Yahoo Group Archive:
GPSL (2009 — 2010)

Yahoo Group summary: Great Plains Super Launch

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Date span: 2009-01-01 through 2010-12-30

Source WARC: gpsl.HpWvsYD.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-04-11T12-44-24Z-5e3769

Messages included in this PDF: 4242

Message records with no body available in the source archive: 1

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

4873. 2008 ARHAB Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-01 14:38:51 UTC
From: Ralph Wallio, W0RPK
Topic: 4873 Message: 4873

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2008 ARHAB Flights
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TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4874. Re: [GPSL] 2008 ARHAB Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-01 15:35:30 UTC
From: L. Paul Verhage
Topic: 4873 Message: 4874
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4875. Cell Phone Battery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-01 22:31:12 UTC
From: L. Paul Verhage
Topic: 4875 Message: 4875
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4876. Re: [GPSL] Cell Phone Battery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-02 00:43:58 UTC
From: Joe
Topic: 4875 Message: 4876

now thts very interesting,

I'd love to see a MPPT charger that is tiny and small. has anyone?

Joe WB9SBD & NSS

L. Paul Verhage wrote:

> Office Depot in Topeka is selling an instant cell phone charger by
> Energizer for $2.00. That's 90% off. The great thing about it is
> that it comes with two lithium batteries. That's AA lithium batteries
> for 60% off and it comes with a voltage doubler. The circuit board
> for the voltage doubler is very small and compact. I haven't tested
> to see if it will take more than 3 volts input.
>
> --
> Onwards and Upwards,
> Paul
>

4877. 167 flights this year

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-02 01:02:21 UTC
From: K. Mark Caviezel
Topic: 4877 Message: 4877

167 flights, about 5 were plastic (zero pressure, solar, and super pressure).
THANKS AGAIN to Ralph for keeping the stats on this sport!

I'm wondering, what sort of payload, altitude and price point for a zero pressure floater would be of interest to the ARHABians?

Point of reference: The SNOX 4 balloon was 920 cubic feet, suitable for 12 pounds to about 39k feet and small run production cost about $200, not significantly different in cost from a 2000 g or 3000 g latex balloon. This balloon flew for over 40 hours and over 3300 miles.

If there is interest, I may make a small production run of small ZP floaters.

best regards,

- Mark Caviezel ng0x

--- On Thu, 1/1/09, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:
From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Subject: [GPSL] Digest Number 1272
To: GPSL@yahoogroups.com
Date: Thursday, January 1, 2009, 11:22 AM

Great Plains Super Launch

Great Plains Super Launch

Messages In This Digest (2
Messages)

1a.

2008 ARHAB Flights
From:
Ralph Wallio, W0RPK
1b.

Re: 2008 ARHAB Flights
From:
L. Paul Verhage

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Messages

1a.

2008 ARHAB Flights

Posted by: "Ralph Wallio, W0RPK"
W0RPK@...

Thu Jan 1, 2009 6:38 am (PST)

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TNX es 73 de Ralph Wallio, WØRPK

W0RPK@netINS. net W0RPK@... W0RPK@amsat. org

http://showcase. netins.net/ web/wallio/

Hubbert's Peak - The Mother of all Perfect Storms

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Messages in this topic
(2)

1b.

Re: 2008 ARHAB Flights

Posted by: "L. Paul Verhage"
nearsys@...

near_sys

Thu Jan 1, 2009 7:35 am (PST)

167 flights, pretty cool.

Paul

On Thu, Jan 1, 2009 at 8:38 AM, Ralph Wallio, W0RPK <W0RPK@netins. net>wrote:

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> 100] 29Jul08 NBS-08-04 NV Univ of Nevada - Reno

> 101] 29Jul08 NBS-08-05 NV Univ of Nevada - Reno

> 102] 02Aug08 EOSS-131 MO GPSL2008

> 103] 02Aug08 BASE-28 MO GPSL2008 De Pauw Univ

> 104] 02Aug08 Near Space MO GPSL2008

> 105] 02Aug08 HARP-1 MO GPSL2008 Taylor Univ

> 106] 02Aug08 HARP-2 MO GPSL2008 Taylor Univ

> 107] 02Aug08 Nick Stich-1 MO GPSL2008

> 108] 02Aug08 Nick Stich-2 MO GPSL2008

> 109] 02Aug08 KD4STH MO GPSL2008

> 110] 02Aug08 WB8ELK MO GPSL2008

> 111] 02Aug08 ORB MO GPSL2008

> 112] 02Aug08 TABEL-5 TN

> 113] 08Aug08 WB8ELK IN

> 114] 09Aug08 NSS-46 WI

> 115] 09Aug08 NTBP-16 TX

> 116] 13Aug08 Far Horizons IL Adler Planetarium

> 117] 15Aug08 WB8ELK IN

> 118] 16Aug08 SurfsUp-2 OH

> 119] 20Aug08 HABET LX-100-B IA Iowa State Univ

> 120] 23Aug08 BARA MI

> 121] 23Aug08 BLT-24 TX

> 122] 29Aug08 NOVA-8 UK Cambridge Univ

> 123] 30Aug08 N0BKB/N0ORU #1 IA

> 124] 30Aug08 N0BKB/N0ORU #2 IA

> 125] 31Aug08 HAPB-4 TX

> 126] 01Sep08 TABEL-6 TN

> 127] 11Sep08 BASE-29 IN De Pauw Univ

> 128] 14Sep08 Fox Hunt 30 Netherlands

> 129] 20Sep08 NSTAR 08D IA

> 130] 20Sep08 CP-06 Poland

> 131] 20Sep08 CP-07 Poland

> 132] 20Sep08 BRAQ 2008-6 PQ

> 133] 27Sep08 KU XBS KD4STH KS Univ of Kansas

> 134] 28Sep08 SABRE-4 SK

> 135] 30Sep08 HARP84 IN Taylor Univ

> 136] 04Oct08 EOSS-132 CO

> 137] 04Oct08 FAR HORIZONS 13 IL

> 138] 04Oct08 ANSR-45 AZ

> 139] 11Oct08 SOB-VI AL

> 140] 11Oct08 Surfs Up 3 OH

> 141] 11Oct08 Exp Post 632 OH

> 142] 11Oct08 HARP86 IN Taylor Univ

> 143] 16Oct08 BASE-30 IN De Pauw Univ

> 144] 18Oct08 KU XBS KD4STH KS Univ of Kansas

> 145] 18Oct08 WSU HIBALL IN Wright State Univ

> 146] 18Oct08 ANSP-2 TX

> 147] 19Oct08 NSV MO

> 148] 25Oct08 UAH AL Univ of Alabama - Huntsville

> 149] 26Oct08 KWU KS Kansas Wesleyan Univ

> 150] 29Oct08 HABET LX112 IA Iowa State Univ

> 151] 01Nov08 UAH AL Univ of Alabama Huntsville

> 152] 01Nov08 UAH AL Univ of Alabama Huntsville

> 153] 01Nov08 BOR0811A MT Montana State Univ

> 154] 08Nov08 ANSR46 AZ

> 155] 15Nov08 EOSS-133 CO

> 156] 15Nov08 EOSS-134 CO

> 157] 15Nov08 LASA-3 ON

> 158] 19Nov08 ASTRO-10 OK Oklahoma State Univ

> 159] 20Nov08 BASE-31 IN De Pauw Univ

> 160] 22Nov08 ANSR-47 AZ

> 161] 22Nov08 ASTR0-11 OK Oklahoma State Univ

> 162] 01Dec08 NOVA-9 UK Cambridge Univ

> 163] 05Dec08 LPSU-10 OR Portland State Univ

> 164] 06Dec08 VWS-7 VA

> 165] 11Dec08 ASTRO-12 OK Oklahoma State Univ

> 166] 12Dec08 HABET L116A IA Iowa State Univ

> 167] 13Dec08 WB8ELK OZ- AL UAH Ozone hitchhiker

>

> TNX es 73 de Ralph Wallio, WØRPK

> W0RPK@netINS. net W0RPK@... W0RPK@amsat. org

> http://showcase. netins.net/ web/wallio/

> Hubbert's Peak - The Mother of all Perfect Storms

>

>

>

>

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> ------------ --------- --------- ------

>

> Yahoo! Groups Links

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Onwards and Upwards,

Paul

Back to top

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|

Reply via web post

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(2)

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4878. Cell Phone charger

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-02 05:45:14 UTC
From: L. Paul Verhage
Topic: 4878 Message: 4878
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4879. Re: 167 flights this year

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-02 16:55:20 UTC
From: Mark
Topic: 4877 Message: 4879

167 flights, about 5 were plastic (zero pressure, solar, and super pressure).
THANKS AGAIN to Ralph for keeping the stats on this sport!

I'm wondering, what sort of payload, altitude and price point for a zero pressure floater would be of interest to the ARHABians?

Point of reference: The SNOX 4 balloon was 920 cubic feet, suitable for 12 pounds to about 39k feet and small run production cost about $200, not significantly different in cost from a 2000 g or 3000 g latex balloon. This balloon flew for over 40 hours and over 3300 miles.

If there is interest, I may make a small production run of small ZP floaters.

best regards,

- Mark Caviezel ng0x

4880. Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-04 18:46:15 UTC
From: Mark Conner
Topic: 4880 Message: 4880
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4881. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-04 19:08:36 UTC
From: Joe
Topic: 4880 Message: 4881

Hi mark,

and i think it's a awesome mode,

Mark Conner wrote:

> While off on a Google rabbit trail I started looking into
> Hellschrieber. Has anyone posted to a website some details on
> beacons, esp. those encoding a GPS position? Since it's an on-off
> quasi-analog mode, it looks like it'd be really simple. I even found
> a discussion where someone made a simple encoder using a $4 PICAXE
> chip. Any balloon-specific pages posted? Google shows me some
> flights that were executed, but not anything for detailed write-ups on
> the beacon.
>
> 73 de Mark N9XTN
>

4882. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-04 21:13:04 UTC
From: Barry L. Lankford
Topic: 4880 Message: 4882

Search this forum and the other Yahoo ARHAB ballooning forums (Balloon_sked, Balloonatics, Ballooning, etc.) for posts from WB8ELK. Bill has been doing this for some time, using an encoder of his own design based on the Cypress PSoC Mixed signal mode processor. It also does RTTY (FSK and AFSK) and DominoEX. He may be flying such a payload next Saturday (1/10/09) if the weather cooperates. I just posted a similar reply to a question about Hellscreiber on the Opentracker forum, relating Bill's recent flights using Hellscreiber. It has a few more details on his payload.

Barry N4MSJ

Mark Conner wrote:
> While off on a Google rabbit trail I started looking into Hellschrieber.
> Has anyone posted to a website some details on beacons, esp. those encoding
> a GPS position? Since it's an on-off quasi-analog mode, it looks like it'd
> be really simple. I even found a discussion where someone made a
> simple encoder using a $4 PICAXE chip. Any balloon-specific pages posted?
> Google shows me some flights that were executed, but not anything for
> detailed write-ups on the beacon.
>
> 73 de Mark N9XTN
>

4883. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-04 21:37:23 UTC
From: L. Paul Verhage
Topic: 4880 Message: 4883
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4884. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-05 05:00:21 UTC
From: Mark Conner
Topic: 4880 Message: 4884
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4885. Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-05 19:39:27 UTC
From: Arnie Grubbs
Topic: 4880 Message: 4885

Check out this site...

http://web.mit.edu/bgelb/www/balloon/hfbeacon/

I would bet that they would have some info for you if you
write the guys that put up the page.

73 - Arnie KA0NCR

Posted by: "Mark Conner" mconner1@...
> n9xtn
> Date: Sun Jan 4, 2009 9:00 pm ((PST))
>
> I was hoping for a webpage with some more details
> (schematic, block
> diagrams, etc). But I imagine it's a little like
> documenting some of my
> balloon stuff - probably should do it some day to share
> with others, but
> it's never high enough on my 'round tuit' list.
>
> 73 de Mark N9XTN
>
> On Sun, Jan 4, 2009 at 15:13, Barry L. Lankford
> <BarryL@...> wrote:
>
> > Search this forum and the other Yahoo ARHAB ballooning
> forums
> > (Balloon_sked, Balloonatics, Ballooning, etc.) for
> posts from WB8ELK. Bill
> > has been doing this for some time, using an encoder of
> his own design based
> > on the Cypress PSoC Mixed signal mode processor. It
> also does RTTY (FSK
> > and AFSK) and DominoEX. He may be flying such a
> payload next Saturday
> > (1/10/09) if the weather cooperates. I just posted a
> similar reply to a
> > question about Hellscreiber on the Opentracker forum,
> relating Bill's
> > recent flights using Hellscreiber. It has a few more
> details on his
> > payload.
> >
> > Barry N4MSJ
> >

> > Mark Conner wrote:
> > > While off on a Google rabbit trail I started
> looking into Hellschrieber.
> > > Has anyone posted to a website some details on
> beacons, esp. those
> > encoding
> > > a GPS position? Since it's an on-off
> quasi-analog mode, it looks like
> > it'd
> > > be really simple. I even found a discussion
> where someone made a
> > > simple encoder using a $4 PICAXE chip. Any
> balloon-specific pages
> > posted?
> > > Google shows me some flights that were executed,
> but not anything for
> > > detailed write-ups on the beacon.
> > >
> > > 73 de Mark N9XTN
> > >
> >--

4886. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-05 20:30:09 UTC
From: wb8elk@aol.com
Topic: 4880 Message: 4886

Hi Mark,

I'm working on the latest version of my Hellscreiber Balloon board....it also does CW, RTTY and DominoEX.

It's working great on my workbench and now has a GPS module mounted directly on the board....it's a new one made by a company called Inventek and is less than the size of a quarter....so far it's picking up 9 satellites inside my house. It's a SIRF III chipset but as far as I know it may be the only SIRF III chipset that works above 60k feet...they have modified the code to work up to 135,000 feet specifically for balloon flights.

I'll be flying it this weekend.

I'll be posting my Hellscreiber details (as well as the other modes) on my website in a few days under the PROJECTS tab.

http://www.wb8elk.com (http://www.wb8elk.com)

I'm currently doing everything with the Cypress PSoC microcontroller...but also have it working on the Arduino board (Atmel AVR Mega168 with special bootloader that allows serial programming without the programming dongle). I'll post both versions this week on the website.

- Bill WB8ELK
**********New year...new news. Be the first to know what is making headlines. (http://www.aol.com/?ncid=emlcntaolcom00000026)

4887. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-05 20:46:29 UTC
From: Mark Conner
Topic: 4880 Message: 4887
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4888. Re: [GPSL] Hellschreiber beacons for balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-05 23:22:29 UTC
From: Joe
Topic: 4880 Message: 4888

what freq you gonna do bill, something that may support propagation?

wb8elk@... wrote:

> Hi Mark,
>
> I'm working on the latest version of my Hellscreiber Balloon
> board....it also does CW, RTTY and DominoEX.
>
> It's working great on my workbench and now has a GPS module mounted
> directly on the board....it's a new one made by a company called
> Inventek and is less than the size of a quarter....so far it's picking
> up 9 satellites inside my house. It's a SIRF III chipset but as far as
> I know it may be the only SIRF III chipset that works above 60k
> feet...they have modified the code to work up to 135,000 feet
> specifically for balloon flights.
>
> I'll be flying it this weekend.
>
> I'll be posting my Hellscreiber details (as well as the other modes)
> on my website in a few days under the PROJECTS tab.
>
> http://www.wb8elk.com
>
>
> I'm currently doing everything with the Cypress PSoC
> microcontroller...but also have it working on the Arduino board (Atmel
> AVR Mega168 with special bootloader that allows serial programming
> without the programming dongle). I'll post both versions this week on
> the website.
>
> - Bill WB8ELK
>
>
>
> ---
> New year...new news. Be the first to know what is making headlines
> <http://www.aol.com/?ncid=emlcntaolcom00000026>.
>

4889. Re: [GPSL] Hellschreiber beacons for balloons - WB8ELK website link

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 00:18:14 UTC
From: wb8elk@aol.com
Topic: 4889 Message: 4889

Mark and all,

I just updated my website to include a PROJECTS section that will shortly include the Hellscreiber and RTTY transmitter.

http://www.wb8elk.com (http://www.wb8elk.com) click on the PROJECTS link.

Right now it's showing the 434 MHz CW transmitter (both Keyed and AM modulated versions) that uses the SparkFun 8 milliwatt transmitter module controlled by the Arduino Stamp (also available on SparkFun). It's the subject of my next balloon column "Up In The Air" in the Winter 2009 CQ VHF magazine.

The Arduino has a built-in bootloader that allows you to code in C and program it with the free Arduino software using a serial interface (USB or RS-232).

Note that you can key an HF clock oscillator (10m or otherwise) using the same circuit instead of the SparkFun 434 MHz module using a FET or transistor to key the clock oscillator on/off ... no keying transistor necessary if the clock oscillator has an on/off control line.

In the next day or two, I'll post the Hellscreiber and RTTY code using the same circuit.

Also, I'll be posting the details (when I get the chance to clean up the program to make it readable) for the Cypress PSoC multi-mode beacon that does CW, RTTY, Hellscreiber and DominoEX (both SSB and FM modes on any band).

- Bill WB8ELK
**********New year...new news. Be the first to know what is making headlines. (http://www.aol.com/?ncid=emlcntaolcom00000026)

4890. Re: Hellschreiber beacons for balloons - WB8ELK website link

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 05:02:06 UTC
From: Ron Malinowski, Jr.
Topic: 4889 Message: 4890

If someone is interested in building and programming these, I would be interested in buying one. :-) Ron N9QGS

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
> Mark and all,
>
> I just updated my website to include a PROJECTS section that will shortly
> include the Hellscreiber and RTTY transmitter.
>
> _http://www.wb8elk.com_ (http://www.wb8elk.com) click on the PROJECTS
> link.
>

4891. Re: Hellschreiber beacons for balloons - WB8ELK website link

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 05:02:06 UTC
From: Ron Malinowski, Jr.
Topic: 4889 Message: 4891

If someone is interested in building and programming these, I would be interested in buying one. :-) Ron N9QGS

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
> Mark and all,
>
> I just updated my website to include a PROJECTS section that will shortly
> include the Hellscreiber and RTTY transmitter.
>
> _http://www.wb8elk.com_ (http://www.wb8elk.com) click on the PROJECTS
> link.
>

4892. Re: [GPSL] Re: Hellschreiber beacons for balloons - WB8ELK website link

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 06:07:26 UTC
From: wb8elk@aol.com
Topic: 4889 Message: 4892

Hi Ron,

I'll be making up boards as kits for those interested as soon as I do a couple of test flights....I can offer them as assembled and tested too....I'll let you know when I have it finalized.

- Bill WB8ELK

**********New year...new news. Be the first to know what is making headlines. (http://www.aol.com/?ncid=emlcntaolcom00000026)

4893. 2008 Taylor University flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 18:12:58 UTC
From: Ralph Wallio, W0RPK
Topic: 4893 Message: 4893

Thanks Jeff --

You folks have a significant flight program that we would like to regularly include in our ARHAB
Launch Announcements, Records and flight counts. Your information adds 7 flights for a collective
total of 174 known ARHAB flights which break down to 96 flights by educational institutions and 78
flights by Ham Radio groups.

I noted your posting to the GPSL list dated 01Oct08 and, after returning home from a vacation,
responded with questions on 08Oct08 about launch locations and downlink information. I did not
receive a response.

You are welcome to post flight announcements directly to me, to GPSL and/or to Balloon_Sked. We
need more precise launch location and downlink information than you have included. It would help us
in several ways if you folks supported a Taylor University HAB web site.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Jeff Dailey" <jfdailey@...>
To: <W0RPK@...>
Sent: Tuesday, January 06, 2009 11:01

Ralph

Taylor had seven launchs that you missed on your totals they were sent to the GPSL list on 10/1/08

Taylor launchs in October:
9/30 HARP84 10:00am Launch site IN.
10/10 HARP85 7:30pm Night flight Launch site IN.
10/11 HARP86 10:00am Astronomy1 Launch site IN.
10/24 CCLI1 10:00am Launch site IN.
10/25 CCLI2 10:00am Launch site AR.
10/30 CCLI3 10:00am Launch site WA.
11/1 CCLI4 10:00am Launch site MN.

All flights had APRS on KB9ZNZ-1 or 11

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

4894. 2008 Darwin Award: Pining Away

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-06 23:48:42 UTC
From: Mike Manes
Topic: 4894 Message: 4894

For youse guys plagued by forested recovery sites, a keen tip:

http://darwinawards.com/darwin/darwin2008-01.html

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4895. Re: [GPSL] 2008 Darwin Award: Pining Away

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-07 00:22:37 UTC
From: Harry M
Topic: 4894 Message: 4895

Hmmmmmm!

I wonder if this article was pointed toward anyone in particular due to a recent recovery pic showing axe wielding balloonatics?

;~)

73 Harry
KC5TRB

> Subject: [GPSL] 2008 Darwin Award: Pining Away

4896. Re: [GPSL] 2008 Darwin Award: Pining Away

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-07 02:12:03 UTC
From: BASE
Topic: 4894 Message: 4896

Harry,

You are the King of rescuing payloads from trees!

Howard

--- On Tue, 1/6/09, Harry M <hhm_74115@...> wrote:
From: Harry M <hhm_74115@cox.net>
Subject: Re: [GPSL] 2008 Darwin Award: Pining Away
To: GPSL@yahoogroups.com
Date: Tuesday, January 6, 2009, 7:22 PM

Hmmmmmm!

I wonder if this article was pointed toward anyone in particular due to a
recent recovery pic showing axe wielding balloonatics?

;~)

73 Harry
KC5TRB

> Subject: [GPSL] 2008 Darwin Award: Pining Away

4897. Re: [GPSL] 2008 Darwin Award: Pining Away

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-07 04:14:34 UTC
From: Harry M
Topic: 4894 Message: 4897

Just a Pawn moving across the board!

:)

73 Harry

> You are the King of rescuing payloads from trees!

4898. BASE 32 - Go for Saturday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-08 18:44:01 UTC
From: BASE
Topic: 4898 Message: 4898

Dear friends,

BASE 32 is go for flight on Saturday, 10 January. Launch from DePauw in Greencastle, IN at 16:00 UTC. Landing projected near the Indiana/Ohio border south of Richmond, IN around 18:00 UTC. APRS beacon, W9YJ-11 on 144.39 MHz. Primary downlink on 900 MHz Spread Spectrum. Experiments selected and developed by students that started class this past Monday. We'll be flying video cameras, solar cells, phototransistors with polarizers, and sample of environmentally friendly fluids that may be used on future flights.

Launch day forecast features temperatures near 0 Celsius (32 F) with winds of 30 km/hr (18 mi/hr).

Howard

4899. Re: [Ballooning] BASE 32 - Saturday looking bad

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-10 03:26:04 UTC
From: BASE
Topic: 4898 Message: 4899

Dear friends,

The weather in Indiana and Ohio is also forecast to be bad tomorrow. Freezing rain and sleet are the nasty part of the forecast.

My students will make final decision at 1400 UTC.

Howard

--- On Thu, 1/8/09, BASE <basedepauw@...> wrote:
From: BASE <basedepauw@...>
Subject: [Ballooning] BASE 32 - Go for Saturday
To: "Ballooning Group" <ballooning@yahoogroups.com>, "Great Plains Superlaunch" <gpsl@yahoogroups.com>, "W0RPK Ralph Wallio" <W0RPK@...>
Cc: "Harry Brooks" <hbrooks@...t>
Date: Thursday, January 8, 2009, 1:44 PM

Dear friends,

BASE 32 is go for flight on Saturday, 10 January. Launch from DePauw in Greencastle, IN at 16:00 UTC. Landing projected near the Indiana/Ohio border south of Richmond, IN around 18:00 UTC. APRS beacon, W9YJ-11 on 144.39 MHz. Primary downlink on 900 MHz Spread Spectrum. Experiments selected and developed by students that started class this past Monday. We'll be flying video cameras, solar cells, phototransistors with polarizers, and sample of environmentally friendly fluids that may be used on future flights.

Launch day forecast features temperatures near 0 Celsius (32 F) with winds of 30 km/hr (18 mi/hr).

Howard

4900. BASE 32 - postponed till 14 January

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-10 15:12:21 UTC
From: BASE
Topic: 4900 Message: 4900

Dear friends,

Poor road conditions in the landing zone have forced us to postpone BASE 32 until Tuesday, January 14 at 16 UTC.

Current wind predictions support a launch from Northmont Schools north of Crawfordsville with the landing near Rushville.

Thanks for your support,
Howard

4901. Re: [Ballooning] BASE 32 - postponed till 13 January Correction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-10 16:30:25 UTC
From: BASE
Topic: 4900 Message: 4901

Dear Friends,

BASE 32 will be on Tuesday, which is 13 January.

Sorry for the confusion.

Howard

--- On Sat, 1/10/09, BASE <basedepauw@...> wrote:
From: BASE <basedepauw@...>
Subject: [Ballooning] BASE 32 - postponed till 14 January
To: "Ballooning Group" <ballooning@yahoogroups.com>, "Great Plains Superlaunch" <gpsl@yahoogroups.com>, "W0RPK Ralph Wallio" <W0RPK@...>, "Harry Brooks" <hbrooks@...>
Date: Saturday, January 10, 2009, 10:12 AM

Dear friends,

Poor road conditions in the landing zone have forced us to postpone BASE 32 until Tuesday, January 14 at 16 UTC.

Current wind predictions support a launch from Northmont Schools north of Crawfordsville with the landing near Rushville.

Thanks for your support,

Howard

4902. NASA deploys huge clingfilm strato-pump kin over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-12 05:53:42 UTC
From: Mike Manes
Topic: 4902 Message: 4902

Pretty neat story about NASA's mondo superpressure balloon test flight, ultimately capable of 2200 lb neck loads up to 110K'. And it floats there without having to dump ballast. The hard part is making the envelope strong enough to tolerate overpressure without making it a lead balloon.

http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/

73 de Mike W5VSI, EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4903. NASA super pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-12 19:42:50 UTC
From: K. Mark Caviezel
Topic: 4903 Message: 4903

Seems odd that they are test flying a super pressure balloon in a continuously illuminated environment.

- Mark

--- On Mon, 1/12/09, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:
From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Subject: [GPSL] Digest Number 1279
To: GPSL@yahoogroups.com
Date: Monday, January 12, 2009, 1:01 PM

Great Plains Super Launch

Great Plains Super Launch

Messages In This Digest (1
Message)

1.

NASA deploys huge clingfilm strato-pumpkin over Antarctic • The
From:
Mike Manes

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Message

1.

NASA deploys huge clingfilm strato-pumpkin over Antarctic • The

Posted by: "Mike Manes"
mrmanes@...

w5vsi2002

Sun Jan 11, 2009 9:53 pm (PST)

Pretty neat story about NASA's mondo superpressure balloon test flight,

ultimately capable of 2200 lb neck loads up to 110K'. And it floats there

without having to dump ballast. The hard part is making the envelope strong

enough to tolerate overpressure without making it a lead balloon.

http://www.theregis ter.co.uk/ 2009/01/09/ nasa_pumpkin_ balloon_over_ antarctic/

73 de Mike W5VSI, EOSS

--

Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

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4904. Re: [GPSL] NASA super pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-13 01:21:32 UTC
From: Luis Eduardo Pacheco
Topic: 4903 Message: 4904

Good point. Here in my country we have a saying. The more accurate translation is that "the better is good's foe".

After the launch failure (due to a bad inflation tube) occured during the Fort Sumner fall campaign the next opportunity was to launch from McMurdo in the 2008/2009 campaign. Taking account of the past failures, the fact of having flying the thing for more than 10 days -althought it's not the ideal environment test- become fresh air for the program. Really better than to not to fly at all ¿isn't?.

Greetings from the south of the blue ball.
--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en la investigación cientifica, el campo militar y la actividad aeroespacial

2009/1/12, K. Mark Caviezel <kmcaviezel@...>:
>
>
> Seems odd that they are test flying a super pressure balloon in a
> continuously illuminated environment.
>
> - Mark
>
>
>
> --- On Mon, 1/12/09, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:
> From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> Subject: [GPSL] Digest Number 1279
> To: GPSL@yahoogroups.com
> Date: Monday, January 12, 2009, 1:01 PM
>
>
>
> Great Plains Super Launch
>
> Messages In This Digest (1 Message)
> 1. NASA deploys huge clingfilm strato-pumpkin over Antarctic • The From:
> Mike Manes
> View All Topics | Create New Topic
> Message
> 1.
> NASA deploys huge clingfilm strato-pumpkin over Antarctic • The
> Posted by: "Mike Manes" mrmanes@... w5vsi2002

> Sun Jan 11, 2009 9:53 pm (PST)
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> ultimately capable of 2200 lb neck loads up to 110K'. And it floats there
> without having to dump ballast. The hard part is making the envelope strong
> enough to tolerate overpressure without making it a lead balloon.
>
> http://www.theregis ter.co.uk/ 2009/01/09/ nasa_pumpkin_ balloon_over_
> antarctic/
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> 73 de Mike W5VSI, EOSS
> --
> Mike Manes mrmanes@gmail. com Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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4905. BASE 32 flight complete

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-13 22:00:59 UTC
From: BASE
Topic: 4905 Message: 4905

Dear all,

The BASE 32 flight was a success. Launch at 16:20 UTC from DePauw campus (39.64 North, 86.86 West) by a rookie crew in 20 mph winds. Average ascent rate of 1470 feet/min. Burst at 17:18 UTC 85,000 feet. Landing at 18:02 UTC at 39.774 degrees North and 85.055 degrees West longitude. Flight heading 84 degrees from launch to landing. Great circle distance 97 miles.

Recovery made by Justin Munger, W1IX.

Excellent realtime flight data from student experiments.

Details to follow on the website: www.depauw.edu/acad/physics/base

BASE 33 is still on schedule for Saturday 17 January.

Howard

4906. Re: [GPSL] NASA deploys huge cl ingfilm strato-pumpkin over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 03:23:24 UTC
From: Joe
Topic: 4902 Message: 4906

has anyone heard how this mission has progressed?

Is it still up or what?

Joe NSS

Mike Manes wrote:

>Pretty neat story about NASA's mondo superpressure balloon test flight,
>ultimately capable of 2200 lb neck loads up to 110K'. And it floats there
>without having to dump ballast. The hard part is making the envelope strong
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>
>http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
>
>73 de Mike W5VSI, EOSS
>
>

4907. Re: [GPSL] NASA deploys huge clingfilm strato-pumpki n over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 09:14:59 UTC
From: Luis Eduardo Pacheco
Topic: 4902 Message: 4907

As far as today the ULDB is traveling over the East Antarctic Plateau at an altitude of 110.700 feet. According to NASA sources both altitude and differential pressure have continued to remain steady.

The flying pumpkin has been 16 days until now aloft.

Greetings
--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en la investigación cientifica, el campo militar y la actividad aeroespacial

2009/1/14, Joe <nss@...>:
>
> has anyone heard how this mission has progressed?
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> Is it still up or what?
>
>
> Joe NSS
>
>
> Mike Manes wrote:
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> http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
> >
> >73 de Mike W5VSI, EOSS
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4908. Re: [GPSL] NASA deploys huge clingfilm strato-pumpki n over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 09:25:38 UTC
From: Luis Eduardo Pacheco
Topic: 4902 Message: 4908

A first hand -near real time- source is the CSBF web site for the campaign
at

http://www.csbf.nasa.gov/antarctica/ice0809.htm

Greetings
--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en
la investigación cientifica, el campo militar y la actividad aeroespacial

2009/1/14, Joe <nss@...>:
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> http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
> >
> >73 de Mike W5VSI, EOSS
>
>
>

4909. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic ☐ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 13:06:25 UTC
From: nss@mwt.net
Topic: 4902 Message: 4909

So cool looks like it's been up for 17 days and still flying

Yeah!! way to go!

> A first hand -near real time- source is the CSBF web site for the campaign
> at
>
> http://www.csbf.nasa.gov/antarctica/ice0809.htm
>
> Greetings
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> Luis Eduardo Pacheco
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>>
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>>
>>
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>> >
>> http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
>> >
>> >73 de Mike W5VSI, EOSS
>>
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>>

>

4910. Re: [GPSL] NASA deploys huge clingfilm strato-pumpki n over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 14:06:56 UTC
From: Luis Eduardo Pacheco
Topic: 4902 Message: 4910

An Antarctic mission -as correctly pointed another person in this same list- is a tricky flight for a superpressure because the balloon receives 24 hours of sunlight plus the reflection from the snow surface. No night-day transitions. As a comparation a well ballasted zero pressure balloon cruised three times around the pole duirng the record braking flight of 42 days in 2004. See it at http://stratocat.com.ar/fichas-e/2004/MCM-20041216.htm

Nevertheless, the succesfull flight is a lot of fresh air for the project after several failures in the past. Hope this new design overcome the past glitches and at last NASA would acomplish the 100-days-big-payload-no ballast-at-mid-latitudes- goal for the ULDB.

Best regards
--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en la investigación cientifica, el campo militar y la actividad aeroespacial

2009/1/14, nss@... <nss@mwt.net>:
>
> So cool looks like it's been up for 17 days and still flying
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> Yeah!! way to go!
>
>
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> > A first hand -near real time- source is the CSBF web site for the
> campaign
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> >
> > 2009/1/14, Joe <nss@...>:
> >>

> >> has anyone heard how this mission has progressed?
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4911. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic ☐ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 14:28:01 UTC
From: nss@mwt.net
Topic: 4902 Message: 4911

Luis,

You seem to be well connected with these missions down there. Do you have anything to do with them. Or simply an interested by-stander like most of us?

Joe WB9SBD
Near Space Sciences

> An Antarctic mission -as correctly pointed another person in this same
> list-
> is a tricky flight for a superpressure because the balloon receives 24
> hours
> of sunlight plus the reflection from the snow surface. No night-day
> transitions. As a comparation a well ballasted zero pressure balloon
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> three times around the pole duirng the record braking flight of 42 days in
> 2004. See it at http://stratocat.com.ar/fichas-e/2004/MCM-20041216.htm
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> Nevertheless, the succesfull flight is a lot of fresh air for the project
> after several failures in the past. Hope this new design overcome the past
> glitches and at last NASA would acomplish the 100-days-big-payload-no
> ballast-at-mid-latitudes- goal for the ULDB.
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> Best regards
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> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar
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> la investigaci?n cientifica, el campo militar y la actividad aeroespacial
>
> 2009/1/14, nss@... <nss@...>:
>>
>> So cool looks like it's been up for 17 days and still flying
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>> Yeah!! way to go!
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>>
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>> > A first hand -near real time- source is the CSBF web site for the
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>> > at
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4912. Re: [GPSL] NASA deploys huge clingfilm strato-pumpki n over Antarctic • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 14:31:12 UTC
From: Luis Eduardo Pacheco
Topic: 4902 Message: 4912

The later... I'm in South America, more preciselly Argentine Republic.

I'm a kind of "balloon-freak" :-)

2009/1/14, nss@... <nss@...>:
>
> Luis,
>
> You seem to be well connected with these missions down there. Do you have
> anything to do with them. Or simply an interested by-stander like most of
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>
> Joe WB9SBD
> Near Space Sciences
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> > ballast-at-mid-latitudes- goal for the ULDB.
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> > Best regards
> > --
> > Luis Eduardo Pacheco
> > StratoCat - http://stratocat.com.ar

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> > 2009/1/14, nss@... <nss@...>:
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Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
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4913. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic ☐ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 14:39:15 UTC
From: Dan Bowen
Topic: 4902 Message: 4913

Yes, no day/night transitions would sure be nice! That's of course what limits our amateur ZP flights. Have to drop a lot of ballast at sunset. Our SNOX series had enough battery power to last 5 days, but the system had to drop all 6lbs of ballast on the first sunset. Amateurs need more data publicized on this subject, ZP balloons on multi-day flights don't need to be million-dollar missions, we did 5 of them for about $400 a mission, with $200 polyethylene 920 cu ft ZP balloons from Global Western, and hf transmitter/flight computer made by our team WA4ADG, KJ4Z and K2VOL. Now with FindMeSpot, you don't even have to use a worldwide network of hf tracking stations as we did, though telemetry won't go over findmespot. We intend to release our data for others to learn from, though we'll probably wait till we land on dry ground in Europe, or are sure we're done trying. But to those waiting for the secret formula, we've done lots of meticulous tests on the ground and many in the air to perfect our design, and still this kind of system doesn't have a simple recipe. After crossing 90% of the Atlantic, we are left with more unknown variables than we ever thought possible in the beginning. I think amateurs can master small ZP flight, but I believe it will require a lot more ground tests and more sensors on the balloon envelope itself to truly understand what is going on with the balloon envelope itself.

Thanks,
Dan Bowen
UTARC / Spirit of Knoxville

On Jan 14, 2009, at 8:06 AM, nss@... wrote:

> So cool looks like it's been up for 17 days and still flying
>
> Yeah!! way to go!
>
> > A first hand -near real time- source is the CSBF web site for the
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> > at
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> > Luis Eduardo Pacheco
> > StratoCat - http://stratocat.com.ar
> > Proyecto de recopilación histórica sobre el uso de globos estratos
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4914. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic Â☐ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 15:24:07 UTC
From: nss@mwt.net
Topic: 4902 Message: 4914

Just a note of a test we've been running up here.

Like Dan we too may try this year, if things get better financially here for me.

But our design we too want to keep secret till we make it across also, but it is very different than any other projects the rest long flight gang here has tried.

The heart was,, or i should say IS still a latex balloon.

I know everyone says it'l rott too soon,, Man I know that what everyone says, even the maker of the balloons,, but i beg to differ..

I have balloon shards from our first flight of 20 years ago,, it's yes badly discolored,, it's turing Pink of all colors, but it is still tough as hell! You can stretch it like crazy,, or make a bubble and squeeze it till it's almost transparant, and it still won't pop.

And a test that is into it's 6th week,

I have a 5/8ths wave vert made from alunmum fencing wire tethered out back, hung by a ta 300.

it's gone through some nasty winds and snow storms, but right now it'sa still flying up there,, kinda fun too! this weekend will be the 6th week it's been airborne.

soo,,,

Ok, Rodger,, are you on this list? I've been e mailing you for a week or so and no bounce but no reply either..

> Yes, no day/night transitions would sure be nice! That's of course
> what limits our amateur ZP flights. Have to drop a lot of ballast at
> sunset. Our SNOX series had enough battery power to last 5 days, but
> the system had to drop all 6lbs of ballast on the first sunset.
> Amateurs need more data publicized on this subject, ZP balloons on
> multi-day flights don't need to be million-dollar missions, we did 5
> of them for about $400 a mission, with $200 polyethylene 920 cu ft ZP
> balloons from Global Western, and hf transmitter/flight computer made
> by our team WA4ADG, KJ4Z and K2VOL. Now with FindMeSpot, you don't
> even have to use a worldwide network of hf tracking stations as we
> did, though telemetry won't go over findmespot. We intend to release
> our data for others to learn from, though we'll probably wait till we
> land on dry ground in Europe, or are sure we're done trying. But to

> those waiting for the secret formula, we've done lots of meticulous
> tests on the ground and many in the air to perfect our design, and
> still this kind of system doesn't have a simple recipe. After
> crossing 90% of the Atlantic, we are left with more unknown variables
> than we ever thought possible in the beginning. I think amateurs can
> master small ZP flight, but I believe it will require a lot more
> ground tests and more sensors on the balloon envelope itself to truly
> understand what is going on with the balloon envelope itself.
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> Thanks,
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>> > 2009/1/14, Joe <nss@...>:
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>> >> has anyone heard how this mission has progressed?
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>> >> http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
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>> >> >73 de Mike W5VSI, EOSS
>> >>
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>

4915. Re: [GPSL] NASA deploys huge clingfilm str ato-pumpkin over Antarctic Â• The .. .

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 19:33:04 UTC
From: wb8elk@aol.com
Topic: 4915 Message: 4915

Hi Joe and Dan and all,

I'm going to go a different approach and my designs and test results will be Open-Source on my website (my New Year's resolution is to work on that more frequently - I've added a Projects section which will have my designs on them).

I've done quite a number of zero pressure flights over the years but all but a flight with Global Western's 299 cubic footer were quite large (56k cubic feet and up).

I too have an HF transmitter design that's doing well in flight tests...next flight will be this weekend (HF transmitter design, but this week I'm putting it on 2m to make the antenna short to keep ozonesonde folks happy during launch). I'll be posting that info on my website under the Projects tab in about a week after the next flight testing is done.

My trans-Atlantic attempts will begin in February....using Global Western's small ZP envelope. I also may try a valved latex balloon with ballast to see how far I can get with that as well and plan to float that around 60k feet....Joe is right....at sea level, a latex balloon can last quite a while...although humidity and heat can really add to the degradation during the Summer, so Winter is a good time to test that out. The UV environment is much worse in the stratosphere so degradation occurs much quicker than at sea level....so as long as you keep your latex balloon flying below the tropopause, I believe it possibly may last a day or two or more in flight. Most of my long duration latex flights (up to 21 hours) have been at night. Space Data regularly flies 8 hour latex missions during the daytime...but they have a special UV-resistant formulation in their custom-made latex balloons that they manufacture in-house. I don't believe they offer them to the public.

Of course, the ideal place to fly a multi-day latex flight is the exact opposite of that Superpressure balloon in the Antarctic...you'd want to fly a multi-day latex balloon in the Arctic now with continuous darkness.

- Bill WB8ELK

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4916. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic Ã□â□¢ The ...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-14 19:59:55 UTC
From: nss@mwt.net
Topic: 4915 Message: 4916

Hi Bill,

My design, I'll probably share, as soon as i get the Ok to do so from
where i got it from.

The original agreement i had with him was it was to be kept a secret.

But if he allows me to release it, i probably will i just don't have
again the time this winter to do this balloon.

> Hi Joe and Dan and all,
>
> I'm going to go a different approach and my designs and test results
> will
> be Open-Source on my website (my New Year's resolution is to work on that
> more frequently - I've added a Projects section which will have my designs
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creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=De
> cemailfooterNO62)
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4917. Solarballoon discussion group

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-15 00:47:15 UTC
From: solarballoons
Topic: 4917 Message: 4917

Hello. I'd like to invite everyone to the Yahoo discussion group called "Solarballoons". This group is for people interested in using the sun's heat to generate lift in balloons. Interests ranges from science fair, recreation, photography, weather tracking, and research. Spam and inapropriate activities are not tolerated. We look forward to seeing you at "Solarballoons".
Click to join solarballoons
(http://groups.yahoo.com/group/solarballoons/join)

4918. Mars News

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-15 21:52:06 UTC
From: L. Paul Verhage
Topic: 4918 Message: 4918
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4919. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Anta rctic ☐ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 01:54:26 UTC
From: ccccrnr@aim.com
Topic: 4902 Message: 4919

Dan,

balloon data gathered by NASA should be in the NASA lighter-than-air library in Virginia (i think).
It is open to all American Citizens. Since US tax payers paid for the data they have access to it.

I've met some of these scientist. They live this stuff and would like to see it go somewhere useful other than the library shelf.

Some Military info is not public but it is extremely dated and most everything has been repeated by NASA or others.
No it isn't on wikiapedia but then foreign enemies could us it if it was.

There are commercial balloon companies out there, and most of their starting info came from the NASA Library.
But what they develop themselves usually is related to the niche market they chase not what hobbyist chase.

Good to hear from you Dan. Tell everyone in Knoxville hi for me.

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Dan Bowen <dbowen1@...>
To: Gpsl <gpsl@yahoogroups.com>
Sent: Wed, 14 Jan 2009 8:39 am
Subject: Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic ☐ The Register

Yes, no day/night transitions would sure be nice! That's of course what limits our amateur ZP flights. Have to drop a lot of ballast at sunset. Our SNOX series had enough battery power to last 5 days, but the system had to drop all 6lbs of ballast on the first sunset. Amateurs need more data publicized on this subject, ZP balloons on multi-day flights don't need to be million-dollar missions, we did 5 of them for about $400 a mission, with $200 polyethylene 920 cu ft ZP balloons from Global Western, and hf transmitter/flight computer made by our team WA4ADG, KJ4Z and K2VOL. Now with FindMeSpot, you don't even have to use a worldwide network of hf tracking stations as we did, though telemetry won't go over findmespot. We intend to release our data for others to learn from, though we'll probably wait till we land on dry ground in Europe, or are sure we're done trying. But to those waiting for the secret formula, we've done lots of meticulous tests on the ground and many in the air to perfect our design, and still this kind of system doesn't have a simple recipe. After crossing 90% of the Atlantic, we are left with more unknown variables than we ever thought possible in the beginning. I think amateurs

can master small ZP flight, but I believe it will require a lot more ground tests and more sensors on the balloon envelope itself to truly understand what is going on with the balloon envelope itself.

Thanks,

Dan Bowen

UTARC / Spirit of Knoxville

On Jan 14, 2009, at 8:06 AM, nss@... wrote:

So cool looks like it's been up for 17 days and still flying

Yeah!! way to go!

> A first hand -near real time- source is the CSBF web site for the campaign
> at
>
> http://www.csbf.nasa.gov/antarctica/ice0809.htm
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> Greetings
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>> Mike Manes wrote:
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>> >Pretty neat story about NASA's mondo superpressure balloon test flight,
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>> http://www.theregister.co.uk/2009/01/09/nasa_pumpkin_balloon_over_antarctic/
>> >

>> >73 de Mike W5VSI, EOSS
>>
>>
>>
>

4920. CSBF Antarctica Operations

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 03:37:54 UTC
From: Mike Manes
Topic: 4920 Message: 4920

Here's the info for the ULDB superpressure balloon flight. Still at
110L' after 19 days.
73 de Mike W5VSI

http://www.csbf.nasa.gov/antarctica/ice0809.htm
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4921. Re: [GPSL] NASA deploys huge cl ingfilm strato-pumpkin over Antarctic Â• The ...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 03:59:50 UTC
From: Mike Manes
Topic: 4915 Message: 4921

Hey! That's the ticket for a long-duration ARHAB flight! Launch from either pole during the winter. It'll just orbit the pole, and by 'n by, come back near overhead! Go for it, Bill, but be sure to bring yer wollies :=}.
73 de Mike W5VSI

wb8elk@... wrote:
> Hi Joe and Dan and all,
>
> I'm going to go a different approach and my designs and test results
> will be Open-Source on my website (my New Year's resolution is to work
> on that more frequently - I've added a Projects section which will have
> my designs on them).
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> all but a flight with Global Western's 299 cubic footer were quite large
> (56k cubic feet and up).
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> that around 60k feet....Joe is right....at sea level, a latex balloon
> can last quite a while...although humidity and heat can really add to
> the degradation during the Summer, so Winter is a good time to test that
> out. The UV environment is much worse in the stratosphere so degradation
> occurs much quicker than at sea level....so as long as you keep your
> latex balloon flying below the tropopause, I believe it possibly
> may last a day or two or more in flight. Most of my long duration latex
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> 8 hour latex missions during the daytime...but they have a special
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> manufacture in-house. I don't believe they offer them to the public.
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> Of course, the ideal place to fly a multi-day latex flight is the
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> - Bill WB8ELK
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Mike Manes mrmanes@... Tel: 303-979-4899
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4922. Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarctic Â• The ...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 13:11:57 UTC
From: Dan Bowen
Topic: 4915 Message: 4922

Well, Having watched hysplit daily for 2 years now, it would be
possible to get a balloon up to the arctic in 1.5 days, at least from
TN. Then you could just cruise around over to Russia and back!

Thanks,
Dan

On Jan 15, 2009, at 10:59 PM, Mike Manes <mrmanes@...> wrote:

> Hey! That's the ticket for a long-duration ARHAB flight! Launch
> from either
> pole during the winter. It'll just orbit the pole, and by 'n by,
> come back
> near overhead! Go for it, Bill, but be sure to bring yer wollies :=}.
> 73 de Mike W5VSI
>
> wb8elk@... wrote:
>> Hi Joe and Dan and all,
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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4923. Re: [GPSL] NASA deploys huge clingfilm strato-pumpki n over Antarctic Â• The ...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 13:25:46 UTC
From: Luis Eduardo Pacheco
Topic: 4915 Message: 4923

Russia and Back ?

NASA is negotiating since 1998 with them an overflight agreement, but not succeded yet. During a campaign in those years they launched a balloon around the pole from Fairbanks and flew it succesfully around the pole, almost completing a full circle. The next year the agency deployed teams again there and after preparations they where flight ready just waiting for flight clearance from Russia. The authorization was denied and all the operation was cancelled.

Since then the only flight possible around the pole in arctic regions is a summer flight from Svalbard:
http://stratocat.com.ar/fichas-e/2006/LON-20060614.htm which assure not to flight over Russian territory.

Best regards
--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en la investigación cientifica, el campo militar y la actividad aeroespacial

2009/1/16, Dan Bowen <dbowen1@...>:
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> Well, Having watched hysplit daily for 2 years now, it would be
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> > 73 de Mike W5VSI
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4924. multi-day flight over poles Re: [GPSL] NASA deploys huge clingfilm strato-pumpkin over Antarcti

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-16 18:12:01 UTC
From: K. Mark Caviezel
Topic: 4924 Message: 4924

The multi-day SNOX 4 flight from Knoxville to almost Ireland really got me thinking. You could probably better the ARHAB endurance record set by that flight by using an air-filled solar balloon launched in the polar regions. I've had some dialog and interest with Fairbanks, Alaska hams, and some antarctic scientists, but we haven't yet put an effort together.

For those of you who haven't seen it, here is the slow moving launch video of my last solar balloon:
http://www.youtube.com/watch?v=XQfRX3pFnV0
which flew about 400 miles in 14 hours and successfully demonstrated radio-commanded ballast jettisons which raised the float altitude from 52k feet to 55k feet.

The TVNSP group has an identical balloon, but I haven't heard when they're planning to fly it.

Solar balloons are the most finicky to launch, whereas filling and launching a latex balloon can be done at up to 10 mph surface wind, helium filled plastic balloons up to 4-5 mph, I'd suggest maybe 2-3 mph maximum to launch a solar balloon. And unlike a latex balloon that usually climbs at around 1000 fpm, a solar balloon will often depart at 100-200 fpm, so you need to be very careful of the nearest downwind obstacles.

best regards,

- Mark ng0x

4925. BASE 33 completed today

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-18 01:44:03 UTC
From: BASE
Topic: 4925 Message: 4925

Dear friends,

BASE 33 was completed today (up again, down again, home again). We always have a lot of fun, even in the cold and wind.

Launch was exciting by another rookie cred with steady 20 mph winds and occasionally 30+ mph gusts. As we neared fill on the balloon a strong gust jammed the balloon onto a protuding digit on the hand of one of the balancers. Resulting dime sized hole led to controlled released of the 1200 gram balloon envelope and about 300 cubic feet of helium. We brought out our spare 1200 gram balloon and filled again.

Launch at 16:35 UTC from 40.12 N, 86.91 W.
Ascent rate of 1400 fpm
Burst at 17:35 UTC at 84,700 feet.
Landing at 18:15 UTC at 39.83 N, 84.85 W in Richmond,IN.
Downrange path 111 miles at 112 degrees.

Our 900 MHz landing zone team had a solid location via GPS fix. Complicated streets in the area of a shopping mall prevented them from being at the landing point. As they approached the location, the GPS point began to move at about 4 mph before they lost signal. When they arrived at the last fix, they saw no sign of the balloon. Ron, N9QGS, did some DFing on the 146.565 MHz beacon of Justin, W1IX, and had reached an intersection point in an apartment complex. A resident emerged with our payloads. He kept the balloon remnant and we brought the equipment home.

I believe that the intermittent behavior of W9YJ-11 on APRS might have resulted from interference between the DF beacon and the APRS MicroTrak. Due to the high winds, the two radios were located in separate styrofoam boxes that were taped to each other with only two layers of mylar emergency blanket between them.

I know we have talked about separating transmitters on this list before, but ...

As always more details to follow at:

www.depauw.edu/acad/physics/base

Thanks for your support,
Howard

4926. Re: [Balloon_Sked] WB8ELK balloon landing site location has been copied but not recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-18 06:27:16 UTC
From: Mike Manes
Topic: 4926 Message: 4926

Great the the tracking beacons worked so well! BZ! So, ya gonna go fetch it back?
73 de Mike W5VSI, EOSS

wb8elk@... wrote:
> Eddie WD4JEM and Geri K4GMF drove to Toccoa, GA and were able to receive
> the RTTY and Hellscreiber telemetry from the balloon's transmissions and
> decoded the final landing site coordinates. It turns out they
> were receiving it from over 15 miles away. It's located near Grandpa
> Mountain in SC in the Sumter National Forest....it's 4 miles east of
> Longcreek, SC and 6 miles NW of Walhalla, SC.
>
> It's at 1683 feet altitude right on top of the mountain and probably up
> in a tree (topo elevation there is 1600 feet - so possibly 83 feet up in
> a tree!)....there are some roads within a half mile of it and what
> appears to be a dirt road or trail close to the payload. I imagine that
> it will be there for awhile for anyone thinking of doing a nice
> Appalachian Trail kind of hike.
>
> Lat/Lon:
>
> 34d 47.00m
> 83d 10.68m
>
> Alt: 513m
>
> As of 014439z, Seq#399, battery voltage is holding at 8.58 volts, inside
> temperature is 18 deg C and outside Temp is -1 deg. C....satellites
> tracked were 3 at that point but were 5 sats in a later transmission at
> 021037z
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> ---
> *A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
> <http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62>*
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4927. WB8ELK payload still on Grandpa Mountain in SC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-18 07:34:49 UTC
From: wb8elk@aol.com
Topic: 4927 Message: 4927

Hi Mike,

Close but no recovery as yet...since the ground elevation shows 1600 feet and the GPS telemetry is reading 1683 feet....I would assume it's 83 feet up in a tree right at the peak of the mountain...looks like a great RF site....might have to move my hamshack up there!! - Bill WB8ELK

Here's some photos of the new transmitter and flight photos...the new Inventek GPS works great too and works as promised above 60k feet (they claim 135,000 feet)....I've finally found a GPS unit that rivals the venerable GPS-18, the Jupiter and the Motorola units...plus it draws a fraction of the current drain of all of the above units.

http://www.wb8elk.com/oz011709.htm (http://www.wb8elk.com/oz011709.htm)

==========

Eddie WD4JEM and Geri K4GMF drove within 1/4 mile of the payload during the night ... they reported a nearly full-scale signal...in SSB mode they could hear it out to over 15 miles or more... there's a road called Oak Haven Dr. that ended in a forest service type of locked gate (beyond the gate it gets within 200 feet of the payload) but they decided against attempting the hike in the middle of the night ..(Lions and Tigers and Moonshiners, oh my!!)...from the Google Map it looks like a clearing with storage buildings perhaps used by the Forest Service there at Sumter State Park. It looks like there is a hiking trail also that goes within about 50 feet of the payload.

I imagine they might go back in a few weeks when it gets warmer unless someone else braves the cold to retrieve it.

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62)

4928. Re: [GPSL] WB8ELK payload still on Grandpa Mountain in SC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-18 17:12:28 UTC
From: Mark Conner
Topic: 4927 Message: 4928

This does look like a nice GPS engine at $33, especially if it's less susceptible to RFI. Soldering the 18 SMD pads doesn't look too horrible.

For my main payload I'd have to recode some things which use the PGRMV sentence from the Garmins, which I use to determine ascent/descent.

73 de Mark N9XTN

On Sun, Jan 18, 2009 at 01:34, <wb8elk@...> wrote:
>the new
> Inventek GPS works great too and works as promised above 60k feet (they
> claim 135,000 feet)....I've finally found a GPS unit that rivals the
> venerable GPS-18, the Jupiter and the Motorola units...plus it draws a
> fraction of the current drain of all of the above units.
>
>

4929. Re: [GPSL] WB8ELK payload still on Grandpa Mountain in SC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-18 17:15:38 UTC
From: Joe
Topic: 4927 Message: 4929

yeah someone now needs to test this beast with 70 cm ATV signal,

Mark Conner wrote:

>This does look like a nice GPS engine at $33, especially if it's less
>susceptible to RFI. Soldering the 18 SMD pads doesn't look too
>horrible.
>
>For my main payload I'd have to recode some things which use the PGRMV
>sentence from the Garmins, which I use to determine ascent/descent.
>
>73 de Mark N9XTN
>
>On Sun, Jan 18, 2009 at 01:34, <wb8elk@...> wrote:
>
>
>>the new
>>Inventek GPS works great too and works as promised above 60k feet (they
>>claim 135,000 feet)....I've finally found a GPS unit that rivals the
>>venerable GPS-18, the Jupiter and the Motorola units...plus it draws a
>>fraction of the current drain of all of the above units.
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4930. Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-19 14:37:17 UTC
From: Jeff Dailey
Topic: 4930 Message: 4930

Hello

I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
To date 20 units are flying.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

4931. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-19 22:58:10 UTC
From: Joe
Topic: 4930 Message: 4931

any with 70 cm ATV yet?

Jeff Dailey wrote:

>Hello
>
>I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
>To date 20 units are flying.
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4932. Details on the Inventek GPS unit for ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-19 23:01:54 UTC
From: wb8elk@aol.com
Topic: 4932 Message: 4932

Ralph,

You can officially put the Inventek ISMF2-C5.1-V004 GPS module as "passes" for the "GPS receivers vs. 60k feet" list. It worked great (never lost GPS lock) during my last flight to 110,000 feet.

The module itself is very inexpensive but the eval board that Inventek sells is fairly pricey....they have a reasonably priced USB thumb drive eval board version but it's for the F1 and does not bring out serial port B that has the balloon NMEA data on it....therefore, I'm about done with a PC board design that will allow the balloon community to plug and play the board without having to worry about surface mount soldering....I'll offer the board by itself for those with surface mount assembly experience. I'll have that info posted soon on my website: _http://www.wb8elk.com_ (http://www.wb8elk.com) or _http://www.elktronics.com_ (http://www.elktronics.com) I should have that done this week.

The V004 version is the custom firmware build that allows the SIRF III chipset to work up to 135,000 feet....Inventek has one of the SIRF software designers on staff according to info I was told when I called them. Here's the ordering link for the high altitude balloon version:...look for the listing that says "GPS custom firmware" and select the C5.1- V004 version that says, "NMEA 4800, ceiling 135000 ft"

_http://inventeksys.accountsupport.com/store/gps_modules.html_ (http://inventeksys.accountsupport.com/store/gps_modules.html)

This is a very economical unit, to the price point of a disposable system....and they don't mind single quantities.

I flew it with their equally inexpensive active patch antenna (ACTPAT254-01-IP):

_http://inventeksys.accountsupport.com/store/gps_antennas.html_ (http://inventeksys.accountsupport.com/store/gps_antennas.html)

The active patch has a short coax with a UHL connector that plugs directly into the top of the GPS receiver module...you can also run a short PCB trace out from pin 1 to an SMA connector if so desired.

The active patch antenna likes to have a ground plane underneath it for best results...particularly during the acquisition phase....once it's acquired the satellites, it takes a lot less signal to maintain tracking. I put a strip of adhesive metal tape attached to some foam core underneath the patch and it worked great.

The smaller patch antennas they offer will also work, but I would recommend the 254 version (about an inch on a side) since that one seems to be the most sensitive.

So far, I've seen little or no desense by nearby 70cm transmissions, something that only the long discontinued Motorola VP Oncore can do in my experience. It wasn't affected by the ozonesonde signal on 403.2 MHz at all during this last flight...the Trimble Copernicus was affected however. I will test it in an ATV payload soon.

The module operates on 3.3 volts and draws just 25 mA during tracking (add about 10 mA for the active patch)....a big power budget savings over a GPS18 for example...(the GPS18 is 5V at 65 mA). Adding a backup coin cell battery to pin 2 allows you to do incredibly fast hot starts.

Photos of the 2m transmitter board with the onboard Inventek GPS module can be seen here...the same board will work on HF as well with different output filter values.

http://www.wb8elk.com/oz011709.htm (http://www.wb8elk.com/oz011709.htm)

I'll be flying the HF version on 21.091 MHz this weekend (weather permitting).

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62)

4933. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 00:37:42 UTC
From: Jeff Dailey
Topic: 4930 Message: 4933

We fly it with a crossband repeater Uplink on 2M and the downlink on 70cm with no problems.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

----- Original Message ----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Monday, January 19, 2009 5:58:10 PM
Subject: Re: [GPSL] Inventek GPS unit

any with 70 cm ATV yet?

Jeff Dailey wrote:

>Hello
>
>I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
>To date 20 units are flying.
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>Center for Research & Innovation
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>jfdailey@taylor.edu
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Yahoo! Groups Links

4934. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 00:39:07 UTC
From: Joe
Topic: 4930 Message: 4934

same here with the garmin 18's, not a single problem,, but a 6 MHz wide 1 3 watt sig and it dies.

Joe Near Space Sciences

Jeff Dailey wrote:

>
>We fly it with a crossband repeater Uplink on 2M and the downlink on 70cm with no problems.
>
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>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
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> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
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>-----Original Message ----
>From: Joe <nss@...>
>To: GPSL@yahoogroups.com
>Sent: Monday, January 19, 2009 5:58:10 PM
>Subject: Re: [GPSL] Inventek GPS unit
>
>any with 70 cm ATV yet?
>
>Jeff Dailey wrote:
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>>Hello
>>
>>I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.

>>To date 20 units are flying.
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4935. Re: Details on the Inventek GPS unit for ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 02:02:46 UTC
From: Steve
Topic: 4932 Message: 4935

Hi Bill -

We haven't met (yet!) - I'm one of the technical weenies with EOSS under Mike Manes - I do GPS at work (aerospace here in Denver). We (EOSS) had one bad case of intermittent GPS desense a while ago that correlated exactly to our UHF ATV cycle - but only when broadcasting the UP-looking scene, not the down-looking scene(!).

The GPS was our standard Motorola Jupiter board, which does have a good BPF ahead of the first active stage on the board - BUT, I had changed out the passive quad helix antenna for a new active patch. The active part of this (and nearly all) patch antenna is a broadband MMIC amp, with NO preselector whatsoever, other than the patch passband itself.

At the close physical proximities of a balloon string, an unshielded MMIC will hear just about everything on the string that talks, esp at UHF. When I removed the MMIC and just had the same patch (now passive) and GPS board, everything cleared up on a subsequent flight.

I suspect many of the UHF-emitter-related GPS desense problems that have been reported are due to the same cause - the GPS board is OK, but the wideband preamp in the active antenna is overloaded and driven into saturation, destroying the GPS signal before it ever reaches the GPS board. With GPS, the delicate phase relationships of the received signals must be preserved for the thing to work right.

EOSS needs to try out the Inventek GPS - sounds VERY promising. Please add us as Beta testers for your board, either populated or not. With the intrinsic sensitivity of SIRF (and given our vanishingly small coax losses), I seriously doubt an active antenna is necessary - and passive patches are CHEAP!

Looking forward to chatting with you on other balloon-related topics - I'll check out your website next!

Tnx - Steve Osborne KC0YA

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
> Ralph,
>
> You can officially put the Inventek ISMF2-C5.1-V004 GPS module as "passes"
> for the "GPS receivers vs. 60k feet" list. It worked great (never lost GPS

> lock) during my last flight to 110,000 feet.
>
> The module itself is very inexpensive but the eval board that
Inventek
> sells is fairly pricey....they have a reasonably priced USB thumb
drive eval
> board version but it's for the F1 and does not bring out serial
port B that has
> the balloon NMEA data on it....therefore, I'm about done with a PC
board
> design that will allow the balloon community to plug and play the
board without
> having to worry about surface mount soldering....I'll offer the
board by
> itself for those with surface mount assembly experience. I'll have
that info
> posted soon on my website: _http://www.wb8elk.com_
(http://www.wb8elk.com) or
> _http://www.elktronics.com_ (http://www.elktronics.com) I should
have that
> done this week.
>
> The V004 version is the custom firmware build that allows the
SIRF III
> chipset to work up to 135,000 feet....Inventek has one of the SIRF
software
> designers on staff according to info I was told when I called them.
Here's the
> ordering link for the high altitude balloon version:...look for the
listing that
> says "GPS custom firmware" and select the C5.1- V004 version that
says,
> "NMEA 4800, ceiling 135000 ft"
>
> _http://inventeksys.accountsupport.com/store/gps_modules.html_
> (http://inventeksys.accountsupport.com/store/gps_modules.html)
>
> This is a very economical unit, to the price point of a
disposable
> system....and they don't mind single quantities.
>
> I flew it with their equally inexpensive active patch antenna
> (ACTPAT254-01-IP):
>
> _http://inventeksys.accountsupport.com/store/gps_antennas.html_
> (http://inventeksys.accountsupport.com/store/gps_antennas.html)
>
> The active patch has a short coax with a UHL connector that plugs
directly
> into the top of the GPS receiver module...you can also run a short

PCB trace
> out from pin 1 to an SMA connector if so desired.
>
> The active patch antenna likes to have a ground plane underneath it
for best
> results...particularly during the acquisition phase....once it's
acquired
> the satellites, it takes a lot less signal to maintain tracking. I
put a strip
> of adhesive metal tape attached to some foam core underneath the
patch and it
> worked great.
>
> The smaller patch antennas they offer will also work, but I would
recommend
> the 254 version (about an inch on a side) since that one seems to
be the most
> sensitive.
>
> So far, I've seen little or no desense by nearby 70cm
transmissions,
> something that only the long discontinued Motorola VP Oncore can
do in my
> experience. It wasn't affected by the ozonesonde signal on 403.2
MHz at all during this
> last flight...the Trimble Copernicus was affected however. I will
test it in
> an ATV payload soon.
>
> The module operates on 3.3 volts and draws just 25 mA during
tracking (add
> about 10 mA for the active patch)....a big power budget savings
over a GPS18
> for example...(the GPS18 is 5V at 65 mA). Adding a backup coin
cell battery to
> pin 2 allows you to do incredibly fast hot starts.
>
> Photos of the 2m transmitter board with the onboard Inventek GPS
module can
> be seen here...the same board will work on HF as well with
different output
> filter values.
>
> _http://www.wb8elk.com/oz011709.htm_
(http://www.wb8elk.com/oz011709.htm)
>
> I'll be flying the HF version on 21.091 MHz this weekend (weather
> permitting).
>
> - Bill WB8ELK

>

4936. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 04:28:33 UTC
From: Mike Manes
Topic: 4930 Message: 4936

Hi Jeff,

What's required to "unlock" the ISM300?

73 de Mike W5VSI
CTO EOSS

Jeff Dailey wrote:
> Hello
>
> I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
> To date 20 units are flying.
>
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> Upland, IN 46989
> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4937. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 04:33:27 UTC
From: Greg Clark
Topic: 4930 Message: 4937

It's a special software build available from the manuf. It's a
different "model number" than the standard part.

I'm ordering mine tomorrow!

-- Greg K7RKT

On 1/19/09, Mike Manes <mrmanes@...> wrote:
>
>
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>
>
>
> Hi Jeff,
>
> What's required to "unlock" the ISM300?
>
> 73 de Mike W5VSI
> CTO EOSS
>
> Jeff Dailey wrote:
> > Hello
> >
> > I started testing the ISM300 last year and had them unlock it for a max
> altitude of 135K feet, I found it to be very reliable for high altitude
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

4938. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 04:48:16 UTC
From: Mike Manes
Topic: 4930 Message: 4938

Inverse range squared solves a multitude of EMC problems. This is why we use Zigbee link between the ATV module and GPS module 15 ft away on the payload line to get data to the video overlay.
73 de Mike W5VSI

Joe wrote:
> same here with the garmin 18's, not a single problem,, but a 6 MHz
> wide 1 3 watt sig and it dies.
>
> Joe Near Space Sciences
>
> Jeff Dailey wrote:
>>
>> We fly it with a crossband repeater Uplink on 2M and the downlink on 70cm with no problems.
>>
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>> Jeffrey F. Dailey
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>> (765) 998-4365 Fax (765) 998-4396
>> jfdailey@...
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>> ----- Original Message ----
>> From: Joe <nss@...>
>> To: GPSL@yahoogroups.com
>> Sent: Monday, January 19, 2009 5:58:10 PM
>> Subject: Re: [GPSL] Inventek GPS unit
>>
>> any with 70 cm ATV yet?
>>
>> Jeff Dailey wrote:
>>

>>
>>> Hello
>>>
>>> I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
>>> To date 20 units are flying.
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4939. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 08:10:34 UTC
From: wb8elk@aol.com
Topic: 4930 Message: 4939

Hi Mike,

The firmware build C5.1-V004 of the Inventek module already has the altitude limit unlocked up to 135,000 feet....no special commands or configuration necessary if you buy that version....it's plug n play balloon ready.

When ordering make sure to specify that particular module (ISM300F2-C5.1-V004)...it's not the DoD 60k limitation but as they explained it to me, it's a limitation of the Kalman filter algorithm that they use....which they modify to make it work above 78,000 feet (the Kalman filter limit that would be in place without the balloon fix)...the high altitude balloon mod then allows it to work up to 135,000 feet, which is another limit of the Kalman filter. This is probably why the Deluo unit that Byonics sells works up to 78,000 feet but not above (we found that out on the Field Day flight)....but good luck trying to find an engineer at Deluo to modify the code.

I've found that the folks at Inventek are easy to work with and I'd imagine would work with you for specific firmware mods....a conversation with them would be all it would take. It's refreshing to find a company like this...most of the other GPS companies will take you days worth of wading through layers of management and sales people to finally get to an engineer who can answer potential modifications and the answer is usually NO unless you are buying 10,000 units or more (and of course, you'll usually never actually be able to talk directly to the engineer).

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62)

4940. Re: [GPSL] Re: Details on the Inventek GPS unit for ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 13:54:41 UTC
From: L. Paul Verhage
Topic: 4932 Message: 4940
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4941. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 15:21:17 UTC
From: Jeff Dailey
Topic: 4930 Message: 4941

Hello Mike

Inventek has put the option on there web site, the firmware option is C5.1-V004.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

----- Original Message ----
From: Mike Manes <mrmanes@...>
To: Jeff Dailey - Taylor U <jfdailey@...>
Cc: GPSL@yahoogroups.com; Steve Osborne KC0YA <steveosborne2@...>; Steve Meer K0SCC <smeer@...>
Sent: Monday, January 19, 2009 11:28:33 PM
Subject: Re: [GPSL] Inventek GPS unit

Hi Jeff,

What's required to "unlock" the ISM300?

73 de Mike W5VSI
CTO EOSS

Jeff Dailey wrote:
> Hello
>
> I started testing the ISM300 last year and had them unlock it for a max altitude of 135K feet, I found it to be very reliable for high altitude balloons.
> To date 20 units are flying.
>
>
>
>
>
>
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
> 236 W. Reade Ave.
> Upland, IN 46989

> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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Mike Manes   mrmanes@...   Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

4942. HARP 91 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 15:35:25 UTC
From: Jeff Dailey
Topic: 4942 Message: 4942

Taylor University will be launching on Saturday Jan. 24 at 12:00 noon eastern time.
This is an Astronomy class of 125 students with 14 PODs with over 50 Analog Inputs on the high speed 900Mhz DATA Network.
APRS callsign KB9ZNZ-11
Launch site Taylor University

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
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Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

4943. Re: [GPSL] Inventek GPS unit

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-20 16:23:10 UTC
From: Mike Manes
Topic: 4930 Message: 4943

Thanks, Jeff. de Mike W5VSI, EOSS

Jeff Dailey wrote:
> Hello Mike
>
>
> Inventek has put the option on there web site, the firmware option is C5.1-V004.
>
>
>
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
> 236 W. Reade Ave.
> Upland, IN 46989
> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
>
>
>
> ----- Original Message ----
> From: Mike Manes <mrmanes@...>
> To: Jeff Dailey - Taylor U <jfdailey@...>
> Cc: GPSL@yahoogroups.com; Steve Osborne KC0YA <steveosborne2@...>; Steve Meer K0SCC
<smeer@...>
> Sent: Monday, January 19, 2009 11:28:33 PM
> Subject: Re: [GPSL] Inventek GPS unit
>
> Hi Jeff,
>
> What's required to "unlock" the ISM300?
>
> 73 de Mike W5VSI
> CTO EOSS
>
> Jeff Dailey wrote:
>> Hello
>>
>> I started testing the ISM300 last year and had them unlock it for a max altitude of 135K
feet, I found it to be very reliable for high altitude balloons.
>> To date 20 units are flying.
>>
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>>
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>>
>>
>> Jeffrey F. Dailey
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>> Research Engineer
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>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

4944. Cosmi Rays and Stratosphere

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-22 15:43:45 UTC
From: L. Paul Verhage
Topic: 4944 Message: 4944

There's an interesting Cosmic Ray story at
http://www.ncas.ac.uk/index.php?option=com_content&task=view&id=446&Itemid=249

--
Onwards and Upwards,
Paul

4945. Carbon Nanotube

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 15:37:02 UTC
From: L. Paul Verhage
Topic: 4945 Message: 4945

Last year I visited the space elevator games and wrote an article about it.
I saw some carbon nanotube ribbon there, but it looks like England has done
better. Here's the link.

http://www.timesonline.co.uk/tol/driving/features/article5529668.ece

--
Onwards and Upwards,
Paul

4946. GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 19:00:32 UTC
From: L. Paul Verhage
Topic: 4946 Message: 4946

I just found out I start school on August 1st. So I'd like to move GPSL back to July. Is that going to work?

--
Onwards and Upwards,
Paul

4947. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 20:59:05 UTC
From: BASE
Topic: 4946 Message: 4947

Dear Paul,

What do you mean by back to July? Can you suggest a specific weekend that you would prefer.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@...> wrote:
From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] GPSL Date
To: gpsl@yahoogroups.com
Date: Friday, January 23, 2009, 2:00 PM

I just found out I start school on August 1st. So I'd like to move GPSL back to July. Is that going to work?
--
Onwards and Upwards,
Paul

4948. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 21:06:00 UTC
From: L. Paul Verhage
Topic: 4946 Message: 4948

Let me ask what weekend works well for everyone.

What weekends in July, please.

Paul

On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@...> wrote:

> Dear Paul,
>
> What do you mean by back to July? Can you suggest a specific weekend that
> you would prefer.
>
> Howard
>
>
> --- On *Fri, 1/23/09, L. Paul Verhage <nearsys@...>* wrote:
>
> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] GPSL Date
> To: gpsl@yahoogroups.com
> Date: Friday, January 23, 2009, 2:00 PM
>
> I just found out I start school on August 1st. So I'd like to move GPSL
> back to July. Is that going to work?
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Onwards and Upwards,
Paul

4949. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 21:08:27 UTC
From: Mark Conner
Topic: 4946 Message: 4949

NSTAR would prefer the July 4 weekend. We'd have some difficulty
support any other weekend in July.

Field Day weekend would work too, but suggesting that may promote
aneurysms in some.

73 de Mark N9XTN

On Fri, Jan 23, 2009 at 15:06, L. Paul Verhage <nearsys@...> wrote:
> Let me ask what weekend works well for everyone.
>
> What weekends in July, please.
>
> Paul
>
> On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@...> wrote:
>>
>> Dear Paul,
>>
>> What do you mean by back to July? Can you suggest a specific weekend that
>> you would prefer.
>>
>> Howard
>>
>>
>> --- On Fri, 1/23/09, L. Paul Verhage <nearsys@...> wrote:
>>
>> From: L. Paul Verhage <nearsys@...>
>> Subject: [GPSL] GPSL Date
>> To: gpsl@yahoogroups.com
>> Date: Friday, January 23, 2009, 2:00 PM
>>
>> I just found out I start school on August 1st. So I'd like to move GPSL
>> back to July. Is that going to work?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

4950. RE: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-23 23:57:21 UTC
From: Nick Hanks
Topic: 4946 Message: 4950

Hi Paul,

Sorry to hear about the job time shift. July is very tough month for EOSS for a free weekend. Need to check with a "customer" about moving a previously scheduled flight date. He'll be in on Monday.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Friday, January 23, 2009 14:06
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Date

Let me ask what weekend works well for everyone.

What weekends in July, please.

Paul

On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@yahoo. <mailto:basedepauw@...> com> wrote:

Dear Paul,

What do you mean by back to July? Can you suggest a specific weekend that you would prefer.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. <mailto:nearsys@...> com> wrote:

From: L. Paul Verhage <nearsys@gmail. <mailto:nearsys@...> com>
Subject: [GPSL] GPSL Date
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Date: Friday, January 23, 2009, 2:00 PM

I just found out I start school on August 1st. So I'd like to move GPSL back to July. Is that going to work?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

4951. [Fwd: [Ballooning] Researchers launch NASA balloon]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-24 22:11:42 UTC
From: Mike Manes
Topic: 4951 Message: 4951

-------- Original Message --------
Subject: [Ballooning] Researchers launch NASA balloon
Date: Sat, 24 Jan 2009 07:05:50 -0800 (PST)
From: steven johnson <spj910@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Researchers launch NASA balloon
LAS CRUCES, N.M. (AP) - New Mexico State University researchers have launched a NASA balloon from the McMurdo Station in Antarctica for a record-setting flight.

The university says the balloon is the largest successful single cell super pressure balloon ever flown. It has been flying at an altitude of about 110,000 feet since being launched nearly a month ago.

Researchers say the next generation of super pressure balloons will be able to fly longer missions and carry heavier data gathering instruments.

NMSU's Physical Science Laboratory manages the $238 million NASA contract for the operation, maintenance and engineering support of the Columbia Scientific Balloon Facility.

The facility launches between 15 and 20 balloons each year from sites in New Mexico, Sweden, Antarctica, South American and Australia.

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4952. Re: [GPSL] [Fwd: [Ballooning] Researchers launch NASA balloon]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-24 22:56:04 UTC
From: Dan Bowen
Topic: 4951 Message: 4952

http://www.csbf.nasa.gov/map/balloon4/balloon4.htm

Track the Ultra Long Duration Balloon here:
http://www.csbf.nasa.gov/map/balloon4/balloon4.htm

Thanks,
Dan

On Jan 24, 2009, at 5:11 PM, Mike Manes wrote:

>
>
> -------- Original Message --------
> Subject: [Ballooning] Researchers launch NASA balloon
> Date: Sat, 24 Jan 2009 07:05:50 -0800 (PST)
> From: steven johnson <spj910@...>
> Reply-To: Ballooning@yahoogroups.com
> To: Ballooning@yahoogroups.com
>
> Researchers launch NASA balloon
> LAS CRUCES, N.M. (AP) - New Mexico State University researchers have
> launched
> a NASA balloon from the McMurdo Station in Antarctica for a record-
> setting flight.
>
> The university says the balloon is the largest successful single
> cell super
> pressure balloon ever flown. It has been flying at an altitude of
> about
> 110,000 feet since being launched nearly a month ago.
>
> Researchers say the next generation of super pressure balloons will
> be able to
> fly longer missions and carry heavier data gathering instruments.
>
> NMSU's Physical Science Laboratory manages the $238 million NASA
> contract for
> the operation, maintenance and engineering support of the Columbia
> Scientific
> Balloon Facility.
>
> The facility launches between 15 and 20 balloons each year from
> sites in New
> Mexico, Sweden, Antarctica, South American and Australia.
>
> ------------------------------------

>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
> Regards,
>
> Moderator, Ballooning
>
> Yahoo! Groups Links
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

4953. Re:[Fwd: [Ballooning] Researchers launch NASA balloon]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-25 19:02:32 UTC
From: K. Mark Caviezel
Topic: 4951 Message: 4953

"NMSU's Physical Science Laboratory manages the $238 million NASA contract for the operation, maintenance and engineering support of the Columbia Scientific Balloon Facility.

The facility launches between 15 and 20 balloons each year"

>>>>>>>>>>>>>>>Simple math $238M/20 balloons is about $12M per balloon. Not too shabby. Of course moving a large launch operation to Antarctica could cost a pretty penny.

- Mark ng0x

4954. Re: [GPSL] Re:[Fwd: [Ballooning] Researchers launch NASA balloon]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-25 22:45:29 UTC
From: Luis Eduardo Pacheco
Topic: 4951 Message: 4954

All the Operation at Antartica made by the Nasa balloon program are funded
by the National Science Foundation, even the shipping of payloads.

2009/1/25, K. Mark Caviezel <kmcaviezel@...>:
>
> "NMSU's Physical Science Laboratory manages the $238 million NASA contract
> for
> the operation, maintenance and engineering support of the Columbia
> Scientific
> Balloon Facility.
>
> The facility launches between 15 and 20 balloons each year"
>
> >>>>>>>>>>>>>>>Simple math $238M/20 balloons is about $12M per balloon.
> Not too shabby. Of course moving a large launch operation to Antarctica
> could cost a pretty penny.
>
>
> - Mark ng0x
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en
la investigación cientifica, el campo militar y la actividad aeroespacial

4955. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 00:14:40 UTC
From: BASE
Topic: 4946 Message: 4955

Dear Paul,

The weekend of July 11-12 would NOT work for BASE. We can probably make it on any other weekend.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@...> wrote:
From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] GPSL Date
To: GPSL@yahoogroups.com
Date: Friday, January 23, 2009, 4:06 PM

Let me ask what weekend works well for everyone.
What weekends in July, please.
Paul

On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@yahoo. com> wrote:

Dear Paul,

What do you mean by back to July? Can you suggest a specific weekend that you would prefer.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. com> wrote:

From: L. Paul Verhage <nearsys@gmail. com>
Subject: [GPSL] GPSL Date

To: gpsl@yahoogroups. com
Date: Friday, January 23, 2009, 2:00 PM

I just found out I start school on August 1st. So I'd like to move GPSL back to July. Is that going to work?
--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

4956. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 01:01:01 UTC
From: L. Paul Verhage
Topic: 4946 Message: 4956

It looks like the weekend closes to the 4th of July weekend, but I need to hear from EOSS.

It also looks like I have permission to use my new school for the meeting. It's the Kaw Area Technical School in Topeka. I have email out to Garmin to see if I can arrange a tour. Is anyone on the list an employee of Garmin?

Would people be able to attend a Garmin tour on Thursday? If the tour takes place on Friday, it would cut into presentations.

I've driven by Kantronics in Lawrence. Perhaps we could take a tour of them, also.

Thnaks,
Paul

On Mon, Jan 26, 2009 at 6:14 PM, BASE <basedepauw@...> wrote:

> Dear Paul,
>
> The weekend of July 11-12 would NOT work for BASE. We can probably make it
> on any other weekend.
>
> Howard
>
> --- On *Fri, 1/23/09, L. Paul Verhage <nearsys@...>* wrote:
>
> From: L. Paul Verhage <nearsys@...>
> Subject: Re: [GPSL] GPSL Date
> To: GPSL@yahoogroups.com
> Date: Friday, January 23, 2009, 4:06 PM
>
> Let me ask what weekend works well for everyone.
>
> What weekends in July, please.
>
> Paul
>
> On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@yahoo. com<basedepauw@...>
> > wrote:
>
>> Dear Paul,
>>
>> What do you mean by back to July? Can you suggest a specific weekend that
>> you would prefer.
>>

>> Howard
>>
>>
>> --- On *Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. com<nearsys@...>
>> >* wrote:
>>
>> From: L. Paul Verhage <nearsys@gmail. com <nearsys@...>>
>> Subject: [GPSL] GPSL Date
>> To: gpsl@yahoogroups. com <gpsl@yahoogroups.com>
>> Date: Friday, January 23, 2009, 2:00 PM
>>
>> I just found out I start school on August 1st. So I'd like to move
>> GPSL back to July. Is that going to work?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
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>
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Onwards and Upwards,
Paul

4957. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 01:41:22 UTC
From: Mark Conner
Topic: 4946 Message: 4957

Friday, July 3 would be the observed holiday, so I expect Kantronics
and Garmin would be closed on Friday anyway.

I think I'd rather see the Garmin facility instead of Kantronics, but
Olathe is a bit over an hour from Topeka - Kantronics in Lawrence
would be a shorter drive. A late-day tour would be preferred - I
could leave Omaha Thursday morning and head straight to whichever site
we were going to.

73 de Mark N9XTN

On Mon, Jan 26, 2009 at 19:01, L. Paul Verhage <nearsys@...> wrote:
> It looks like the weekend closes to the 4th of July weekend, but I need to
> hear from EOSS.
>
> It also looks like I have permission to use my new school for the meeting.
> It's the Kaw Area Technical School in Topeka. I have email out to Garmin to
> see if I can arrange a tour. Is anyone on the list an employee of Garmin?
>
> Would people be able to attend a Garmin tour on Thursday? If the tour takes
> place on Friday, it would cut into presentations.
>
> I've driven by Kantronics in Lawrence. Perhaps we could take a tour of
> them, also.
>
> Thnaks,
> Paul
>

4958. RE: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 03:45:47 UTC
From: Nick Hanks
Topic: 4946 Message: 4958

Hi Paul,

As I wrote last weekend, EOSS needed to talk to our sponsoring organization about moving the GPSL date as EOSS had two flights scheduled with them in July. I spoke with them today.

Here's how it lays out for EOSS.

- Nine of the twelve guys we had at GPSL last Aug. participate in Field Day, which is the last weekend in June (fire-up them pace makers). Field Day is basically a two-day event: Friday PM to Sunday afternoon.

- Next weekend is 4th of July. Several families have family events all ready planned. (Wow. I was impressed by that.)

- Next weekend is 11 July. EOSS has a flight planned for a sponsoring organization. The flight is one part of a larger multi-day event that involves folks coming from out of town, facilities already reserved, and basically a schedule that has no flexibility.

- Next weekend is 18 July. No scheduled events.

- Next weekend is 25 July. We have a flight for a sponsoring organization.

If GPSL were to occur on the 4 July our attendance would be down, and we'd stress some families by having folks do ham radio for three weekends in a row, two of which would be multi-day events. So 4th is a non-player for most of us.

If GPSL were to occur on the 25th, we have three consecutive weekends of ham radio, but two weekends would just be a Saturday.

In discussion with our sponsoring organization, they're willing to move the 25th date to 1 Aug. That would give us:

- 26-28 June Field Day

- 4 July Family Time

- 11 July Flight

- 18 July Open

- 25 July Open

- 1 Aug Flight.

How about GPSL the weekend of 18 or 25 July? That would give us only one two-weekends-in-a-row of ham radio. Think we can handle that.

73,

Nick N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, January 26, 2009 18:01
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Date

It looks like the weekend closes to the 4th of July weekend, but I need to hear from EOSS.

It also looks like I have permission to use my new school for the meeting. It's the Kaw Area Technical School in Topeka. I have email out to Garmin to see if I can arrange a tour. Is anyone on the list an employee of Garmin?

Would people be able to attend a Garmin tour on Thursday? If the tour takes place on Friday, it would cut into presentations.

I've driven by Kantronics in Lawrence. Perhaps we could take a tour of them, also.

Thnaks,

Paul

On Mon, Jan 26, 2009 at 6:14 PM, BASE <basedepauw@yahoo. <mailto:basedepauw@...> com> wrote:

Dear Paul,

The weekend of July 11-12 would NOT work for BASE. We can probably make it on any other weekend.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. <mailto:nearsys@...> com> wrote:

From: L. Paul Verhage <nearsys@gmail. <mailto:nearsys@...> com>
Subject: Re: [GPSL] GPSL Date
To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
Date: Friday, January 23, 2009, 4:06 PM

Let me ask what weekend works well for everyone.

What weekends in July, please.

Paul

On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@yahoo. com
<mailto:basedepauw@...> > wrote:

Dear Paul,

What do you mean by back to July? Can you suggest a specific weekend that
you would prefer.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. com
<mailto:nearsys@...> > wrote:

From: L. Paul Verhage <nearsys@gmail. com <mailto:nearsys@...> >
Subject: [GPSL] GPSL Date
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Date: Friday, January 23, 2009, 2:00 PM

I just found out I start school on August 1st. So I'd like to move GPSL
back to July. Is that going to work?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

4959. RE: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 05:24:32 UTC
From: Marty Griffin
Topic: 4946 Message: 4959

Nicely done. It will be a busy time.

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Nick Hanks
Sent: Monday, January 26, 2009 8:46 PM
To: GPSL@yahoogroups.com
Cc: 'Rob Wright'
Subject: RE: [GPSL] GPSL Date

Hi Paul,

As I wrote last weekend, EOSS needed to talk to our sponsoring organization about moving the GPSL date as EOSS had two flights scheduled with them in July. I spoke with them today.

Here's how it lays out for EOSS.

- Nine of the twelve guys we had at GPSL last Aug. participate in Field Day, which is the last weekend in June (fire-up them pace makers). Field Day is basically a two-day event: Friday PM to Sunday afternoon.

- Next weekend is 4th of July. Several families have family events all ready planned. (Wow. I was impressed by that.)

- Next weekend is 11 July. EOSS has a flight planned for a sponsoring organization. The flight is one part of a larger multi-day event that involves folks coming from out of town, facilities already reserved, and basically a schedule that has no flexibility.

- Next weekend is 18 July. No scheduled events.

- Next weekend is 25 July. We have a flight for a sponsoring organization.

If GPSL were to occur on the 4 July our attendance would be down, and we'd stress some families by having folks do ham radio for three weekends in a row, two of which would be multi-day events. So 4th is a non-player for most of us.

If GPSL were to occur on the 25th, we have three consecutive weekends of ham radio, but two weekends would just be a Saturday.

In discussion with our sponsoring organization, they're willing to move the 25th date to 1 Aug. That would give us:

- 26-28 June Field Day

- 4 July Family Time

- 11 July Flight

- 18 July Open

- 25 July Open

- 1 Aug Flight.

How about GPSL the weekend of 18 or 25 July? That would give us only one two-weekends-in-a-row of ham radio. Think we can handle that.

73,

Nick N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, January 26, 2009 18:01
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Date

It looks like the weekend closes to the 4th of July weekend, but I need to hear from EOSS.

It also looks like I have permission to use my new school for the meeting. It's the Kaw Area Technical School in Topeka. I have email out to Garmin to see if I can arrange a tour. Is anyone on the list an employee of Garmin?

Would people be able to attend a Garmin tour on Thursday? If the tour takes place on Friday, it would cut into presentations.

I've driven by Kantronics in Lawrence. Perhaps we could take a tour of them, also.

Thnaks,

Paul

On Mon, Jan 26, 2009 at 6:14 PM, BASE <basedepauw@...> wrote:

Dear Paul,

The weekend of July 11-12 would NOT work for BASE. We can probably make it on any other weekend.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] GPSL Date
To: GPSL@yahoogroups.com

Date: Friday, January 23, 2009, 4:06 PM

Let me ask what weekend works well for everyone.

What weekends in July, please.

Paul

On Fri, Jan 23, 2009 at 2:59 PM, BASE <basedepauw@yahoo. com
<mailto:basedepauw@...> > wrote:

Dear Paul,

What do you mean by back to July? Can you suggest a specific weekend that
you would prefer.

Howard

--- On Fri, 1/23/09, L. Paul Verhage <nearsys@gmail. com
<mailto:nearsys@...> > wrote:

From: L. Paul Verhage <nearsys@gmail. com <mailto:nearsys@...> >
Subject: [GPSL] GPSL Date
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Date: Friday, January 23, 2009, 2:00 PM

I just found out I start school on August 1st. So I'd like to move GPSL
back to July. Is that going to work?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

4960. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 09:42:03 UTC
From: wb8elk@aol.com
Topic: 4946 Message: 4960

Hi Paul....July 4th weekend works for me.

- Bill WB8ELK

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4961. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 19:39:33 UTC
From: Keith Kaiser
Topic: 4946 Message: 4961

August 1st is a Saturday, what school starts on Saturdays?
I'm not in favor of moving the date. Leave it on 8/1/09 is the request
of NSV.

On Jan 23, 2009, at 1:00 PM, L. Paul Verhage wrote:

>
> I just found out I start school on August 1st. So I'd like to move
> GPSL back to July. Is that going to work?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

4962. Re: [GPSL] GPSL Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 20:25:31 UTC
From: L. Paul Verhage
Topic: 4946 Message: 4962

It looks like I'll be in school and unable to reserve KATS where I work. My supervisor asked me to move the date to an eariler day if we want to use the facility.

On Tue, Jan 27, 2009 at 1:39 PM, Keith Kaiser <wa0tjt@...> wrote:

> August 1st is a Saturday, what school starts on Saturdays? I'm not in
> favor of moving the date. Leave it on 8/1/09 is the request of NSV.
>
> On Jan 23, 2009, at 1:00 PM, L. Paul Verhage wrote:
>
>
> I just found out I start school on August 1st. So I'd like to move GPSL
> back to July. Is that going to work?
>
> --
> Onwards and Upwards,
> Paul
>
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>

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Onwards and Upwards,
Paul

4963. Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 21:23:57 UTC
From: Mike Manes
Topic: 4963 Message: 4963

Steve, KC0YA, mentioned that Harbor Freight carries vacuum pumps, primarily intended for air condition system maintenance. This one pulls down to 75 microns (0,075 mmHg or 74 milliTorr), which is WAY higher than 200 Kft MSL pressure altitude - and only $60. There are other higher-power models available at more $$$, but this should do fine with < 1 cuft chamber.

http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074

I've seen some homebrew bell jars made from Pyrex and stainless steel mixing bowls. Now, if only we could get cheap mercury manometers ... in a pinch, a surplus Viz radiosonde anaeroid baro pressure mux can serve as a rough altimeter.

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4964. Programmable pressure relief valve

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-27 23:12:01 UTC
From: Dan Wietchy
Topic: 4963 Message: 4964

I'm thinking about putting a programmable pressure release valve in the throat of a future balloon to burp excess helium and keep the balloon at a pre-programmed altitude. Hopefully, it would be programmable via parallax stamp, picaxe or other micro controller.

Has anyone from the balloon groups attempted this and if so, can you provide some reference URL's or other sources for small, light weight and possibly programmable pressure valves.

thanks

Dan KL1JP
BEAR ballon

4965. Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 03:51:36 UTC
From: Mike Manes
Topic: 4963 Message: 4965

Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL for the rest of the ARHAB gang who may be interested.

BTW, that plastic gasketted refrigerator jar is slick! Kinda small for a full payload, but plenty big enuf for testing pressure-sensitive components. That pump looks just a WHOLE lot like the one from Harbor Freight.

73 de Mike W5VSI

S. Osborne wrote:
> Hi Mike -
>
> Yup, that's the one. Also see:
>
> http://www.belljar.net/634hypo.pdf (your mixing bowl idea)
>
> www.belljar.net/basics.htm (general data for amateur vac
> systems)
>
> http://www.pcprg.com/chamber.htm
>
> The final site shows a setup IDENTICAL to what I have in mind. I thought I
> had an original idea - then found this site - pooped my bubble. PBC ensued,
> but I'll get over it (!).
>
> There's quite a bit of amateur vacuum stuff on the web - I was amazed. I'm
> saving my lunch money to buy that little pump from HF. I have that little
> hand pump coming from an eBay guy - we'll see what it can do.
>
> Take Care - KC0YA
>
>
> -----Original Message-----
> From: Mike Manes [mailto:mrmanes@...]
> Sent: Tuesday, January 27, 2009 2:24 PM
> To: GPSL Balloon Reflector; ANSR Balloon Reflector
> Cc: Steve Osborne KC0YA
> Subject: Harbor Freight high vacuum pump - cheap!
>
> Steve, KC0YA, mentioned that Harbor Freight carries vacuum pumps, primarily
> intended for air condition system maintenance. This one pulls down to 75
> microns (0,075 mmHg or 74 milliTorr), which is WAY higher than 200 Kft MSL
> pressure altitude - and only $60. There are other higher-power models
> available at more $$$, but this should do fine with < 1 cuft chamber.
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> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074

>
> I've seen some homebrew bell jars made from Pyrex and stainless steel mixing
> bowls. Now, if only we could get cheap mercury manometers ... in a pinch,
> a surplus Viz radiosonde anaeroid baro pressure mux can serve as a rough
> altimeter.
>
> 73 de Mike W5VSI

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4966. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 14:06:37 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4966

So all we need to do now is pack it with dry ice and we'll have a complete near space simulation chamber. I wonder if that's worth an article? Well, I guess I know what I'm going to spend my money on.

Paul

On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...> wrote:

> Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL for the rest of
> the ARHAB gang who may be interested.
>
> BTW, that plastic gasketted refrigerator jar is slick! Kinda small for a
> full
> payload, but plenty big enuf for testing pressure-sensitive components.
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> pump looks just a WHOLE lot like the one from Harbor Freight.
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> > -----Original Message-----
> > From: Mike Manes [mailto:mrmanes@...]
> > Sent: Tuesday, January 27, 2009 2:24 PM
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> > Cc: Steve Osborne KC0YA
> > Subject: Harbor Freight high vacuum pump - cheap!
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> > available at more $$$, but this should do fine with < 1 cuft chamber.
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> > http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
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> > I've seen some homebrew bell jars made from Pyrex and stainless steel
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> > bowls. Now, if only we could get cheap mercury manometers ... in a
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> > a surplus Viz radiosonde anaeroid baro pressure mux can serve as a rough
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> Mike Manes mrmanes@... Tel: 303-979-4899
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> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

4967. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 17:40:24 UTC
From: John Nordlie
Topic: 4963 Message: 4967

That's a slick system, no doubt. I'd be a little concerned
about putting dry ice inside it though, won't the sublimation
of the dry ice drive the pressure up and limit the simulated
altitude you can reach?

The other concern is if the jar is plastic, dry ice temperatures
might make it brittle and prone to implosion. Or am I being
too cautious?

What we're looking at here is taking a steel tank from an air
compressor, cutting the end off, and welding on some flanges
to allow it to be clamped shut again. Paul, what do you think
about holding dry ice against the outside of this, and having
another layer of insulation over that?

On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> So all we need to do now is pack it with dry ice and we'll have a
> complete near space simulation chamber. I wonder if that's worth an
> article? Well, I guess I know what I'm going to spend my money on.
>
> Paul
>
>
>
> On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...> wrote:
> Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL
> for the rest of
> the ARHAB gang who may be interested.
>
> BTW, that plastic gasketted refrigerator jar is slick! Kinda
> small for a full
> payload, but plenty big enuf for testing pressure-sensitive
> components. That
> pump looks just a WHOLE lot like the one from Harbor Freight.
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> do.
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> > Take Care - KC0YA
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> > -----Original Message-----
> > From: Mike Manes [mailto:mrmanes@...]
> > Sent: Tuesday, January 27, 2009 2:24 PM
> > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > Cc: Steve Osborne KC0YA
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> > Steve, KC0YA, mentioned that Harbor Freight carries vacuum
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> --
> Onwards and Upwards,
> Paul
>
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
University of North Dakota

4968. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 17:47:45 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4968

I was thinking of packing the outside of the "bell jar" with dry ice. I agree that placing it inside would lead to pressure increases as the CO2 sublimated. Now, what about embrittling the plastic? I suppose that if the plastic is thick enough, it may not be a problem. Of course one way to find out is to do it and see what happens. I would make a cover of 2" styrofoam to cover the bell jar for insulation and protection.

On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie <nordlie@...> wrote:

> That's a slick system, no doubt. I'd be a little concerned
> about putting dry ice inside it though, won't the sublimation
> of the dry ice drive the pressure up and limit the simulated
> altitude you can reach?
>
> The other concern is if the jar is plastic, dry ice temperatures
> might make it brittle and prone to implosion. Or am I being
> too cautious?
>
> What we're looking at here is taking a steel tank from an air
> compressor, cutting the end off, and welding on some flanges
> to allow it to be clamped shut again. Paul, what do you think
> about holding dry ice against the outside of this, and having
> another layer of insulation over that?
>
> On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> > So all we need to do now is pack it with dry ice and we'll have a
> > complete near space simulation chamber. I wonder if that's worth an
> > article? Well, I guess I know what I'm going to spend my money on.
> >
> > Paul
> >
> >
> >
> > On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...> wrote:
> > Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL
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> > the ARHAB gang who may be interested.
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> > BTW, that plastic gasketted refrigerator jar is slick! Kinda
> > small for a full
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> > 73 de Mike W5VSI

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> > > Yup, that's the one. Also see:
> > >
> > > http://www.belljar.net/634hypo.pdf (your mixing
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> > > www.belljar.net/basics.htm (general data for
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> > > http://www.pcprg.com/chamber.htm
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> > > The final site shows a setup IDENTICAL to what I have in
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> > > but I'll get over it (!).
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> > > There's quite a bit of amateur vacuum stuff on the web - I
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> > > hand pump coming from an eBay guy - we'll see what it can
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> > >
> > > Take Care - KC0YA
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> > >
> > >
> > > -----Original Message-----
> > > From: Mike Manes [mailto:mrmanes@...]
> > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > > Cc: Steve Osborne KC0YA
> > > Subject: Harbor Freight high vacuum pump - cheap!
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> > > Steve, KC0YA, mentioned that Harbor Freight carries vacuum
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> Research Assistant/Systems Administrator
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>
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Onwards and Upwards,
Paul

4969. GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 17:49:34 UTC
From: L. Paul Verhage
Topic: 599 Message: 4969

Here's my new digs. I'm trying to have GPSL held here (in beautiful Topeka).
http://www.kats.tec.ks.us/

Paul

--
Onwards and Upwards,
Paul

4970. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 19:15:19 UTC
From: John Nordlie
Topic: 4963 Message: 4970

I would agree that if the plastic was thick, it might not
be an issue. I misunderstood your previous comment on where
the dry ice should go, sorry. I like the idea of a foam shield
that goes over the whole thing, both to insulate it and act
as a barrier if the chamber did crack. There is certainly
nothing to be lost by trying it.

I look forward to the article!

On Wed, 2009-01-28 at 11:47 -0600, L. Paul Verhage wrote:
> I was thinking of packing the outside of the "bell jar" with dry ice.
> I agree that placing it inside would lead to pressure increases as the
> CO2 sublimated. Now, what about embrittling the plastic? I suppose
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> On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie <nordlie@...>
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> compressor, cutting the end off, and welding on some flanges
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> > > From: Mike Manes [mailto:mrmanes@...]
> > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > To: GPSL Balloon Reflector; ANSR Balloon Reflector
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> > > Subject: Harbor Freight high vacuum pump - cheap!
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> > > Steve, KC0YA, mentioned that Harbor Freight
> carries vacuum
> > pumps, primarily
> > > intended for air condition system maintenance.
> This one
> > pulls down to 75
> > > microns (0,075 mmHg or 74 milliTorr), which is WAY
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> > than 200 Kft MSL
> > > pressure altitude - and only $60. There are other
> > higher-power models
> > > available at more $$$, but this should do fine
> with < 1 cuft
> > chamber.
> > >
> > >
> >
> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
> > >
> > > I've seen some homebrew bell jars made from Pyrex
> and
> > stainless steel mixing
> > > bowls. Now, if only we could get cheap mercury
> > manometers ... in a pinch,
> > > a surplus Viz radiosonde anaeroid baro pressure
> mux can
> > serve as a rough
> > > altimeter.
> > >
> > > 73 de Mike W5VSI
> >
> > --
> > Mike Manes mrmanes@... Tel:

> 303-979-4899
> > "Things should be made as simple as possible, but
> not more
> > so."
> > A. Einstein
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> > Yahoo! Groups Links
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> > --
> > Onwards and Upwards,
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center

University of North Dakota

4971. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 22:35:33 UTC
From: Mike Manes
Topic: 4963 Message: 4971

Hi Paul,

Not sure what the CO2 will do to your pump seals, since it forms carbolic acid in contact with water - this is where the "buzz" comes from in carbonated beverages. Might wanna keep the dry ice on the outside of the chamber.

73 de Mike W5VSI

L. Paul Verhage wrote:
> So all we need to do now is pack it with dry ice and we'll have a
> complete near space simulation chamber. I wonder if that's worth an
> article? Well, I guess I know what I'm going to spend my money on.
>
> Paul
>
> On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL for the
> rest of
> the ARHAB gang who may be interested.
>
> BTW, that plastic gasketted refrigerator jar is slick! Kinda small
> for a full
> payload, but plenty big enuf for testing pressure-sensitive
> components. That
> pump looks just a WHOLE lot like the one from Harbor Freight.
>
> 73 de Mike W5VSI
>
> S. Osborne wrote:
> > Hi Mike -
> >
> > Yup, that's the one. Also see:
> >
> > http://www.belljar.net/634hypo.pdf (your mixing bowl idea)
> >
> > www.belljar.net/basics.htm
> <http://www.belljar.net/basics.htm> (general data for amateur vac
> > systems)
> >
> > http://www.pcprg.com/chamber.htm
> >
> > The final site shows a setup IDENTICAL to what I have in mind. I
> thought I
> > had an original idea - then found this site - pooped my bubble.

> PBC ensued,
> > but I'll get over it (!).
> >
> > There's quite a bit of amateur vacuum stuff on the web - I was
> amazed. I'm
> > saving my lunch money to buy that little pump from HF. I have
> that little
> > hand pump coming from an eBay guy - we'll see what it can do.
> >
> > Take Care - KC0YA
> >
> >
> > -----Original Message-----
> > From: Mike Manes [mailto:mrmanes@...
> <mailto:mrmanes@...>]
> > Sent: Tuesday, January 27, 2009 2:24 PM
> > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > Cc: Steve Osborne KC0YA
> > Subject: Harbor Freight high vacuum pump - cheap!
> >
> > Steve, KC0YA, mentioned that Harbor Freight carries vacuum pumps,
> primarily
> > intended for air condition system maintenance. This one pulls
> down to 75
> > microns (0,075 mmHg or 74 milliTorr), which is WAY higher than
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> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
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> > I've seen some homebrew bell jars made from Pyrex and stainless
> steel mixing
> > bowls. Now, if only we could get cheap mercury manometers ... in
> a pinch,
> > a surplus Viz radiosonde anaeroid baro pressure mux can serve as
> a rough
> > altimeter.
> >
> > 73 de Mike W5VSI
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> Onwards and Upwards,
> Paul
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4972. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-28 22:48:29 UTC
From: Mike Manes
Topic: 4963 Message: 4972

Or you could make your "bell jar" out of pyrex and stainless mixing bowls.

L. Paul Verhage wrote:
> I was thinking of packing the outside of the "bell jar" with dry ice. I
> agree that placing it inside would lead to pressure increases as the CO2
> sublimated. Now, what about embrittling the plastic? I suppose that if
> the plastic is thick enough, it may not be a problem. Of course one way
> to find out is to do it and see what happens. I would make a cover of
> 2" styrofoam to cover the bell jar for insulation and protection.
>
> On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie <nordlie@...
> <mailto:nordlie@...>> wrote:
>
> That's a slick system, no doubt. I'd be a little concerned
> about putting dry ice inside it though, won't the sublimation
> of the dry ice drive the pressure up and limit the simulated
> altitude you can reach?
>
> The other concern is if the jar is plastic, dry ice temperatures
> might make it brittle and prone to implosion. Or am I being
> too cautious?
>
> What we're looking at here is taking a steel tank from an air
> compressor, cutting the end off, and welding on some flanges
> to allow it to be clamped shut again. Paul, what do you think
> about holding dry ice against the outside of this, and having
> another layer of insulation over that?
>
> On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> > So all we need to do now is pack it with dry ice and we'll have a
> > complete near space simulation chamber. I wonder if that's worth an
> > article? Well, I guess I know what I'm going to spend my money on.
> >
> > Paul
> >
> >
> >
> > On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
> > Hey, thanks for those links, Steve. I'm cc'ing 'em to GPSL
> > for the rest of
> > the ARHAB gang who may be interested.
> >
> > BTW, that plastic gasketted refrigerator jar is slick! Kinda
> > small for a full

> > payload, but plenty big enuf for testing pressure-sensitive
> > components. That
> > pump looks just a WHOLE lot like the one from Harbor Freight.
> >
> > 73 de Mike W5VSI
> >
> > S. Osborne wrote:
> > > Hi Mike -
> > >
> > > Yup, that's the one. Also see:
> > >
> > > http://www.belljar.net/634hypo.pdf (your mixing
> > bowl idea)
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> > > www.belljar.net/basics.htm
> <http://www.belljar.net/basics.htm> (general data for
> > amateur vac
> > > systems)
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> > > http://www.pcprg.com/chamber.htm
> > >
> > > The final site shows a setup IDENTICAL to what I have in
> > mind. I thought I
> > > had an original idea - then found this site - pooped my
> > bubble. PBC ensued,
> > > but I'll get over it (!).
> > >
> > > There's quite a bit of amateur vacuum stuff on the web - I
> > was amazed. I'm
> > > saving my lunch money to buy that little pump from HF. I
> > have that little
> > > hand pump coming from an eBay guy - we'll see what it can
> > do.
> > >
> > > Take Care - KC0YA
> >
> > >
> > >
> > > -----Original Message-----
> > > From: Mike Manes [mailto:mrmanes@...
> <mailto:mrmanes@...>]
> > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > > Cc: Steve Osborne KC0YA
> > > Subject: Harbor Freight high vacuum pump - cheap!
> > >
> > > Steve, KC0YA, mentioned that Harbor Freight carries vacuum
> > pumps, primarily
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> > pulls down to 75

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> > chamber.
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> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
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> > > I've seen some homebrew bell jars made from Pyrex and
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4973. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 14:10:14 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4973

That's what I was planning on. I'll pack the outside of the chamber with dry ice. The other benefit is that the dry ice won't sublimate and become additional gas to be pumped out.

Thinking about last night's finding. The phase diagram shows that CO2 is not stable as a gas or solid at low pressure. So how does Mars retain a CO2 polar cap? Umm, more research is needed.

Paul "Mr. Riddles" Verhage

On Wed, Jan 28, 2009 at 4:48 PM, Mike Manes <mrmanes@...> wrote:

> Or you could make your "bell jar" out of pyrex and stainless mixing bowls.
>
> L. Paul Verhage wrote:
> > I was thinking of packing the outside of the "bell jar" with dry ice. I
> > agree that placing it inside would lead to pressure increases as the CO2
> > sublimated. Now, what about embrittling the plastic? I suppose that if
> > the plastic is thick enough, it may not be a problem. Of course one way
> > to find out is to do it and see what happens. I would make a cover of
> > 2" styrofoam to cover the bell jar for insulation and protection.
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> > On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie <nordlie@...
> > <mailto:nordlie@...>> wrote:
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> > That's a slick system, no doubt. I'd be a little concerned
> > about putting dry ice inside it though, won't the sublimation
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> > What we're looking at here is taking a steel tank from an air
> > compressor, cutting the end off, and welding on some flanges
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> > about holding dry ice against the outside of this, and having
> > another layer of insulation over that?
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> > On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> > > So all we need to do now is pack it with dry ice and we'll have a
> > > complete near space simulation chamber. I wonder if that's worth
> an
> > > article? Well, I guess I know what I'm going to spend my money
> on.

> > >
> > > Paul
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> > >
> > >
> > > On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes <mrmanes@...
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> > > Hey, thanks for those links, Steve. I'm cc'ing 'em to
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> > > the ARHAB gang who may be interested.
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> > > BTW, that plastic gasketted refrigerator jar is slick!
> Kinda
> > > small for a full
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> pressure-sensitive
> > > components. That
> > > pump looks just a WHOLE lot like the one from Harbor
> Freight.
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> > > 73 de Mike W5VSI
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> > > S. Osborne wrote:
> > > > Hi Mike -
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> > > > Yup, that's the one. Also see:
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> > > > http://www.belljar.net/634hypo.pdf (your
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> > > > amateur vac
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> > > > The final site shows a setup IDENTICAL to what I have in
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> > > > There's quite a bit of amateur vacuum stuff on the web -
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> > > > saving my lunch money to buy that little pump from HF.
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> > > do.
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> > > > Take Care - KC0YA
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> > > >
> > > > -----Original Message-----
> > > > From: Mike Manes [mailto:mrmanes@...
> > <mailto:mrmanes@...>]
> > > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > > > Cc: Steve Osborne KC0YA
> > > > Subject: Harbor Freight high vacuum pump - cheap!
> > > >
> > > > Steve, KC0YA, mentioned that Harbor Freight carries
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> > > Mike Manes mrmanes@...
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Onwards and Upwards,
Paul

4974. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 17:39:31 UTC
From: James Hannon
Topic: 4963 Message: 4974

CO2 is a solid at very low pressure when the temperature is below about -125C.
Mars is cold!Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 1/29/2009 8:10:14 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!That's what I was planning on. I'll pack the outside of the chamber with dry ice. The other benefit is that the dry ice won't sublimate and become additional gas to be pumped out.Thinking about last night's finding. The phase diagram shows that CO2 is not stable as a gas or solid at low pressure. So how does Mars retain a CO2 polar cap? Umm, more research is needed.Paul "Mr. Riddles" Verhage

4975. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 17:54:39 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4975

I see the phase diagram I looked at yesterday doesn't go that low. I can see however, that the solid phase is trending that way.

Paul

On Thu, Jan 29, 2009 at 11:39 AM, James Hannon <jmhannon@...> wrote:

> CO2 is a solid at very low pressure when the temperature is below about
> -125C.
> Mars is cold!
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 1/29/2009 8:10:14 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!
>
> That's what I was planning on. I'll pack the outside of the chamber with
> dry ice. The other benefit is that the dry ice won't sublimate and become
> additional gas to be pumped out.
>
> Thinking about last night's finding. The phase diagram shows that CO2 is
> not stable as a gas or solid at low pressure. So how does Mars retain a CO2
> polar cap? Umm, more research is needed.
>
> Paul "Mr. Riddles" Verhage
>
>
>

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Onwards and Upwards,
Paul

4976. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 17:57:34 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4976

My students tested the pump last night. It works. I was concerned that since it was Harbor Frieght, it might have a problem. Now to find a bell jar. I'll try the airtight flour containers used on the webpage we were given.

Paul

PS. The pump does not come filled with oil. Be sure you fill it with the vacuum oil they include before you turn it on.
On Thu, Jan 29, 2009 at 11:54 AM, L. Paul Verhage <nearsys@...> wrote:

> I see the phase diagram I looked at yesterday doesn't go that low. I can
> see however, that the solid phase is trending that way.
>
> Paul
>
> On Thu, Jan 29, 2009 at 11:39 AM, James Hannon <jmhannon@...>wrote:
>
>> CO2 is a solid at very low pressure when the temperature is below about
>> -125C.
>> Mars is cold!
>>
>> Jim Hannon
>> http://www.fmtcs.com/web/jmhannon/
>> 42,11.90N,91,39.26W
>> WB0TXL
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>> -----Original Message-----
>> From: "L. Paul Verhage" <nearsys@...>
>> Sent 1/29/2009 8:10:14 AM
>> To: GPSL@yahoogroups.com
>> Subject: Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!
>>
>> That's what I was planning on. I'll pack the outside of the chamber with
>> dry ice. The other benefit is that the dry ice won't sublimate and become
>> additional gas to be pumped out.
>>
>> Thinking about last night's finding. The phase diagram shows that CO2 is
>> not stable as a gas or solid at low pressure. So how does Mars retain a CO2
>> polar cap? Umm, more research is needed.
>>
>> Paul "Mr. Riddles" Verhage
>>
>>
>>

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> --
> Onwards and Upwards,
> Paul
>

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Onwards and Upwards,
Paul

4977. Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 19:55:31 UTC
From: Dave
Topic: 4963 Message: 4977

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Paul,
>
> Not sure what the CO2 will do to your pump seals, since it forms carbolic acid
> in contact with water -

No, CO2 in contact with water forms Carbonic Acid, not Carbolic Acid. Carbolic Acid is a Benzene derivative, and was used as an early disinfectant (e.g., I wouldn't want to drink THAT!).

http://en.wikipedia.org/wiki/Phenol
http://en.wikipedia.org/wiki/Carbonic_acid

> this is where the "buzz" comes from in carbonated
> beverages.

Right. Carbonic Acid, which is basically CO2 dissolved in water, is what gives carbonated beverages their fizziness.

> Might wanna keep the dry ice on the outside of the chamber.

Carbonic Acid is a rather weak acid. It may or may not damage pump seals.

> 73 de Mike W5VSI

Dave
WA4QAL

4978. Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 19:58:30 UTC
From: Dave
Topic: 4963 Message: 4978

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> My students tested the pump last night. It works. I was concerned that
> since it was Harbor Frieght, it might have a problem. Now to find a
bell
> jar. I'll try the airtight flour containers used on the webpage we were
> given.

Please use caution when working with vacuums. It's possible for
some (glass) enclosures to shatter if an implosion occurs, and
flying shards are no fun at all. I like to cover my bell jars with
a piece of plastic, just in case the worst happens.

> Paul

Dave

> PS. The pump does not come filled with oil. Be sure you fill it
with the
> vacuum oil they include before you turn it on.

4979. Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-29 22:18:17 UTC
From: Al Wolfe
Topic: 4963 Message: 4979

<Not sure what the CO2 will do to your pump seals, since it forms carbolic
acid
<in contact with water..............

Actually, it's carbonic acid not carbolic acid.

H2CO3 for carbonic vs. C6H5OH for carbolic, commonly used as a disinfectant.

Al, K9SI

4980. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 04:13:35 UTC
From: Mike Manes
Topic: 4963 Message: 4980

Unfortunately, the EOSS chamber is so big that dry ice on the outside probably wouldn't draw out much heat from the DUT. But I've yet to find a component that's sensitive to both low pressure and temperature simultaneously, although no doubt some do exist.

All you have to do next is add a mondo UV light source to make a real solar-vac chamber!

73 de Mike W5VSI

L. Paul Verhage wrote:
> That's what I was planning on. I'll pack the outside of the chamber
> with dry ice. The other benefit is that the dry ice won't sublimate and
> become additional gas to be pumped out.
>
> Thinking about last night's finding. The phase diagram shows that CO2
> is not stable as a gas or solid at low pressure. So how does Mars
> retain a CO2 polar cap? Umm, more research is needed.
>
> Paul "Mr. Riddles" Verhage
>
> On Wed, Jan 28, 2009 at 4:48 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Or you could make your "bell jar" out of pyrex and stainless mixing
> bowls.
>
> L. Paul Verhage wrote:
> > I was thinking of packing the outside of the "bell jar" with dry
> ice. I
> > agree that placing it inside would lead to pressure increases as
> the CO2
> > sublimated. Now, what about embrittling the plastic? I suppose
> that if
> > the plastic is thick enough, it may not be a problem. Of course
> one way
> > to find out is to do it and see what happens. I would make a
> cover of
> > 2" styrofoam to cover the bell jar for insulation and protection.
> >
> > On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie
> <nordlie@... <mailto:nordlie@...>
> > <mailto:nordlie@... <mailto:nordlie@...>>> wrote:
> >
> > That's a slick system, no doubt. I'd be a little concerned
> > about putting dry ice inside it though, won't the sublimation

> > of the dry ice drive the pressure up and limit the simulated
> > altitude you can reach?
> >
> > The other concern is if the jar is plastic, dry ice temperatures
> > might make it brittle and prone to implosion. Or am I being
> > too cautious?
> >
> > What we're looking at here is taking a steel tank from an air
> > compressor, cutting the end off, and welding on some flanges
> > to allow it to be clamped shut again. Paul, what do you think
> > about holding dry ice against the outside of this, and having
> > another layer of insulation over that?
> >
> > On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> > > So all we need to do now is pack it with dry ice and we'll
> have a
> > > complete near space simulation chamber. I wonder if
> that's worth an
> > > article? Well, I guess I know what I'm going to spend my
> money on.
> > >
> > > Paul
> > >
> > >
> > >
> > > On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes
> <mrmanes@... <mailto:mrmanes@...>
> > <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
> > > Hey, thanks for those links, Steve. I'm cc'ing
> 'em to GPSL
> > > for the rest of
> > > the ARHAB gang who may be interested.
> > >
> > > BTW, that plastic gasketted refrigerator jar is
> slick! Kinda
> > > small for a full
> > > payload, but plenty big enuf for testing
> pressure-sensitive
> > > components. That
> > > pump looks just a WHOLE lot like the one from
> Harbor Freight.
> > >
> > > 73 de Mike W5VSI
> > >
> > > S. Osborne wrote:
> > > > Hi Mike -
> > > >
> > > > Yup, that's the one. Also see:
> > > >
> > > > http://www.belljar.net/634hypo.pdf

> (your mixing
> > > bowl idea)
> > > >
> > > > www.belljar.net/basics.htm
> <http://www.belljar.net/basics.htm>
> > <http://www.belljar.net/basics.htm> (general data for
> > > amateur vac
> > > > systems)
> > > >
> > > > http://www.pcprg.com/chamber.htm
> > > >
> > > > The final site shows a setup IDENTICAL to what I
> have in
> > > mind. I thought I
> > > > had an original idea - then found this site -
> pooped my
> > > bubble. PBC ensued,
> > > > but I'll get over it (!).
> > > >
> > > > There's quite a bit of amateur vacuum stuff on
> the web - I
> > > was amazed. I'm
> > > > saving my lunch money to buy that little pump
> from HF. I
> > > have that little
> > > > hand pump coming from an eBay guy - we'll see
> what it can
> > > do.
> > > >
> > > > Take Care - KC0YA
> > >
> > > >
> > > >
> > > > -----Original Message-----
> > > > From: Mike Manes [mailto:mrmanes@...
> <mailto:mrmanes@...>
> > <mailto:mrmanes@... <mailto:mrmanes@...>>]
> > > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > > To: GPSL Balloon Reflector; ANSR Balloon Reflector
> > > > Cc: Steve Osborne KC0YA
> > > > Subject: Harbor Freight high vacuum pump - cheap!
> > > >
> > > > Steve, KC0YA, mentioned that Harbor Freight
> carries vacuum
> > > pumps, primarily
> > > > intended for air condition system maintenance.
> This one
> > > pulls down to 75
> > > > microns (0,075 mmHg or 74 milliTorr), which is
> WAY higher

> > > than 200 Kft MSL
> > > > pressure altitude - and only $60. There are other
> > > higher-power models
> > > > available at more $$$, but this should do fine
> with < 1
> > cuft
> > > chamber.
> > > >
> > > >
> > >
> >
> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
> > > >
> > > > I've seen some homebrew bell jars made from
> Pyrex and
> > > stainless steel mixing
> > > > bowls. Now, if only we could get cheap mercury
> > > manometers ... in a pinch,
> > > > a surplus Viz radiosonde anaeroid baro pressure
> mux can
> > > serve as a rough
> > > > altimeter.
> > > >
> > > > 73 de Mike W5VSI
> > >
> > > --
> > > Mike Manes mrmanes@...
> <mailto:mrmanes@...>
> > <mailto:mrmanes@... <mailto:mrmanes@...>>
> Tel: 303-979-4899
> > > "Things should be made as simple as possible, but
> not more
> > > so."
> > > A. Einstein
> > >
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> > > Yahoo! Groups Links
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> > > --
> > > Onwards and Upwards,
> > > Paul
> > >
> > --

> > --
> > John Nordlie
> > Research Assistant/Systems Administrator
> > Regional Weather Information Center
> > University of North Dakota
> > --
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> > mailto:GPSL-fullfeatured@yahoogroups.com
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> Onwards and Upwards,
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

4981. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 04:23:53 UTC
From: Mike Manes
Topic: 4963 Message: 4981

Surface baro pressure on Mars is about 10 mbar - like Earth at 100K' MSL. This is why EOSS has flown some Mars-destined payloads.
73 de Mike W5VSI, EOSS

James Hannon wrote:
> CO2 is a solid at very low pressure when the temperature is below about
> -125C.
> Mars is cold!
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 1/29/2009 8:10:14 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!
>
> That's what I was planning on. I'll pack the outside of the chamber
> with dry ice. The other benefit is that the dry ice won't sublimate and
> become additional gas to be pumped out.
>
> Thinking about last night's finding. The phase diagram shows that CO2
> is not stable as a gas or solid at low pressure. So how does Mars
> retain a CO2 polar cap? Umm, more research is needed.
>
> Paul "Mr. Riddles" Verhage
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4982. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 04:28:52 UTC
From: Mike Manes
Topic: 4963 Message: 4982

Great! Steve KC0YA will be happy to learn that.

Note that all of my machine tools are Chinese-made. They aren't Bridgeport or Hardinge quality, but they get the job done - and they fit my budget (kinda). Chinese products nowadays are similar in quality to Japan's in late 60's & early 70's.

73 de Mike W5VSI

L. Paul Verhage wrote:
> My students tested the pump last night. It works. I was concerned that
> since it was Harbor Frieght, it might have a problem. Now to find a
> bell jar. I'll try the airtight flour containers used on the webpage we
> were given.
>
> Paul
>
> PS. The pump does not come filled with oil. Be sure you fill it with
> the vacuum oil they include before you turn it on.
>
> On Thu, Jan 29, 2009 at 11:54 AM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
> I see the phase diagram I looked at yesterday doesn't go that low. I
> can see however, that the solid phase is trending that way.
>
> Paul
>
> On Thu, Jan 29, 2009 at 11:39 AM, James Hannon <jmhannon@...
> <mailto:jmhannon@...>> wrote:
>
> CO2 is a solid at very low pressure when the temperature is
> below about -125C.
> Mars is cold!
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...
> <mailto:nearsys@...>>
> Sent 1/29/2009 8:10:14 AM

> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Subject: Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!
>
> That's what I was planning on. I'll pack the outside of the
> chamber with dry ice. The other benefit is that the dry ice
> won't sublimate and become additional gas to be pumped out.
>
> Thinking about last night's finding. The phase diagram shows
> that CO2 is not stable as a gas or solid at low pressure. So
> how does Mars retain a CO2 polar cap? Umm, more research is needed.
>
> Paul "Mr. Riddles" Verhage
>
>
>
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> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4983. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 04:30:44 UTC
From: Mike Manes
Topic: 4963 Message: 4983

pardon my typo!

Dave wrote:
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>> Hi Paul,
>>
>> Not sure what the CO2 will do to your pump seals, since it forms
> carbolic acid
>> in contact with water -
>
> No, CO2 in contact with water forms Carbonic Acid, not Carbolic Acid.
> Carbolic Acid is a Benzene derivative, and was used as an early
> disinfectant (e.g., I wouldn't want to drink THAT!).
>
> http://en.wikipedia.org/wiki/Phenol
> http://en.wikipedia.org/wiki/Carbonic_acid
>
>> this is where the "buzz" comes from in carbonated
>> beverages.
>
> Right. Carbonic Acid, which is basically CO2 dissolved in water,
> is what gives carbonated beverages their fizziness.
>
>> Might wanna keep the dry ice on the outside of the chamber.
>
> Carbonic Acid is a rather weak acid. It may or may not damage
> pump seals.
>
>> 73 de Mike W5VSI
>
> Dave
> WA4QAL
>
>
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>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

4984. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 04:34:11 UTC
From: Mike Manes
Topic: 4963 Message: 4984

Yeah, I covered the plexiglas chamber with several heavy quilts and hit behind
a wall the first time I pulled it down! The flat sides do deflect at < 10
Torr, but only about 1/8", and they're 5/8" thick. Now I sit next to it.
So far, so good ...
73 de Mike W5VSI

Dave wrote:
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>> My students tested the pump last night. It works. I was concerned that
>> since it was Harbor Frieght, it might have a problem. Now to find a
> bell
>> jar. I'll try the airtight flour containers used on the webpage we were
>> given.
>
> Please use caution when working with vacuums. It's possible for
> some (glass) enclosures to shatter if an implosion occurs, and
> flying shards are no fun at all. I like to cover my bell jars with
> a piece of plastic, just in case the worst happens.
>
>> Paul
>
> Dave
>
>> PS. The pump does not come filled with oil. Be sure you fill it
> with the
>> vacuum oil they include before you turn it on.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4985. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 14:03:09 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4985

Umm, I hear a challenge.

So let me plan to place UV LEDs inside.

I tried to find some fittings for the tank last night. I want to bolt a threaded port through the wall. I didn't see what I was looking for at ACE (under plumbing). I'll see what I can find at a auto parts house since the pump is used for AC systems.

Paul

On Thu, Jan 29, 2009 at 10:13 PM, Mike Manes <mrmanes@...> wrote:

> Unfortunately, the EOSS chamber is so big that dry ice on the outside
> probably
> wouldn't draw out much heat from the DUT. But I've yet to find a component
> that's sensitive to both low pressure and temperature simultaneously,
> although
> no doubt some do exist.
>
> All you have to do next is add a mondo UV light source to make a real
> solar-vac chamber!
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> > That's what I was planning on. I'll pack the outside of the chamber
> > with dry ice. The other benefit is that the dry ice won't sublimate and
> > become additional gas to be pumped out.
> >
> > Thinking about last night's finding. The phase diagram shows that CO2
> > is not stable as a gas or solid at low pressure. So how does Mars
> > retain a CO2 polar cap? Umm, more research is needed.
> >
> > Paul "Mr. Riddles" Verhage
> >
> > On Wed, Jan 28, 2009 at 4:48 PM, Mike Manes <mrmanes@...
> > <mailto:mrmanes@...>> wrote:
> >
> > Or you could make your "bell jar" out of pyrex and stainless mixing
> > bowls.
> >
> > L. Paul Verhage wrote:
> > > I was thinking of packing the outside of the "bell jar" with dry
> > ice. I
> > > agree that placing it inside would lead to pressure increases as

> > the CO2
> > > sublimated. Now, what about embrittling the plastic? I suppose
> > that if
> > > the plastic is thick enough, it may not be a problem. Of course
> > one way
> > > to find out is to do it and see what happens. I would make a
> > cover of
> > > 2" styrofoam to cover the bell jar for insulation and protection.
> > >
> > > On Wed, Jan 28, 2009 at 11:40 AM, John Nordlie
> > <nordlie@... <mailto:nordlie@...>
> > > <mailto:nordlie@... <mailto:nordlie@...>>>
> wrote:
> > >
> > > That's a slick system, no doubt. I'd be a little concerned
> > > about putting dry ice inside it though, won't the sublimation
> > > of the dry ice drive the pressure up and limit the simulated
> > > altitude you can reach?
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> > > The other concern is if the jar is plastic, dry ice
> temperatures
> > > might make it brittle and prone to implosion. Or am I being
> > > too cautious?
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> > > What we're looking at here is taking a steel tank from an air
> > > compressor, cutting the end off, and welding on some flanges
> > > to allow it to be clamped shut again. Paul, what do you think
> > > about holding dry ice against the outside of this, and having
> > > another layer of insulation over that?
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> > > On Wed, 2009-01-28 at 08:06 -0600, L. Paul Verhage wrote:
> > > > So all we need to do now is pack it with dry ice and we'll
> > have a
> > > > complete near space simulation chamber. I wonder if
> > that's worth an
> > > > article? Well, I guess I know what I'm going to spend my
> > money on.
> > > >
> > > > Paul
> > > >
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> > > >
> > > > On Tue, Jan 27, 2009 at 9:51 PM, Mike Manes
> > <mrmanes@... <mailto:mrmanes@...>
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> wrote:
> > > > > Hey, thanks for those links, Steve. I'm cc'ing
> > 'em to GPSL
> > > > > for the rest of
> > > > > the ARHAB gang who may be interested.

> > > >
> > > > BTW, that plastic gasketted refrigerator jar is
> > slick! Kinda
> > > > small for a full
> > > > payload, but plenty big enuf for testing
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> > > > pump looks just a WHOLE lot like the one from
> > Harbor Freight.
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> > > > > 73 de Mike W5VSI
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> > > > > S. Osborne wrote:
> > > > > > Hi Mike -
> > > > > >
> > > > > > Yup, that's the one. Also see:
> > > > > >
> > > > > > http://www.belljar.net/634hypo.pdf
> > > (your mixing
> > > > > bowl idea)
> > > > > >
> > > > > > www.belljar.net/basics.htm
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> > > > > > The final site shows a setup IDENTICAL to what I
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> > > > > > had an original idea - then found this site -
> > > pooped my
> > > > > bubble. PBC ensued,
> > > > > > but I'll get over it (!).
> > > > > >
> > > > > > There's quite a bit of amateur vacuum stuff on
> > > the web - I
> > > > > was amazed. I'm
> > > > > > saving my lunch money to buy that little pump
> > > from HF. I
> > > > > have that little
> > > > > > hand pump coming from an eBay guy - we'll see
> > > what it can
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> > > > > >
> > > > > > Take Care - KC0YA
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> > > > > -----Original Message-----
> > > > > From: Mike Manes [mailto:mrmanes@...
> > <mailto:mrmanes@...>
> > > <mailto:mrmanes@... <mailto:mrmanes@...>>]
> > > > > Sent: Tuesday, January 27, 2009 2:24 PM
> > > > > To: GPSL Balloon Reflector; ANSR Balloon
> Reflector
> > > > > Cc: Steve Osborne KC0YA
> > > > > Subject: Harbor Freight high vacuum pump - cheap!
> > > > >
> > > > > Steve, KC0YA, mentioned that Harbor Freight
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> http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=98074
> > > > > >
> > > > > I've seen some homebrew bell jars made from
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> > > > > stainless steel mixing
> > > > > > bowls. Now, if only we could get cheap mercury
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> > > > > a surplus Viz radiosonde anaeroid baro pressure
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> > > > > serve as a rough
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> > > > > > 73 de Mike W5VSI
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> > > > > --
> > > > > Mike Manes mrmanes@...
> > <mailto:mrmanes@...>
> > > <mailto:mrmanes@... <mailto:mrmanes@...>>

> > Tel: 303-979-4899
> > > > "Things should be made as simple as possible, but
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> > > > A. Einstein
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Onwards and Upwards,
Paul

4986. Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-30 19:44:35 UTC
From: Dave
Topic: 4963 Message: 4986

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Unfortunately, the EOSS chamber is so big that dry ice on the
> outside probably wouldn't draw out much heat from the DUT. But
> I've yet to find a component that's sensitive to both low pressure
> and temperature simultaneously, although no doubt some do exist.

You might try a batch of Peltier cells. These are used in modern computers for CPU coolers, and they can move quite a bit of heat (e.g., produce quite a low temperature), although they do gobble a bit of power. Make sure the hot side has a good heat-sink for maximum cooling, though.

You can frequently pick them up on e-bay for a not too unreasonable price.

http://en.wikipedia.org/wiki/Thermoelectric_effect

> All you have to do next is add a mondo UV light source to make
> a real solar-vac chamber!

You'd need a BUNCH of them to imitate the sun.

> 73 de Mike W5VSI

Dave
WA4QAL

4987. WB8ELK balloon to fly Saturday at 1:00 pm CST from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 11:39:30 UTC
From: wb8elk@aol.com
Topic: 4987 Message: 4987

NSSTC center - across from UAH campus in Huntsville AL

Payload: 750 milliwatts on 14.077 MHz USB (center carrier of 14.0785).

In order: RTTY, Feld-Hell, DominoEX (5 baud, 11 baud then 22 baud).

Predicted landing zone: Dalton/Chatsworth GA.

- Bill WB8ELK

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4988. Re: [GPSL] WB8ELK balloon to fly Saturday at 1:00 pm CST from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 18:52:56 UTC
From: Joe
Topic: 4987 Message: 4988

Anyone hear from Bill yet?

wb8elk@... wrote:

> NSSTC center - across from UAH campus in Huntsville AL
>
> Payload: 750 milliwatts on 14.077 MHz USB (center carrier of 14.0785).
>
> In order: RTTY, Feld-Hell, DominoEX (5 baud, 11 baud then 22 baud).
>
> Predicted landing zone: Dalton/Chatsworth GA.
>
> - Bill WB8ELK
>
>
> ---
> A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
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>

4989. Re: [Balloonatics] Re: [GPSL] WB8ELK balloon to fly Saturday at 1:00 pm CST from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 19:34:16 UTC
From: Joe
Topic: 4989 Message: 4989

What freq?

USB?

etc..

Ps I'm in our chat room if anyones interested,

Joe WB9SBD Near Space Sciences
http://www.qsl.net/wb9sbd/chat.html

Alan Sieg WB5RMG wrote:

>I am hearing Bill's Tx now S9+++ , about 5 miles from launch site...
>
>
>
>
>>Anyone hear from Bill yet?
>>
>>wb8elk@... wrote:
>>
>>
>>>NSSTC center - across from UAH campus in Huntsville AL
>>>Payload: 750 milliwatts on 14.077 MHz USB (center carrier of 14.0785).
>>>In order: RTTY, Feld-Hell, DominoEX (5 baud, 11 baud then 22 baud).
>>>Predicted landing zone: Dalton/Chatsworth GA.
>>>- Bill WB8ELK
>>>
>>>
>
> /;^)
>
>

4990. WB8ELK balloon has landed aroun 2209z - if anyone copies the landing spot pseQSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 22:26:28 UTC
From: wb8elk@aol.com
Topic: 4990 Message: 4990

Jack...if you're hearing it at 2209z...it's on the ground....hopefully you'll get enough signal to get the final landing spot....it's just east of Chatsworth GA

I was able to copy that 2206z transmission here on ground wave at 5054m altitude...but it was getting pretty weak....DominoEX modes really pulled it in for me.

If you can run MultiPSK...you might try the DominoEX mode 5,11 and 22.....if you can barely hear the signal, you'll still be able to pull in the data with DominoEX.

Anyone else have copy on it?...looks like Arizona has the right skip today.

- Bill WB8ELK
**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62)

4991. Re: [Balloon_Sked] WB8ELK balloon has landed aroun 2209z - if anyone copies the landing spot pseQSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 22:30:47 UTC
From: Joe
Topic: 4990 Message: 4991

This absolutely drove me nuts Bill.

All I was hearing on the band was 4 land signals, and STRONG ones like
20 over. Yet I never heard one peep of the balloon.

how weird is that!?

Joer

wb8elk@... wrote:

> Jack...if you're hearing it at 2209z...it's on the ground....hopefully
> you'll get enough signal to get the final landing spot....it's just
> east of Chatsworth GA
>
> I was able to copy that 2206z transmission here on ground wave at
> 5054m altitude...but it was getting pretty weak....DominoEX modes
> really pulled it in for me.
>
>
> If you can run MultiPSK...you might try the DominoEX mode 5,11 and
> 22.....if you can barely hear the signal, you'll still be able to pull
> in the data with DominoEX.
>
> Anyone else have copy on it?...looks like Arizona has the right skip
> today.
>
> - Bill WB8ELK
>
> ---
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creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62>
>

4992. Re: [Ballooning] WB8ELK balloon to fly Saturday at 1:00 pm CST from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 22:32:15 UTC
From: Barry L. Lankford
Topic: 4987 Message: 4992

Bill,

I thought the balloon would be down by the time I got home around 3:30pm (2130Z), so I was pleasantly surprised to hear it loud and clear when I turned on my FT-817:

Here are the last DominoEX transmissions I received:

> -WB8ELK/46/215811/3446.88/08447.35/7009.5M/11/2/ eee
> -WB8ELK/46/215811/3446.88/08447.35/7009.5M/11/2/
>
>
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/0/
>
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/1/ eee
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/1/
>
>
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/2/ eee
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/2/ eee
> -WB8ELK/47/220208/3445.73/08444.71/5054.0M/11/2/
>

It appeared be on its way down, and I lost it quickly around 2208Z.

I have an audio recording of it from around 2140 onwards.

Barry N4MSJ

4993. Re: [GPSL] Re: [Balloon_Sked] WB8ELK balloon has landed aroun 2209z - if anyone copies the landing spot pseQSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 23:06:29 UTC
From: Roger Hammond
Topic: 4990 Message: 4993

Joe,

I had the same result here in Nebraska.

Rog KC0MWM

On Sat, Jan 31, 2009 at 4:30 PM, Joe <nss@...> wrote:

> This absolutely drove me nuts Bill.
>
> All I was hearing on the band was 4 land signals, and STRONG ones like 20
> over. Yet I never heard one peep of the balloon.
>
> how weird is that!?
>
> Joer
>
>
> wb8elk@... wrote:
>
> Jack...if you're hearing it at 2209z...it's on the ground....hopefully
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> Chatsworth GA
>
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> in for me.
>
>
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> 22.....if you can barely hear the signal, you'll still be able to pull in
> the data with DominoEX.
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> Anyone else have copy on it?...looks like Arizona has the right skip today.
>
> - Bill WB8ELK
>
> ------------------------------
> *A Good Credit Score is 700 or Above. See yours in just 2 easy steps!<http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62>
> *
>
>
>

4994. Re: [GPSL] Re: [Balloon_Sked] WB8ELK balloon has landed aroun 2209z - if any...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-01-31 23:21:52 UTC
From: wb8elk@aol.com
Topic: 4994 Message: 4994

Hi Joe....4-land is pretty large...you may have been copying Florida folks....I think the skip today was 1800 miles or more on 20m....I wish I could've flown a larger antenna to try it on 40m...I really like the day and night propagation on 40m....but 20m was at my limit for attaching to the ozonesonde as a hitchhiker. I'll have to do 40m as a standalone flight from my farm which I can do in February.

- Bill WB8ELK

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4995. WB8ELK balloon payload has been located but is still up in a tree

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-01 04:51:23 UTC
From: wb8elk@aol.com
Topic: 4995 Message: 4995

Today's flight went up over 92,034 feet (highest good telemetry frame). The GPS received up to 11 satellites during the flight but would sometimes seem to repeat a position lat/lon every once in awhile even though 11 satellites were shown to be tracking.....other than that, good signals were received by line-of-sight ground wave as far as Ohio, NC, GA and AL....Skip conditions on 20m was quite long and the only DX reception report came from Jack W7JLC who copied quite a number of good reports on RTTY and CW from the Phoenix, AZ area over 1800 miles away.

The payload was a 1-watt transmitter with an onboard Inventek GPS receiver with active patch. It ran on 6 AA lithium batteries at around 9 volts and weighed 12 ounces total with a dipole wire antenna (22 gauge wire).

When the signal got weak here just as it was landing, the DominoEX modes really came through with perfect copy even though nothing was being heard on RTTY, Hellscreiber or CW....even the high speed DominoEX22 worked great on weak signals.

The payload landed about 5 miles southeast of Chatsworth GA and has been located by Shane N4XWC, Ron KC7RW and Chris KC4GNX. Since Shane had no HF equipment along with him, he first DFed the ozonesonde 403.2 MHz payload to a ravine south of Fort Mountain GA. After hiking in the wilderness down a steep slope in the middle of the night he turned back and met up with Ron and Chris who managed to decode the actual landing position on the HF telemetry from their mobile rig. It turned out Shane was only 200 feet from the payload in his first DF attempt.

They managed to pull the parachute and balloon shards from the tree but the ozonesonde and the HF payload still are up in the tree.

For those of you who want to try to hear it on 14.077 MHz, it will probably still be transmitting until about noon on Sunday.

Here's some info on the flight and landing site maps:

http://www.wb8elk.com (http://www.wb8elk.com)

Landing coordinates:

34d 43.808 84d 42.019m

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100000075x1215855013x1201028747/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=DecemailfooterNO62)

4996. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-01 21:32:25 UTC
From: L. Paul Verhage
Topic: 4963 Message: 4996

I've purchased some of the parts I'll need for the environmental chamber. The plan at this time is to lay the plastic jar on it's side. A pallet containing the test subject and overhead UV LEDs slides in and the lid is closed. The top of the pallet contains a small thermometer and magnetic reed switch for the UV LEDs. The contraption sits in an open box of dry ice and gets pumped down after the temperature drops low enough. As it pumps down, a magnet placed on top of the jar turns on the LEDs. A lid goes over the box to reduce heat loss and to contain parts if it decides to implode.

I'll purchase two different UV LEDs so the spectrum is covered well.

Now to see if I can get someone at KATS to gently drill a hole for me.

Paul

On Fri, Jan 30, 2009 at 1:44 PM, Dave <wa4qal@...> wrote:

> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
> >
> > Unfortunately, the EOSS chamber is so big that dry ice on the
> > outside probably wouldn't draw out much heat from the DUT. But
> > I've yet to find a component that's sensitive to both low pressure
> > and temperature simultaneously, although no doubt some do exist.
>
> You might try a batch of Peltier cells. These are used in modern
> computers for CPU coolers, and they can move quite a bit of heat
> (e.g., produce quite a low temperature), although they do gobble a
> bit of power. Make sure the hot side has a good heat-sink for
> maximum cooling, though.
>
> You can frequently pick them up on e-bay for a not too unreasonable
> price.
>
> http://en.wikipedia.org/wiki/Thermoelectric_effect
>
> > All you have to do next is add a mondo UV light source to make
> > a real solar-vac chamber!
>
> You'd need a BUNCH of them to imitate the sun.
>
> > 73 de Mike W5VSI
>
> Dave
> WA4QAL
>
>

>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

4997. Re: [GPSL] Re: Harbor Freight high vacuum pump - cheap!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-02 05:13:56 UTC
From: Mike Manes
Topic: 4963 Message: 4997

Use isoprop or ethyl alcohol as a coolant when drilling plastic. The biggest
risk there is plastic melting from the friction and sticking to the bit.
And keep the chuck speed WAY down!
Got that T-shirt, BTW :={.
73 de Mike W5VSI

L. Paul Verhage wrote:
> I've purchased some of the parts I'll need for the environmental
> chamber. The plan at this time is to lay the plastic jar on it's side.
> A pallet containing the test subject and overhead UV LEDs slides in and
> the lid is closed. The top of the pallet contains a small thermometer
> and magnetic reed switch for the UV LEDs. The contraption sits in an
> open box of dry ice and gets pumped down after the temperature drops low
> enough. As it pumps down, a magnet placed on top of the jar turns on
> the LEDs. A lid goes over the box to reduce heat loss and to contain
> parts if it decides to implode.
>
> I'll purchase two different UV LEDs so the spectrum is covered well.
>
> Now to see if I can get someone at KATS to gently drill a hole for me.
>
> Paul
>
> On Fri, Jan 30, 2009 at 1:44 PM, Dave <wa4qal@...
> <mailto:wa4qal@...>> wrote:
>
> --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, Mike
> Manes <mrmanes@...> wrote:
> >
> > Unfortunately, the EOSS chamber is so big that dry ice on the
> > outside probably wouldn't draw out much heat from the DUT. But
> > I've yet to find a component that's sensitive to both low pressure
> > and temperature simultaneously, although no doubt some do exist.
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> > All you have to do next is add a mondo UV light source to make
> > a real solar-vac chamber!
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> You'd need a BUNCH of them to imitate the sun.
>
> > 73 de Mike W5VSI
>
> Dave
> WA4QAL
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4998. My observations of various digital modes for balloon telemetry

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-03 08:58:29 UTC
From: wb8elk@aol.com
Topic: 4998 Message: 4998

thomas@... writes:

Hello, any one of you made a complete list of all formats
and their goods and bads ?

Thomas,

Here's my observations of the various HF digital modes I've been
experimenting with for ballooning and their merits and data rate.

I'll take an example of one of my recent telemetry frames (RTTY in this
case) during last weekend's flight...this particular RTTY frame was received from
over 1800 miles away by Jack Crabtree W7JLC in Prescott, Arizona (1 watt
transmitter on 14.077 MHz over Dalton, Georgia at the time).

WB8ELK-2Ø:/38/212611/3442.36/Ø85Ø5.51/38/356/1/11/28Ø52.3/8.6Ø/16/15/W

To decode the above sequence:

Callsign/Sequence#/Time(UTC)/Lat/Lon/Speed/Heading/GPSlock/Sats/Altitu
de(meters)/Battery/Board Temperature(C)/Battery Temperature(C)/W = West Longitude

I've been doing nightly tests over a 1200 mile path on 40 meters with an
Internet radio in Connecticut (thanks to Thomas W1TXT) using 1/2 watt output
from my balloon telemetry transmitter on my end to a dipole in my backyard in
Huntsville, Alabama....The signals received in CT ranged from +10 dB above to
-14 dB below the noise.

Over the period from midnight to 4 am over the past week I could reliably
receive the half-watt transmitter good enough to copy the telemetry on almost
every sequence on at least one of the modes I tested.

Here's the results of each mode that was tested and their pros and cons:

CW (15 WPM) - (40 percent good telemetry frames received over the test
period using a SSB filter at 3 khz - about 60 percent when using a 500 Hz CW
filter)

Tough copy at times....with a tight CW filter could bring it up with
better results...subject to static crashes and local interference....hard to
decode on a computer program when at or below the noise level....best results
using a "gray matter" decoder. Slow data rate.

RTTY (45 baud standard 170 Hz shift) - (25 percent reception over the test
period)

Needs to be 0 dB or better above the noise level for reliable copy from what
I could tell. Sensitive to static crashes and nearby interference and

affected greatly by fading. Since using a Baudot 5-bit character set, you are limited to upper case with few choices for punctuation...also when interference causes you to flip to LETTERS mode, all the numbers can get received as letters for that transmission...but it's easy to encode in a microcontroller and works great when you have good signal levels. (to decode: MMTTY, MixW, MultiPSK, DM780, Hamscope, DTRC to name a few)

Hellscreiber (Feld-Hell mode) (40 percent reception over the test period)

Since it's a visual FAX-like mode...your eyes perform filtering on the noisy data when it's below the noise level....can get reliable copy down to between -3 to -5 dB below the noise...so definitely an improvement to RTTY but becomes unreadable below -3 to -5 dB. Also affected by fading...but the good news is that even with a PSK31 transmission almost on top of it, I could still read the data.
(I use either IZ8BLY's Hell-Hell program, MultiPSK, MixW or DM780 for Hellscreiber decode)

DominoEX (5, 11 and 22 baud modes) (95 percent reception over the test period).

This is a multi-frequency shift keyed mode...18 tones....it's my mode of choice for reliable data transmission with low power transmissions. A vast improvement over RTTY and even Hellscreiber....it can achieve perfect copy down to -10 dB below the noise level. I couldn't tell any difference in the performance between the 5 and 11 baud modes and the 11 baud mode is just as fast as 45 baud RTTY. The 22 baud mode really is fast (twice as fast as 45 baud RTTY) but it goes away at about -7 to -8 dB...so you do take about a 3 dB hit for the 22 baud mode, but still far better than RTTY.
The other nice thing about this mode is that it's not very critical how close you are in placing your cursor on the decode program onto the center frequency....there is quite a bit of room to play with....also it handles a drifting signal quite well (200 Hz/min). Other MFSK digital modes will only work if you have tuned exactly to their frequency...so the DominoEX mode is quite an easy mode to tune in. It handles static crashes and I even had a continuous static burst from a neighbor's light dimmer pop up once right in the center of it and it didn't affect it at all....it even handles deep fades well as long as the fade doesn't go below -10 dB S/N. You can decode DominoEX even when you can't even hear the RTTY tones or CW. The only downside I can see to this mode is that only a few programs support it....I really hope this mode catches on more since it is an improvement over some of the more complicated modes I've seen out there...also this mode is one of the easier ones to produce on a microcontroller....it can do the entire ASCII character set (both upper and lower case as well as special characters) and has a special secondary set that displays a second message in a separate text window.
The programs that do support the DominoEX modes (not to be confused with the earlier version called DominoF) are in order of my preference:

--- MultiPSK (does just about every digital mode conceivable - I use this one for everything)

--- ZL2AFP's DominoEX (dedicated to just DominoEX)

--- DM780 (part of the Ham Radio Deluxe software) - only does 4,8 and 16 baud
....all of these are free downloads.

Here's a great description of the DominoEX mode and it's advantages and a
speed comparison with other modes such as RTTY:

http://www.qsl.net/zl1bpu/DOMINO/Index.htm
(http://www.qsl.net/zl1bpu/DOMINO/Index.htm)

Here's my observations of the time taken to send that balloon telemetry
frame I showed at the top of this email with various digital modes:

RTTY(45 baud) = 13 seconds
Hellscreiber = 21 sec
PSK31 = 22 sec
DominoEX5 = 26 sec
DominoEX11 = 13 sec <-- same speed as RTTY
DominoEX22 = 7 sec <-- 2X RTTY speed

CW (15 WPM) = 90 sec

For a faster data rate, 300 baud packet could be used, but would require a
good margin over the noise level to decode. I'm just about done with
programming this mode into my microcontroller so I may try a flight test or two of this
mode as well.

==========
73s de Bill WB8ELK

http://www.wb8elk.com (http://www.wb8elk.com)

**********Great Deals on Dell Laptops. Starting at $499.
(http://pr.atwola.com/promoclk/100000075x1217883258x1201191827/aol?redir=http://ad.doubleclick.
net/clk;211531132;33070124;e)

4999. RE: [GPSL] My observations of various digital modes for balloon telemetry

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-03 11:35:04 UTC
From: Nick Hanks
Topic: 4998 Message: 4999

Bill,

Great summary! Very helpful. Very much appreciate you taking the time to put it together.

Thank you.

73,

Nick N0LP

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, February 03, 2009 01:58
To: thomas@webx.dk; Balloon_Sked@yahoogroups.com
Cc: GPSL@yahoogroups.com; balloonatics@yahoogroups.com; ballooning@yahoogroups.com; garydion@...; BarryL@HiWAAY.net; shane.wilson@...; rwilson@...; clyster@comcast.net; dbowen1@...; wd4jem@...; ka9szx@...; kg4wsv@gmail.com; w4htb@...; wb5rmg@...; nss@...; jorgedlt@...m; kmcaviezel@...; morgan_st@...; thomas_kruczek@...m; rochte@...; bgelb@...; WB8ELK@...
Subject: [GPSL] My observations of various digital modes for balloon telemetry

thomas@... writes:

Hello, any one of you made a complete list of all formats
and their goods and bads ?

Thomas,

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Tough copy at times....with a tight CW filter could bring it up with better results...subject to static crashes and local interference....hard to decode on a computer program when at or below the noise level....best results using a "gray matter" decoder. Slow data rate.

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Needs to be 0 dB or better above the noise level for reliable copy from what I could tell. Sensitive to static crashes and nearby interference and affected greatly by fading. Since using a Baudot 5-bit character set, you are limited to upper case with few choices for punctuation...also when interference causes you to flip to LETTERS mode, all the numbers can get received as letters for that transmission...but it's easy to encode in a microcontroller and works great when you have good signal levels. (to decode: MMTTY, MixW, MultiPSK, DM780, Hamscope, DTRC to name a few)

Hellscreiber (Feld-Hell mode) (40 percent reception over the test period)

Since it's a visual FAX-like mode...your eyes perform filtering on the noisy data when it's below the noise level....can get reliable copy down to between -3 to -5 dB below the noise...so definitely an improvement to RTTY but becomes unreadable below -3 to -5 dB. Also affected by fading...but the good news is that even with a PSK31 transmission almost on top of it, I could still read the data.

(I use either IZ8BLY's Hell-Hell program, MultiPSK, MixW or DM780 for Hellscreiber decode)

DominoEX (5, 11 and 22 baud modes) (95 percent reception over the test period).

This is a multi-frequency shift keyed mode...18 tones....it's my mode of choice for reliable data transmission with low power transmissions. A vast improvement over RTTY and even Hellscreiber....it can achieve perfect copy

down to -10 dB below the noise level. I couldn't tell any difference in the performance between the 5 and 11 baud modes and the 11 baud mode is just as fast as 45 baud RTTY. The 22 baud mode really is fast (twice as fast as 45 baud RTTY) but it goes away at about -7 to -8 dB...so you do take about a 3 dB hit for the 22 baud mode, but still far better than RTTY.

The other nice thing about this mode is that it's not very critical how close you are in placing your cursor on the decode program onto the center frequency....there is quite a bit of room to play with....also it handles a drifting signal quite well (200 Hz/min). Other MFSK digital modes will only work if you have tuned exactly to their frequency...so the DominoEX mode is quite an easy mode to tune in. It handles static crashes and I even had a continuous static burst from a neighbor's light dimmer pop up once right in the center of it and it didn't affect it at all....it even handles deep fades well as long as the fade doesn't go below -10 dB S/N. You can decode DominoEX even when you can't even hear the RTTY tones or CW. The only downside I can see to this mode is that only a few programs support it....I really hope this mode catches on more since it is an improvement over some of the more complicated modes I've seen out there...also this mode is one of the easier ones to produce on a microcontroller....it can do the entire ASCII character set (both upper and lower case as well as special characters) and has a special secondary set that displays a second message in a separate text window.

The programs that do support the DominoEX modes (not to be confused with the earlier version called DominoF) are in order of my preference:

--- MultiPSK (does just about every digital mode conceivable - I use this one for everything)

--- ZL2AFP's DominoEX (dedicated to just DominoEX)

--- DM780 (part of the Ham Radio Deluxe software) - only does 4,8 and 16 baud

....all of these are free downloads.

Here's a great description of the DominoEX mode and it's advantages and a speed comparison with other modes such as RTTY:

http://www.qsl. <http://www.qsl.net/zl1bpu/DOMINO/Index.htm> net/zl1bpu/DOMINO/Index.htm

Here's my observations of the time taken to send that balloon telemetry frame I showed at the top of this email with various digital modes:

RTTY(45 baud) = 13 seconds

Hellscreiber = 21 sec

PSK31 = 22 sec

DominoEX5 = 26 sec

DominoEX11 = 13 sec <-- same speed as RTTY

DominoEX22 = 7 sec <-- 2X RTTY speed

CW (15 WPM) = 90 sec

For a faster data rate, 300 baud packet could be used, but would require a good margin over the noise level to decode. I'm just about done with programming this mode into my microcontroller so I may try a flight test or two of this mode as well.

==========

73s de Bill WB8ELK

http://www.wb8elk. <http://www.wb8elk.com> com

Great
<http://pr.atwola.com/promoclk/100000075x1217883258x1201191827/aol?redir=http://ad.doubleclick.net/clk;211531132;33070124;e> Deals on Dell Laptops.
Starting at $499.

5000. ARHAB in Uruguay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-03 21:35:43 UTC
From: Ralph Wallio, W0RPK
Topic: 5000 Message: 5000

See links for ARHAB in Uruguay. Having mastered ARHAB they are looking for help to segue to CubeSats (see http://showcase.netins.net/web/wallio/CubeSat.htm).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

Date: Tue, 3 Feb 2009 15:06:51 -0200
From: "jlv" <jlv@...>
Subject: [amsat-bb] Cubesat CX??
To: <amsat-bb@...>
Cc: eu-amsat@yahoogroups.com
Message-ID: <4279E6A737A14AC08E6F96F0756A3943@CX2AN>
Content-Type: text/plain; charset="iso-8859-1"

Hello to all,

We are an university of Uruguay without many economic resources, but we have a great potential human
and big desires that to build a cubesat with our students of the career of electric engineering.

We are following the steps toward the learning on this topic but we need some help.

Until here we have arrived in a year of work:

http://iie.fing.edu.uy/twiki/bin/view.cgi/Satelite/GloboSat01Informe

http://iie.fing.edu.uy/twiki/bin/view.cgi/Satelite/GloboSat02Informe

http://iie.fing.edu.uy/twiki/bin/view.cgi/Satelite/GloboSat03Instructivo

http://iie.fing.edu.uy/twiki/bin/view.cgi/Satelite/GloboSatsMain

We have tried to achieve the help of some people had involved for many years in projects with
satellites but them they don't have the time to look toward an university with low resources that
she cannot pay for their services.

Do you know some person that has the time and the enough generosity to help us in our project?

Thanks to all in advance for the help that you can give.

CX2AN, Jose Luis Vila

CX0CFI

Departamento de Tecnologia Aeroespacial
Instituto de Ingenieria Electrica
Facultad de Ingenieria
Universidad de la Republica

5001. GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-06 21:26:39 UTC
From: L. Paul Verhage
Topic: 4595 Message: 5001

I have permission to host GPSL 2009 at my work and the school is very excited. However, no one will be here during a vacation weekend. So I need to see about moving GPSL a week earlier or later. August is not do-able because school will be starting up again. We could move GPSL to late June, as there would be enough time. But the school seems more interested in July.

--
Onwards and Upwards,
Paul

5002. RE: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-06 21:32:13 UTC
From: Nick Hanks
Topic: 4595 Message: 5002

Hi Paul,

We're with the school; as we indicated in our 26 Jan email, EOSS would like GPSL to be the weekend of 18 or 25 July.

BTW thanks for taking on the sponsorship of GPSL FOR 2009.

Nick N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Friday, February 06, 2009 14:27
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL 2009

I have permission to host GPSL 2009 at my work and the school is very excited. However, no one will be here during a vacation weekend. So I need to see about moving GPSL a week earlier or later. August is not do-able because school will be starting up again. We could move GPSL to late June, as there would be enough time. But the school seems more interested in July.

--
Onwards and Upwards,
Paul

5003. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-06 21:36:09 UTC
From: L. Paul Verhage
Topic: 4595 Message: 5003

No problem, it's just the scheduling that can be tough.

On Fri, Feb 6, 2009 at 3:32 PM, Nick Hanks <ndhanks@...> wrote:

> Hi Paul,
>
>
>
> We're with the school; as we indicated in our 26 Jan email, EOSS would like
> GPSL to be the weekend of 18 or 25 July.
>
>
>
> BTW thanks for taking on the sponsorship of GPSL FOR 2009.
>
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>
> Nick N0LP
>
> EOSS GPSL Coordinator
>
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>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Friday, February 06, 2009 14:27
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] GPSL 2009
>
>
>
> I have permission to host GPSL 2009 at my work and the school is very
> excited. However, no one will be here during a vacation weekend. So I need
> to see about moving GPSL a week earlier or later. August is not do-able
> because school will be starting up again. We could move GPSL to late June,
> as there would be enough time. But the school seems more interested in
> July.
>
> --
> Onwards and Upwards,

> Paul
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>

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Onwards and Upwards,
Paul

5004. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-06 21:48:15 UTC
From: Keith Kaiser
Topic: 4595 Message: 5004

Either weekend of July 18 or 25 would be OK with us.

On Feb 6, 2009, at 3:36 PM, L. Paul Verhage wrote:

>
> No problem, it's just the scheduling that can be tough.
>
>
>
>
> On Fri, Feb 6, 2009 at 3:32 PM, Nick Hanks <ndhanks@...> wrote:
> Hi Paul,
>
>
> We're with the school; as we indicated in our 26 Jan email, EOSS
> would like GPSL to be the weekend of 18 or 25 July.
>
>
> BTW thanks for taking on the sponsorship of GPSL FOR 2009.
>
>
>
> Nick N0LP
>
> EOSS GPSL Coordinator
>
>
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of L. Paul Verhage
> Sent: Friday, February 06, 2009 14:27
> To: GPSL@yahoogroups.com
> Subject: [GPSL] GPSL 2009
>
>
> I have permission to host GPSL 2009 at my work and the school is
> very excited. However, no one will be here during a vacation
> weekend. So I need to see about moving GPSL a week earlier or
> later. August is not do-able because school will be starting up
> again. We could move GPSL to late June, as there would be enough
> time. But the school seems more interested in July.
>
> --
> Onwards and Upwards,
> Paul

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> --
> Onwards and Upwards,
> Paul
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5005. GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-07 03:41:42 UTC
From: L. Paul Verhage
Topic: 4595 Message: 5005

I've got some volunteers from the local radio club.

Here's my plan, let me know if I'm missing something.

I'll schedule the conference at KATS. It has an LCD projector and two screens. KATS has a cafeteria, so I'll try to arrange lunch there.

I've contacted Garmin to see if we can schedule a tour. That would be on Thursday afternoon

I'll get local hotel information. Perhaps we canget a conference discount. There's a nice looking hotel 1/2 mile down the road from KATS.

The local hams will help me with repeater information.

I'll contact the magazines in April for welcome packets.

I'll contact Parallax and Byonics for door prizes. Does anyone have additional door prizes they can get donated.

The radio club volunteers will help at the door.

I'll make dinner reservations a week before GPSL.

I need a t-shirt design for Zaggle or similar site. Does anyone want to come up with a design?

I need to find launch sites. I'll look at local schools. KC, are you familar with possible launch sites between Topeka and KC. I'll recommend we launch at KU if the weather will cooperate. There's a huge soccer field we could use.

I'm trying to talk the Topeka club into mission control at KATS. The KU club has expressed an interest in doing this (this is more incentive to launch from Lawrence).

One my local volunteers knows the media fairly well and I think KATS will help out there (so please be on your good behavior).

Does the CAP want to design BalloonSats? We could arrange a ride for them.

I'll invite the 4H SpaceTech to visit.

Am I missing anything?

Thanks

--
Onwards and Upwards,

Paul

5006. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-07 03:52:03 UTC
From: Mark Conner
Topic: 4595 Message: 5006

Normally NSTAR supports a UNO BalloonSat flight in mid-July, probably the 18th this year. I think we can probably move the flight to the 11th and the 25th would be OK for GPSL. I'd rather not do flights on consecutive weekends but if it has to be that way we'll try to make it work.

73 de Mark N9XTN

On Fri, Feb 6, 2009 at 15:26, L. Paul Verhage <nearsys@...> wrote:
> I have permission to host GPSL 2009 at my work and the school is very
> excited. However, no one will be here during a vacation weekend. So I need
> to see about moving GPSL a week earlier or later. August is not do-able
> because school will be starting up again. We could move GPSL to late June,
> as there would be enough time. But the school seems more interested in
> July.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

5007. GPSL2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-07 18:19:50 UTC
From: wa8rc
Topic: 5007 Message: 5007

Hi Paul

My wife passed away on the 21 of December, and I have been out of th
loop for awhile. Just starting to get the ore's back in the water so
to speak, and I am really looking forward to attending this year GPSL.

I will provide an OpenTracker 2+ or a couple of OpenTracker 1+'s for
GPSL 2009 door prizes. I will also be contacting Microwave Data
Systems in hopes of getting a couple of 1 watt spread spectrum radios
for door prizes too. I have a few in roads and contacts there so I
hope to swing some kind of sponsership.

Also have 8 or so older 8 channel but small Trimble GPS units that I
will throw in too (still waiting altitude flight testing on these
units). These would be usefull for those non-recovered long flights
when cheap IE expendable is needed.

I might suggest the following vendors as possible door prize donors
as I have used them often for my balloon experiments as I'm sure
others here have too...

All Electronics
Argent Data
Byonics
Doppler DF (microhunt)
Electronic Goldmine
Garmin
Kaymont Balloons
K1EL Keyers
Rocket Man Parachutes
Spark-Fun Electronics

Sounds like you have some great plans in the works for GPSL 09.
Thanks for your efforts.

Regards,

Ron Cathcart
NSERT
AKA Michigan Boys

5008. Re: [GPSL] GPSL2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-08 01:55:09 UTC
From: L. Paul Verhage
Topic: 5007 Message: 5008

I'm very sorry to hear about your loss last year. My condolences.

Thank you for your donations and your recommendations. I'll follow up with them.

I look forward to seeing the Michigan Boys at GPSL 2009.

Paul

On Sat, Feb 7, 2009 at 12:19 PM, wa8rc <wa8rc@...> wrote:

> Hi Paul
>
> My wife passed away on the 21 of December, and I have been out of th
> loop for awhile. Just starting to get the ore's back in the water so
> to speak, and I am really looking forward to attending this year GPSL.
>
> I will provide an OpenTracker 2+ or a couple of OpenTracker 1+'s for
> GPSL 2009 door prizes. I will also be contacting Microwave Data
> Systems in hopes of getting a couple of 1 watt spread spectrum radios
> for door prizes too. I have a few in roads and contacts there so I
> hope to swing some kind of sponsership.
>
> Also have 8 or so older 8 channel but small Trimble GPS units that I
> will throw in too (still waiting altitude flight testing on these
> units). These would be usefull for those non-recovered long flights
> when cheap IE expendable is needed.
>
> I might suggest the following vendors as possible door prize donors
> as I have used them often for my balloon experiments as I'm sure
> others here have too...
>
> All Electronics
> Argent Data
> Byonics
> Doppler DF (microhunt)
> Electronic Goldmine
> Garmin
> Kaymont Balloons
> K1EL Keyers
> Rocket Man Parachutes
> Spark-Fun Electronics
>
> Sounds like you have some great plans in the works for GPSL 09.
> Thanks for your efforts.
>

>
> Regards,
>
> Ron Cathcart
> NSERT
> AKA Michigan Boys
>
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> ------------------------------------
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5009. Free ride on the Vomit Comet!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-09 04:52:57 UTC
From: Harry M
Topic: 5009 Message: 5009

Want a free ride on the vomit comet? Talk to NASA.
The space agency is giving away spots on zero-gravity flights to anyone who's got a great idea or potential product for spaceflight but can't afford free-fall testing.

http://www.foxnews.com/story/0,2933,489384,00.html

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

5010. Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-10 17:00:36 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5010

Okay, the pump has been connected tot he vacuum chamber. It didn't implode and has held a vacuum for 5 minutes. I need to get a pressure gauge next.

The plan is to place the dry ice in close proximity to thye plastic tank, but not in contact. That's to ensure the plastic isn't embrittled by the cold temperatures of the dry ice. I've ordetred 20 UV LEDs of 395 nm. With With 510 ohm resistors and 9V, the system should draw 1/3A. The LEDs will close to the sample under test, so the UV should be reasonably intense.

--
Onwards and Upwards,
Paul

5011. Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-10 19:05:37 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5011

We've now made a cap full of water boil. I can see the tank is not air tight, the water stops boiling when the pump shuts down. But after ten minutes of waiting, there's still a healthy rush of air flowing back into the tank. I'll look for a pressure gauge after class tonight.

--
Onwards and Upwards,
Paul

5012. Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-11 18:18:38 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5012
Attachments: 1 described; binary payloads are missing from this source WARC

I dropped a BalloonSat flight computer and weather station inside the vacuum chamber. Here's the data I got. The pressure data is digitized to 8 bits and the sensor runs from +0.5V to +4.5V. I used teh air pressure at the one of the Topeka airport's for starting pressure.

--
Onwards and Upwards,
Paul

5013. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-11 21:55:42 UTC
From: Mike Manes
Topic: 5010 Message: 5013

Hi Paul,

It's tough to resolve meaningful pressure altitude above about 80K' with an
8-bit ADC, isn't it? At 100K', the absolute pressure is only 1% of MSL,
and you're quantizing error alone is 0.4% (1/256) of full scale. It's OK
as a backup in the event of loss of GPS GGA data, however.

Any pix of your chamber available on the web?

73 de Mike W5VSI

L. Paul Verhage wrote:
> I dropped a BalloonSat flight computer and weather station inside the
> vacuum chamber. Here's the data I got. The pressure data is digitized
> to 8 bits and the sensor runs from +0.5V to +4.5V. I used teh air
> pressure at the one of the Topeka airport's for starting pressure.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5014. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-11 23:31:58 UTC
From: wb8elk@aol.com
Topic: 5010 Message: 5014

I would agree with Mike on that point about the 8-bit ADC resolution....even a 10-bit ADC (which is what I have on my PSoC flight computer) is pretty rough above 80,000 feet. Also, note that some pressure transducers don't work down to a complete vacuum...they are often set for some fairly high pressure cutoff where they flat-top. The very nice but useless MPX5100AP is an example of that. The first batch of these worked great up to 100k feet....the second batch stopped at 44,000 feet....when I asked the factory rep what was going on, he said it was too costly to calibrate them down to a vacuum so they stopped at 44k feet. They didn't even mention this on the datasheet until years later.

My current favorite pressure sensor that is a stock item is the Honeywell ASDX015A24R (available from Digikey) ... it's temperature compensated, 0.5 - 4.5 volt output and it still gives an output at 100k feet, but it's plus/minus a couple thousand feet with a 10-bit ADC at that altitude....(much worse with an 8-bit ADC)....also you have to consider that the temperature compensation will affect the output of the sensor bridge...some are compensated for temperature and some aren't....even the compensated ones have a different response characteristic below a certain temperature....0 deg C for many. But then, that's the nice thing about having a temperature controlled vacuum chamber...you can see that effect in the output (as long as your ADC has enough resolution). I have a calibration chart showing the ASDX015A24R 10-bit data compared with GPS altitude during a flight a few months ago...I'll try to email it soon.

- Bill WB8ELK

**********The year's hottest artists on the red carpet at the Grammy Awards. AOL Music takes you there.
(http://music.aol.com/grammys?ncid=emlcntusmusi00000002)

5015. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-11 23:49:54 UTC
From: wb8elk@aol.com
Topic: 5010 Message: 5015

Another thing to consider.....I've done some experiment comparing the Vaisala Radiosonde (RS80) pressure altitude data compared to a GPS altitude reading on several hitchhiker ozonesonde flights.....the aneroid barometer sensor that Vaisala makes (it works as a variable capacitor in an audio tone generator circuit) is surprisingly accurate even above 100,000 feet....just as their specs claim. Now if you can extract the calibrate curve formula from Vaisala (good luck), then you'd have a nice cheap altitude sensor since the surplus sondes are quite cheap on eBay....and once again, that's the nice thing about having your own vacuum chamber with temperature control....you can calibrate these things to be useful in payloads. By the way, the audio frequency output tone from the pressure sensor does have a temperature drift which is measured and calibrated out by the Vaisala ground station software. I've built an XR2211 decoder (along with Visual Basic program) to pull out the actual audio frequencies sent down by the Vaisala (each sensor channel varies from 7500 hz to 9300 hz)...but I haven't as yet calibrated the sensor to make sense of the tone frequency values. Vaisala supplies a calibration coefficient chart with each sonde, but you have to know the curve fit formula to make the chart worthwhile.

If you have a really old sonde....the old VIZ ones....they have a contact switch that moves along over 150+ switch contacts as the altitude increases....they supply the direct conversion chart from switch contact to pressure.....I once did a circuit to count each transition and keep count of the actual switch number...however, that method fails during descent....these do however, make great pressure switches if you have a vacuum chamber to calibrate them with....just put a microswitch on a metal frame that holds the aneroid bellows...when it reaches the altitude you want to sense, just turn the bellows on it's screw until it pushes the switch at your pressure altitude when you vacuum test it. We used these on the rockoon flights as a safety lock so we didn't accidentally fire the rocket until it was above 60,000 feet...once above that altitude, the pressure switch closed and we were Armed and ready.

- Bill

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(http://music.aol.com/grammys?ncid=emlcntusmusi00000002)

5016. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 01:19:36 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5016

I find 8 bit resolution sucks to an extent. I'm reporogrammng the BalloonSat flight computer for 10-bit resolution tonight and will run it through tomorrow. I'll have to see about shrinking a 12 bit ADC to BalloonSat size one of these days and put it inside the vacuum chamber.

I picked up a vacuum gauge from an auto parts store tonight. I want to hook it in tomorow and compare readings.

The pressure sensor for this data is a SM5812. I do have some MPX5100's to try some day, it might make for an interesting sidebar.

I'm bringing my camera tomorrow and will get some pix.

I'd be interested in trying the Vaisala barometer sensor. I think you could charge it up through a fixed resistor with a BASIC Stamp and count how long it takes for the voltage across the cap to get to 1.4 volts (the high-low transistion for a Stamp). I also think you could dispense with the calibration curve and dump a table of time and altitude into one of the memory banks of the BS-2pe. The BS-2pe would then pull the altitude out of the table on the fly and record it.
The vacuum chamber is not a super accurate environmental chamber at this point. I'd like to make something that works well, but it doesn't have to be aerospace quality. The goal is that it should be easy and cheap to replicate and give anyone doing a BalloonSat workshop another gee-whiz test.

Overall I'm pleased with it. It hasn't busted yet. I'm cutting and gluing foam for the dry ice chamber. I'll pick up a cheap thermometer this weekend. The UV LEDs I bought are in the UV-A spectrum. I'd really like to get into the B or even C spectrum, but I need to find inexpensive ways to do it. I'm surprised how expensive battery powered UV lamps are.

Paul

On Wed, Feb 11, 2009 at 5:49 PM, <wb8elk@...> wrote:

> Another thing to consider.....I've done some experiment comparing the
> Vaisala Radiosonde (RS80) pressure altitude data compared to a GPS altitude
> reading on several hitchhiker ozonesonde flights.....the aneroid barometer
> sensor that Vaisala makes (it works as a variable capacitor in an audio tone
> generator circuit) is surprisingly accurate even above 100,000 feet....just
> as their specs claim. Now if you can extract the calibrate curve formula
> from Vaisala (good luck), then you'd have a nice cheap altitude sensor since
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> control....you can calibrate these things to be useful in payloads. By the
> way, the audio frequency output tone from the pressure sensor does have a

> temperature drift which is measured and calibrated out by the Vaisala ground
> station software. I've built an XR2211 decoder (along with Visual Basic
> program) to pull out the actual audio frequencies sent down by the Vaisala
> (each sensor channel varies from 7500 hz to 9300 hz)...but I haven't as
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> Vaisala supplies a calibration coefficient chart with each sonde, but you
> have to know the curve fit formula to make the chart worthwhile.
>
> If you have a really old sonde....the old VIZ ones....they have a contact
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> increases....they supply the direct conversion chart from switch contact to
> pressure.....I once did a circuit to count each transition and keep count of
> the actual switch number...however, that method fails during
> descent....these do however, make great pressure switches if you have a
> vacuum chamber to calibrate them with....just put a microswitch on a metal
> frame that holds the aneroid bellows...when it reaches the altitude you want
> to sense, just turn the bellows on it's screw until it pushes the switch at
> your pressure altitude when you vacuum test it. We used these on the rockoon
> flights as a safety lock so we didn't accidentally fire the rocket until it
> was above 60,000 feet...once above that altitude, the pressure switch closed
> and we were Armed and ready.
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> - Bill
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> The year's hottest artists on the red carpet at the Grammy Awards. *AOL
> Music takes you there<http://music.aol.com/grammys?ncid=emlcntusmusi00000002>
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Onwards and Upwards,
Paul

5017. BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 01:23:55 UTC
From: L. Paul Verhage
Topic: 5017 Message: 5017

I just got confirmation that my PCB orders from BatchPCB have been sent to me. BatchPCB looks like a pretty good place to make small orders of PCBs, you migfht want to check it out.

One of my orders is for the mini BalloonSat flight computer I'm experimenting with (it's a minor modification of the one I sent to EOSS for testing). I'll post information on them on the NearSys website as soon as I get it in and tested. The near space article in the March Nuts and Volts will also discuss it.

--
Onwards and Upwards,
Paul

5018. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 01:32:16 UTC
From: Michael Gray
Topic: 5017 Message: 5018

Another option for low cost PCBs is PCB Fab Express.

http://pcbfabexpress.com/

I've had them make a number of 2 and 4 layer boards and they were all
good quality.

L. Paul Verhage wrote:
> I just got confirmation that my PCB orders from BatchPCB have been sent
> to me. BatchPCB looks like a pretty good place to make small orders of
> PCBs, you migfht want to check it out.
>
> One of my orders is for the mini BalloonSat flight computer I'm
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> Onwards and Upwards,
> Paul
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5019. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 03:40:30 UTC
From: Mark Conner
Topic: 5010 Message: 5019

I use this sensor at 10-bit resolution and have been happy with it.
It's not real great in an absolute sense at high altitude as one or
two-bit changes make a big difference in the derived altitude, but
it's reasonably good at detecting the pressure increase after burst.
I calibrate it to a millibar reading and report that out. I use it in
a gross sense as an altimeter should the GPS fail. I have several
Excel files showing the pressure and GPS altitude at 2-3 sec intervals
for a number of flights (which I should put on my website someday).

Conversion from pressure to altitude depends a lot on the temperature
profile of the atmosphere below the sensor. If you're using a
standard atmosphere, you'll find significant deviations from a
GPS-derived altitude, especially as the temperature profile becomes
much warmer or cooler than standard. With a decent microcontroller
and the proper algorithms, you could do all those corrections on board
if you have a decently-calibrated temp sensor you're logging on the
way up. Radiosondes back this out with ground processing.

73 de Mark N9XTN

On Wed, Feb 11, 2009 at 17:31, <wb8elk@...> wrote:
>
> My current favorite pressure sensor that is a stock item is the Honeywell
> ASDX015A24R (available from Digikey) ... it's temperature compensated, 0.5 -
> 4.5 volt output and it still gives an output at 100k feet, but it's
> plus/minus a couple thousand feet with a 10-bit ADC at that
> altitude....(much worse with an 8-bit ADC)....also you have to consider that
> the temperature compensation will affect the output of the sensor
> bridge...some are compensated for temperature and some aren't....even the
> compensated ones have a different response characteristic below a certain
> temperature....0 deg C for many. But then, that's the nice thing about
> having a temperature controlled vacuum chamber...you can see that effect in
> the output (as long as your ADC has enough resolution). I have a calibration
> chart showing the ASDX015A24R 10-bit data compared with GPS altitude during
> a flight a few months ago...I'll try to email it soon.

5020. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 03:49:14 UTC
From: Mike Manes
Topic: 5010 Message: 5020

Hi Bill,

Hey, thanks for the tip on the new Honeywell xducer. Kinda neat how they embedded an ADC, DAC and a brain to do compensation. And it's priced better than the old Mot part that we used to know and love.

The only thing that bugs me is this, quoted from the top of the spec sheet:

All ASDX Series sensors are accurate to within ±2.0% full scale ...

That's over +/- 20 mbar, so it could even 2-block at the top before it hit 100K'. But nonetheless, it's a great backup for loss of GGA.

Here's a link to the data sheet:

http://sensing.honeywell.com/index.cfm/ci_id/140501/la_id/1/document/1/re_id/0

I wonder if Honeywell might be thinking of coding that uP with a lookup table to yield a linear voltage vs pressure altitude? That would be entirely 2-Kewl!

73 de Mike W5VSI

wb8elk@... wrote:
> I would agree with Mike on that point about the 8-bit ADC
> resolution....even a 10-bit ADC (which is what I have on my PSoC flight
> computer) is pretty rough above 80,000 feet. Also, note that some
> pressure transducers don't work down to a complete vacuum...they are
> often set for some fairly high pressure cutoff where they flat-top. The
> very nice but useless MPX5100AP is an example of that. The first batch
> of these worked great up to 100k feet....the second batch stopped at
> 44,000 feet....when I asked the factory rep what was going on, he said
> it was too costly to calibrate them down to a vacuum so they stopped at
> 44k feet. They didn't even mention this on the datasheet until years later.
>
> My current favorite pressure sensor that is a stock item is the
> Honeywell ASDX015A24R (available from Digikey) ... it's temperature
> compensated, 0.5 - 4.5 volt output and it still gives an output at 100k
> feet, but it's plus/minus a couple thousand feet with a 10-bit ADC at
> that altitude....(much worse with an 8-bit ADC)....also you have to
> consider that the temperature compensation will affect the output of the
> sensor bridge...some are compensated for temperature and some
> aren't....even the compensated ones have a different response
> characteristic below a certain temperature....0 deg C for many. But
> then, that's the nice thing about having a temperature controlled vacuum

> chamber...you can see that effect in the output (as long as your ADC has
> enough resolution). I have a calibration chart showing the ASDX015A24R
> 10-bit data compared with GPS altitude during a flight a few months
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> - Bill WB8ELK
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5021. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 04:08:06 UTC
From: Mike Manes
Topic: 5010 Message: 5021

A couple of years ago, I loaned one of the new guys from Nebraska a Viz anaeroid-based pressure switch as Bill describes to fire his cutdown; it was calibrated in the EOSS chamber to operate at 80K' - and the peak altitude reported by his APRS was like 79.3K'. Missed it by 700 ft :={.

I also use the anaeroid cell from older surplus Viz 'sondes to arm the fast release. It's got something in the range of 0.16 to 0.21" axial expansion between 5K' here in CO to 100K' - but it tops out there. It will generate several lbf when constrained, tho, so be sure to use a microswitch with enough overtravel to keep it from getting crushed, especially if it's set to trip below 50K' for a trip to 100K'; not a consideration if it fires a cutdown, tho.

I've also played with the Vaisala xducer a long time ago, pre-chamber, so don't have a cal curve. But the temp compensation could be a dicey issue. The Honeywell ASDX device is a much nicer solution, IMHO, despite its iffy FS error spec.

73 de Mike W5VSI

wb8elk@... wrote:
> Another thing to consider.....I've done some experiment comparing the
> Vaisala Radiosonde (RS80) pressure altitude data compared to a GPS
> altitude reading on several hitchhiker ozonesonde flights.....the
> aneroid barometer sensor that Vaisala makes (it works as a variable
> capacitor in an audio tone generator circuit) is surprisingly accurate
> even above 100,000 feet....just as their specs claim. Now if you can
> extract the calibrate curve formula from Vaisala (good luck), then you'd
> have a nice cheap altitude sensor since the surplus sondes are quite
> cheap on eBay....and once again, that's the nice thing about having your
> own vacuum chamber with temperature control....you can calibrate these
> things to be useful in payloads. By the way, the audio frequency output
> tone from the pressure sensor does have a temperature drift which is
> measured and calibrated out by the Vaisala ground station software. I've
> built an XR2211 decoder (along with Visual Basic program) to pull out
> the actual audio frequencies sent down by the Vaisala (each sensor
> channel varies from 7500 hz to 9300 hz)...but I haven't as
> yet calibrated the sensor to make sense of the tone frequency values.
> Vaisala supplies a calibration coefficient chart with each sonde, but
> you have to know the curve fit formula to make the chart worthwhile.
>
> If you have a really old sonde....the old VIZ ones....they have a
> contact switch that moves along over 150+ switch contacts as the
> altitude increases....they supply the direct conversion chart from
> switch contact to pressure.....I once did a circuit to count each
> transition and keep count of the actual switch number...however, that

> method fails during descent....these do however, make great pressure
> switches if you have a vacuum chamber to calibrate them with....just put
> a microswitch on a metal frame that holds the aneroid bellows...when it
> reaches the altitude you want to sense, just turn the bellows on it's
> screw until it pushes the switch at your pressure altitude when you
> vacuum test it. We used these on the rockoon flights as a safety lock so
> we didn't accidentally fire the rocket until it was above 60,000
> feet...once above that altitude, the pressure switch closed and we were
> Armed and ready.
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

5022. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 04:22:44 UTC
From: Mike Manes
Topic: 5017 Message: 5022

Hmmm ... I think a PCB is great if you need multiple copies of a given design. But in my experience, balloon payload circuitry is built as onesies. So I use perfboard, and from time to time, raw clad G10 and a Dremel tool to get up and running fast (and cheap). I've even used SMT ICs this way - glued down dead-bug form - with bare #30 AWG between pins and the board. Oogly but effective.

73 de Mike W5VSI

Michael Gray wrote:
> Another option for low cost PCBs is PCB Fab Express.
>
> http://pcbfabexpress.com/
>
> I've had them make a number of 2 and 4 layer boards and they were all
> good quality.
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>> experimenting with (it's a minor modification of the one I sent to EOSS
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5023. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 04:27:31 UTC
From: Mike Manes
Topic: 5010 Message: 5023

Has anyone tried building a crude vertical speed indicator (VSI - my
suffix :-) using a sensitive differential pressure xducer with one
port hooked to a "leaky" volume, like a ping-pong ball with pinhole?
Could be used as as simple, fast burst detector.

73 de Mike W5VSI

Mark Conner wrote:
> I use this sensor at 10-bit resolution and have been happy with it.
> It's not real great in an absolute sense at high altitude as one or
> two-bit changes make a big difference in the derived altitude, but
> it's reasonably good at detecting the pressure increase after burst.
> I calibrate it to a millibar reading and report that out. I use it in
> a gross sense as an altimeter should the GPS fail. I have several
> Excel files showing the pressure and GPS altitude at 2-3 sec intervals
> for a number of flights (which I should put on my website someday).
>
> Conversion from pressure to altitude depends a lot on the temperature
> profile of the atmosphere below the sensor. If you're using a
> standard atmosphere, you'll find significant deviations from a
> GPS-derived altitude, especially as the temperature profile becomes
> much warmer or cooler than standard. With a decent microcontroller
> and the proper algorithms, you could do all those corrections on board
> if you have a decently-calibrated temp sensor you're logging on the
> way up. Radiosondes back this out with ground processing.
>
> 73 de Mark N9XTN
>
> On Wed, Feb 11, 2009 at 17:31, <wb8elk@...> wrote:
>> My current favorite pressure sensor that is a stock item is the Honeywell
>> ASDX015A24R (available from Digikey) ... it's temperature compensated, 0.5 -
>> 4.5 volt output and it still gives an output at 100k feet, but it's
>> plus/minus a couple thousand feet with a 10-bit ADC at that
>> altitude....(much worse with an 8-bit ADC)....also you have to consider that
>> the temperature compensation will affect the output of the sensor
>> bridge...some are compensated for temperature and some aren't....even the
>> compensated ones have a different response characteristic below a certain
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>> having a temperature controlled vacuum chamber...you can see that effect in
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5024. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 04:29:12 UTC
From: Greg Clark
Topic: 5017 Message: 5024

Yeah, but when you find out just how inexpensive batchpcb is, you'll never make a wire wrap board again!!! (at least for the tiny boards I make). They're about as cheap as you can get -- only drawback is the time it takes......

They route their orders thru www.goldphoenix.biz, I use them for all of my volume board runs. Great service, and great prices

- Greg

On 2/11/09, Mike Manes <mrmanes@...> wrote:
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> Hmmm ... I think a PCB is great if you need multiple copies of a given
> design. But in my experience, balloon payload circuitry is built as
> onesies. So I use perfboard, and from time to time, raw clad G10 and
> a Dremel tool to get up and running fast (and cheap). I've even used
> SMT ICs this way - glued down dead-bug form - with bare #30 AWG between
> pins and the board. Oogly but effective.
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> 73 de Mike W5VSI
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> Michael Gray wrote:
> > Another option for low cost PCBs is PCB Fab Express.
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> > http://pcbfabexpress.com/
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> > I've had them make a number of 2 and 4 layer boards and they were all
> > good quality.
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5025. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 05:20:26 UTC
From: Mike Manes
Topic: 5017 Message: 5025

Hi Greg,

Well, I can design and build a perfboard circuit in less time than it takes to lay out a PCB using my favorite CAD program (TangoPCB), and it's up and running the same day. I don't use wire-wrap any more - too bulky. I do use #30 AWG Kynar, but solder point-to-point to IC sockets and discrete component leads. With careful layout, the excess leads themselves are used to make the connections.

But if I ever find a need for several copies of the same circuit, then I'd sure consider laying out a PCB in lieu of fabbing several pefboards.

BTW, back when I was prototyping all-digital (read TTL and CMOS) circuits, I grew to love the 3M prototyping method, which replaces wire wrap pins with IDC pins on IC and SIP sockets. Each pin could accommodate 1 or 2 #30 kynar leads ... just lay the insulated wire over the pin and punch it down. Multiple-node wires daisy-chained lickety-split. I built a machine controller using that system, and it survived some pretty nasty vibration no sweat. Only issue was the cost - about same as wire-wrap - but the circuit side depth was about the same a thru-hole PCB (0.12 max above surface). Works with any 0.1" grid perfboard, plated or not.

73 de Mike W5VSI

Greg Clark wrote:
> Yeah, but when you find out just how inexpensive batchpcb is, you'll
> never make a wire wrap board again!!! (at least for the tiny boards I
> make). They're about as cheap as you can get -- only drawback is the
> time it takes......
>
> They route their orders thru www.goldphoenix.biz, I use them for all
> of my volume board runs. Great service, and great prices
>
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> - Greg
>
> On 2/11/09, Mike Manes <mrmanes@...> wrote:
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>> Hmmm ... I think a PCB is great if you need multiple copies of a given
>> design. But in my experience, balloon payload circuitry is built as
>> onesies. So I use perfboard, and from time to time, raw clad G10 and
>> a Dremel tool to get up and running fast (and cheap). I've even used

>> SMT ICs this way - glued down dead-bug form - with bare #30 AWG between
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5026. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 05:32:55 UTC
From: Greg Clark
Topic: 5017 Message: 5026

Mike,

Yes, that's one thing I can't say -- no way I could get mine up and
running in one day!

And, right again, I probably spend more time laying out the board than
it would take to get it thru the PCB program -- especially if you have
to start messing around w/ creating new library components....

-- Greg

On Wed, Feb 11, 2009 at 9:20 PM, Mike Manes <mrmanes@...> wrote:
> Hi Greg,
>
> Well, I can design and build a perfboard circuit in less time than it takes
> to
> lay out a PCB using my favorite CAD program (TangoPCB), and it's up and
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> But if I ever find a need for several copies of the same circuit, then I'd
> sure consider laying out a PCB in lieu of fabbing several pefboards.
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> BTW, back when I was prototyping all-digital (read TTL and CMOS) circuits,
> I grew to love the 3M prototyping method, which replaces wire wrap pins with
> IDC pins on IC and SIP sockets. Each pin could accommodate 1 or 2 #30 kynar
> leads ... just lay the insulated wire over the pin and punch it down.
> Multiple-node wires daisy-chained lickety-split. I built a machine
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> issue was the cost - about same as wire-wrap - but the circuit side depth
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5027. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 05:39:36 UTC
From: Mike Manes
Topic: 5010 Message: 5027

I use some 3/4" wide foam rubber weather strip for my lid seal. It crushes down when vacuum first develops and gets tighter as vacuum increases. No need to seal the end joints - just butt 'em together, and the vacuum will pull 'em in. Once I've pulled down to 10 Torr and shut the pump off, there's still 15 Torr in there after 5 minutes. Sometimes I have to push on the lid a bit to get a vacuum started, but just momentarily.

73 de Mike W5VSI

L. Paul Verhage wrote:
> We've now made a cap full of water boil. I can see the tank is not air
> tight, the water stops boiling when the pump shuts down. But after ten
> minutes of waiting, there's still a healthy rush of air flowing back
> into the tank. I'll look for a pressure gauge after class tonight.
>
> --
> Onwards and Upwards,
> Paul
>
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Mike Manes mrmanes@... Tel: 303-979-4899
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5028. [GPSL] PCB layout and schematic capture programs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 08:31:40 UTC
From: wb8elk@aol.com
Topic: 5028 Message: 5028

In a message dated 2/11/2009 10:23:32 P.M. Central Standard Time,
mrmanes@... writes:

Hmmm ... I think a PCB is great if you need multiple copies of a given
design. But in my experience, balloon payload circuitry is built as
onesies. So I use perfboard

Hi Mike....I used to do that for onesies....but some of these board houses are so inexpensive and with very quick response, that it actually saves me a lot of time and bother now to make a PCB up and have it in a couple of days instead of the hours and hours it takes to breadboard it up on perf board...even for onesies. When I do a perf board design...my favorite proto boards are the ones from Radio Shack that have the power traces on them. There is also a very nice perf board in the same pattern as those solderless breadboards available from Mouser that has power traces on either side of the center holes...I really like that one since you can transfer a solderless breadboard design directly to this perf board in no time flat since it's the same hole pattern....it's made by _www.busboard.net_ (http://www.busboard.net) and it's their part# BR1 (available from Mouser). It's even better than a solderless breadboard since it has 3 power rails on either side of the holes.

PCB Layout software:

I'm currently using Advanced Circuit's "bare bones" service...they make nice quality boards and are quick and reasonable....also I have used Express PCB (with their free software) and AP Circuits.

For board layout, I use Ivex Winboard (long discontinued however). I also use Eagle and the Express PCB free software. However, the Express PCB stuff can only be used for ordering from Express PCB...no access to Gerber files....I've found that Eagle is very "counter-intuitive" - (and I'm being kind when I say that) when it is compared to other layout tools. I have a real love-hate relationship with Eagle...but it's saving grace is that there are an amazing amount of component footprints that are in the public domain. Be prepared to have their manual handy and a friend who knows Eagle nearby when delving into the Eagle world....I do love Ivex Winboard since I can layout a PCB as quickly as I can think and build footprints just as quickly...but sadly they just went belly-up 5 years ago and haven't been seen since....ExpressPCB's software is very similar to the Ivex Winboard interface so perhaps that's what happened to it.

I'm curious as to the programs that others have been using and their
comments (pros and cons).

Schematic Capture:

As to schematic capture...I'm a real fan of DesignWorks by Capilano since it can work with quite a variety of PCB layout programs...once again I can draw a schematic as fast as I can think with Designworks...It was originally written for the Mac but performs equally as well for the PC....if you want the convenience of an integrated environment however, Eagle does shine there since if you change something in the schematic, it makes the change on the PCB layout as well....my same comments as to "counter-intuitive" interface apply also to the Eagle schematic capture. I'm also not a particular fan of the schematic capture capabilities of ExpressPCB software but I do like their PCB layout tool for small board designs.

- Bill WB8ELK

**********The year's hottest artists on the red carpet at the Grammy Awards. AOL Music takes you there.
(http://music.aol.com/grammys?ncid=emlcntusmusi00000002)

5029. Re: [GPSL] Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 14:53:29 UTC
From: Michael Gray
Topic: 5010 Message: 5029

I've used a SenSym (now Honeywell) ASCX15AN. It is also available from Digikey. It is the slightly more accurate version of the ASDX015A24R Bill is using (at 3X the cost - $70). It offers 0.2% accuracy at FSO (Full Scale Output). I used a 24-bit ADC. Way over kill. Also on this board is one of the first generation MEMS accelerometers.

http://kd7lmo.net/nsrv_analog.html

Some charts from the flight test.

http://kd7lmo.net/ansr/ansr_14_charts.html

Now I just used a set of SiRF Star III based GPS engines. I might drop out for 2 or 3 seconds right after burst, but it is generally 100% coverage.

wb8elk@... wrote:
> I would agree with Mike on that point about the 8-bit ADC
> resolution....even a 10-bit ADC (which is what I have on my PSoC flight
> computer) is pretty rough above 80,000 feet. Also, note that some
> pressure transducers don't work down to a complete vacuum...they are
> often set for some fairly high pressure cutoff where they flat-top. The
> very nice but useless MPX5100AP is an example of that. The first batch
> of these worked great up to 100k feet....the second batch stopped at
> 44,000 feet....when I asked the factory rep what was going on, he said
> it was too costly to calibrate them down to a vacuum so they stopped at
> 44k feet. They didn't even mention this on the datasheet until years later.
>
> My current favorite pressure sensor that is a stock item is the
> Honeywell ASDX015A24R (available from Digikey) ... it's temperature
> compensated, 0.5 - 4.5 volt output and it still gives an output at 100k
> feet, but it's plus/minus a couple thousand feet with a 10-bit ADC at
> that altitude....(much worse with an 8-bit ADC)....also you have to
> consider that the temperature compensation will affect the output of the
> sensor bridge...some are compensated for temperature and some
> aren't....even the compensated ones have a different response
> characteristic below a certain temperature....0 deg C for many. But
> then, that's the nice thing about having a temperature controlled vacuum
> chamber...you can see that effect in the output (as long as your ADC has
> enough resolution). I have a calibration chart showing the ASDX015A24R
> 10-bit data compared with GPS altitude during a flight a few months
> ago...I'll try to email it soon.
>
> - Bill WB8ELK
>
>

>
> ---
> The year's hottest artists on the red carpet at the Grammy Awards. *AOL
> Music takes you there
> <http://music.aol.com/grammys?ncid=emlcntusmusi00000002>*.
>
>

5030. Re: BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 16:23:28 UTC
From: jjdemeyer
Topic: 5017 Message: 5030

I have had good experiences with BatchPCB as well. I flew PC boards
with a Lassen iQ GPS, sensors, and an A/D board. It all worked great!

Joe
Surfing Satellites

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I just got confirmation that my PCB orders from BatchPCB have been
sent to
> me. BatchPCB looks like a pretty good place to make small orders of
PCBs,
> you migfht want to check it out.
>
> One of my orders is for the mini BalloonSat flight computer I'm
> experimenting with (it's a minor modification of the one I sent to
EOSS for
> testing). I'll post information on them on the NearSys website as
soon as I
> get it in and tested. The near space article in the March Nuts and
Volts
> will also discuss it.
>
> --
> Onwards and Upwards,
> Paul
>

5031. Re: Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 16:47:18 UTC
From: Dave
Topic: 5010 Message: 5031

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> We've now made a cap full of water boil. I can see the tank is not air
> tight, the water stops boiling when the pump shuts down. But after ten
> minutes of waiting, there's still a healthy rush of air flowing back
into
> the tank. I'll look for a pressure gauge after class tonight.

Don't forget that, as the cap of water is boiling, it's releasing
water vapour into the enclosure, which will be pushing the pressure
up.

> --
> Onwards and Upwards,
> Paul

Dave

5032. Re: Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 17:01:48 UTC
From: Dave
Topic: 5010 Message: 5032

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I find 8 bit resolution sucks to an extent. I'm reporogrammng the
> BalloonSat flight computer for 10-bit resolution tonight and will run it
> through tomorrow. I'll have to see about shrinking a 12 bit ADC to
> BalloonSat size one of these days and put it inside the vacuum chamber.

One of the problems with building a 12 bit (or higher) DAC is that the resistors in a R-2R type of ladder need to be exceptionally high precision. Additionally, you have to worry about temperature variations (especially if the temperature coefficient of the resistors vary!). It's obviously possible, but not necessarily easy.

One approach you might want to consider is a Voltage to Frequency converter.

Another approach is one I cam up with about 30 years ago involving a comparator, an RC timing network, and a counter. The disadvantage is that it's not an instantaneous conversion, but that's not really needed for altitude sensing. Another problem is that the temperature coefficient of the RC network has to be known/calibrated. And, it produces a non-linear output (although this can be replaced by using a constant current source in place of the resistor).

Anyway, those are just a couple of things to consider.

> I picked up a vacuum gauge from an auto parts store tonight. I want
to hook
> it in tomorow and compare readings.
>
> The pressure sensor for this data is a SM5812. I do have some
MPX5100's to
> try some day, it might make for an interesting sidebar.
>
> I'm bringing my camera tomorrow and will get some pix.

I'd like to see those.

> I'd be interested in trying the Vaisala barometer sensor. I think
you could
> charge it up through a fixed resistor with a BASIC Stamp and count
how long
> it takes for the voltage across the cap to get to 1.4 volts (the
high-low
> transistion for a Stamp).

That's the same basic approach I outlined above, only using a
comparator for the sensing, and the counter for the timing.

Consider using a constant current source to linearize the charging
of the capacitor.

> I also think you could dispense with the
> calibration curve and dump a table of time and altitude into one of the
> memory banks of the BS-2pe. The BS-2pe would then pull the altitude
out of
> the table on the fly and record it.
> The vacuum chamber is not a super accurate environmental chamber at this
> point. I'd like to make something that works well, but it doesn't
have to
> be aerospace quality. The goal is that it should be easy and cheap to
> replicate and give anyone doing a BalloonSat workshop another gee-whiz
> test.

Simple/cheap is good! :-)

> Overall I'm pleased with it. It hasn't busted yet. I'm cutting and
gluing
> foam for the dry ice chamber. I'll pick up a cheap thermometer this
> weekend. The UV LEDs I bought are in the UV-A spectrum.

I'm not sure if you'll be able to find LEDs that go much farther
up in the UV spectrum (or, at least, not cheaply).

> I'd really like to
> get into the B or even C spectrum, but I need to find inexpensive
ways to do
> it. I'm surprised how expensive battery powered UV lamps are.

The typical way of producing reasonably large quantities of UV
are with a Mercury vapour discharge. It's difficult to run these
from a battery/DC source. I suppose one option might be to use a
germicidal light and power it from an inverter (watch the heat
dissipation!). Another might be to use the light from a UV EPROM
eraser (I may even have a DC/wall-wart powered one stashed away
somewhere!).

Just don't look at the UV-B or UV-C stuff.

Anyway, it sometimes helps to think outside the box. :-)

> Paul

Dave
WA4QAL

5033. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 17:11:55 UTC
From: L. Paul Verhage
Topic: 5017 Message: 5033

For my onesies I make a PCB at home with DALPro parts and Ares Lite to design the PCB. I can shoot, develop, etch, and drill the PCB at home. The baords are high qaulity and I've never come across something I need that I couldn't make.

I'm starting to use BatchPCB to test commerical designs. The goal is to go to Gold Phoenix myself to make larger lots of tested boards.

Paul

On Wed, Feb 11, 2009 at 10:22 PM, Mike Manes <mrmanes@...> wrote:

> Hmmm ... I think a PCB is great if you need multiple copies of a given
> design. But in my experience, balloon payload circuitry is built as
> onesies. So I use perfboard, and from time to time, raw clad G10 and
> a Dremel tool to get up and running fast (and cheap). I've even used
> SMT ICs this way - glued down dead-bug form - with bare #30 AWG between
> pins and the board. Oogly but effective.
>
> 73 de Mike W5VSI
>
> Michael Gray wrote:
> > Another option for low cost PCBs is PCB Fab Express.
> >
> > http://pcbfabexpress.com/
> >
> > I've had them make a number of 2 and 4 layer boards and they were all
> > good quality.
> >
> >
> >
> > L. Paul Verhage wrote:
> >> I just got confirmation that my PCB orders from BatchPCB have been sent
> >> to me. BatchPCB looks like a pretty good place to make small orders of
> >> PCBs, you migfht want to check it out.
> >>
> >> One of my orders is for the mini BalloonSat flight computer I'm
> >> experimenting with (it's a minor modification of the one I sent to EOSS
> >> for testing). I'll post information on them on the NearSys website as
> >> soon as I get it in and tested. The near space article in the March
> >> Nuts and Volts will also discuss it.
> >>
> >> --
> >> Onwards and Upwards,
> >> Paul
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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Onwards and Upwards,
Paul

5034. Re: [GPSL] BatchPCB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 17:19:19 UTC
From: L. Paul Verhage
Topic: 5017 Message: 5034

I figure with Ares Lite and DALPro, I can come up with an idea on Friday after work and have it working before going back to work on Monday. Of course, this depends on the complexity and my free time.

Paul

On Wed, Feb 11, 2009 at 11:32 PM, Greg Clark <k7rkt@...> wrote:

> Mike,
>
> Yes, that's one thing I can't say -- no way I could get mine up and
> running in one day!
>
> And, right again, I probably spend more time laying out the board than
> it would take to get it thru the PCB program -- especially if you have
> to start messing around w/ creating new library components....
>
> -- Greg
>
> On Wed, Feb 11, 2009 at 9:20 PM, Mike Manes <mrmanes@...> wrote:
> > Hi Greg,
> >
> > Well, I can design and build a perfboard circuit in less time than it
> takes
> > to
> > lay out a PCB using my favorite CAD program (TangoPCB), and it's up and
> > running the same day. I don't use wire-wrap any more - too bulky. I do
> use
> > #30 AWG Kynar, but solder point-to-point to IC sockets and discrete
> > component
> > leads. With careful layout, the excess leads themselves are used to make
> the
> > connections.
> >
> > But if I ever find a need for several copies of the same circuit, then
> I'd
> > sure consider laying out a PCB in lieu of fabbing several pefboards.
> >
> > BTW, back when I was prototyping all-digital (read TTL and CMOS)
> circuits,
> > I grew to love the 3M prototyping method, which replaces wire wrap pins
> with
> > IDC pins on IC and SIP sockets. Each pin could accommodate 1 or 2 #30
> kynar
> > leads ... just lay the insulated wire over the pin and punch it down.
> > Multiple-node wires daisy-chained lickety-split. I built a machine

> > controller
> > using that system, and it survived some pretty nasty vibration no sweat.
> > Only
> > issue was the cost - about same as wire-wrap - but the circuit side depth
> > was
> > about the same a thru-hole PCB (0.12 max above surface). Works with any
> 0.1"
> > grid perfboard, plated or not.
> >
> > 73 de Mike W5VSI
> >
> > Greg Clark wrote:
> >> Yeah, but when you find out just how inexpensive batchpcb is, you'll
> >> never make a wire wrap board again!!! (at least for the tiny boards I
> >> make). They're about as cheap as you can get -- only drawback is the
> >> time it takes......
> >>
> >> They route their orders thru www.goldphoenix.biz, I use them for all
> >> of my volume board runs. Great service, and great prices
> >>
> >>
> >> - Greg
> >>
> >> On 2/11/09, Mike Manes <mrmanes@...> wrote:
> >>>
> >>>
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> >>>
> >>>
> >>> Hmmm ... I think a PCB is great if you need multiple copies of a given
> >>> design. But in my experience, balloon payload circuitry is built as
> >>> onesies. So I use perfboard, and from time to time, raw clad G10 and
> >>> a Dremel tool to get up and running fast (and cheap). I've even used
> >>> SMT ICs this way - glued down dead-bug form - with bare #30 AWG between
> >>> pins and the board. Oogly but effective.
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> >>> 73 de Mike W5VSI
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> >>> Michael Gray wrote:
> >>> > Another option for low cost PCBs is PCB Fab Express.
> >>> >
> >>> > http://pcbfabexpress.com/
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> >>> > I've had them make a number of 2 and 4 layer boards and they were all
> >>> > good quality.
> >>> >
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> >>> >
> >>> > L. Paul Verhage wrote:
> >>> >> I just got confirmation that my PCB orders from BatchPCB have been

> >>> >> sent
> >>> >> to me. BatchPCB looks like a pretty good place to make small orders
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> >>> >> PCBs, you migfht want to check it out.
> >>> >>
> >>> >> One of my orders is for the mini BalloonSat flight computer I'm
> >>> >> experimenting with (it's a minor modification of the one I sent to
> >>> >> EOSS
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> >>> >> soon as I get it in and tested. The near space article in the March
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> >>> >> Onwards and Upwards,
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> >>> Mike Manes mrmanes@... Tel: 303-979-4899
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Onwards and Upwards,
Paul

5035. Re: [GPSL] Re: Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 17:27:37 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5035

I have some pix, I'll copy those tonight to my drive and email them out. I did hook up a vacuum/pressure gauge from Carquest and it says 29.5" Hg. So as far as cheap pressure sensors say, the vacuum chamber is getting to zero mb. I suppose that will be good enough for a toy environmental test chamber.

The UV source is going to be my next problem. I know I can at least test to the visible-UV border.

Right now I'm trying to calibrate a MPX5100 connected to a TLC272 op-amp. I want to use it for a weather station. Just sitting in the room at 10-bits precision it shows a lot of variation. I'm going to try to block air flow across the sensor to make sure it's not a breeze I'm seeing.

Paul
On Thu, Feb 12, 2009 at 11:01 AM, Dave <wa4qal@...> wrote:

> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > I find 8 bit resolution sucks to an extent. I'm reporogrammng the
> > BalloonSat flight computer for 10-bit resolution tonight and will run it
> > through tomorrow. I'll have to see about shrinking a 12 bit ADC to
> > BalloonSat size one of these days and put it inside the vacuum chamber.
>
> One of the problems with building a 12 bit (or higher) DAC is that
> the resistors in a R-2R type of ladder need to be exceptionally high
> precision. Additionally, you have to worry about temperature
> variations (especially if the temperature coefficient of the
> resistors vary!). It's obviously possible, but not necessarily
> easy.
>
> One approach you might want to consider is a Voltage to Frequency
> converter.
>
> Another approach is one I cam up with about 30 years ago involving
> a comparator, an RC timing network, and a counter. The disadvantage
> is that it's not an instantaneous conversion, but that's not really
> needed for altitude sensing. Another problem is that the temperature
> coefficient of the RC network has to be known/calibrated. And, it
> produces a non-linear output (although this can be replaced by
> using a constant current source in place of the resistor).
>
> Anyway, those are just a couple of things to consider.
>
> > I picked up a vacuum gauge from an auto parts store tonight. I want
> to hook

> > it in tomorow and compare readings.
> >
> > The pressure sensor for this data is a SM5812. I do have some
> MPX5100's to
> > try some day, it might make for an interesting sidebar.
> >
> > I'm bringing my camera tomorrow and will get some pix.
>
> I'd like to see those.
>
> > I'd be interested in trying the Vaisala barometer sensor. I think
> you could
> > charge it up through a fixed resistor with a BASIC Stamp and count
> how long
> > it takes for the voltage across the cap to get to 1.4 volts (the
> high-low
> > transistion for a Stamp).
>
> That's the same basic approach I outlined above, only using a
> comparator for the sensing, and the counter for the timing.
>
> Consider using a constant current source to linearize the charging
> of the capacitor.
>
> > I also think you could dispense with the
> > calibration curve and dump a table of time and altitude into one of the
> > memory banks of the BS-2pe. The BS-2pe would then pull the altitude
> out of
> > the table on the fly and record it.
> > The vacuum chamber is not a super accurate environmental chamber at this
> > point. I'd like to make something that works well, but it doesn't
> have to
> > be aerospace quality. The goal is that it should be easy and cheap to
> > replicate and give anyone doing a BalloonSat workshop another gee-whiz
> > test.
>
> Simple/cheap is good! :-)
>
> > Overall I'm pleased with it. It hasn't busted yet. I'm cutting and
> gluing
> > foam for the dry ice chamber. I'll pick up a cheap thermometer this
> > weekend. The UV LEDs I bought are in the UV-A spectrum.
>
> I'm not sure if you'll be able to find LEDs that go much farther
> up in the UV spectrum (or, at least, not cheaply).
>
> > I'd really like to
> > get into the B or even C spectrum, but I need to find inexpensive
> ways to do
> > it. I'm surprised how expensive battery powered UV lamps are.

>
> The typical way of producing reasonably large quantities of UV
> are with a Mercury vapour discharge. It's difficult to run these
> from a battery/DC source. I suppose one option might be to use a
> germicidal light and power it from an inverter (watch the heat
> dissipation!). Another might be to use the light from a UV EPROM
> eraser (I may even have a DC/wall-wart powered one stashed away
> somewhere!).
>
> Just don't look at the UV-B or UV-C stuff.
>
> Anyway, it sometimes helps to think outside the box. :-)
>
> > Paul
>
> Dave
> WA4QAL
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5036. Satellite Collision

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 17:29:19 UTC
From: L. Paul Verhage
Topic: 5036 Message: 5036

Here's an article on a satellitye collision that occurred yesterday.

http://www.aviationweek.com/aw/generic/story.jsp?id=news/COLLIDE021109.xml&headline=Orbital%20Collision%20Was%20The%20Worst%20Ever&channel=space

--
Onwards and Upwards,
Paul

5037. NASA balloon broke endurance record for Antarctic flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-12 20:01:46 UTC
From: Luis Eduardo Pacheco
Topic: 5037 Message: 5037

New endurance record for an Antarctic flight - 02/09/2009 *Williams Field, Antarctica.-* Surely, NASA's balloon program will not forget the 2008/2009 balloon launch campaign, not only by the smooth development of the first two flights (ANITA and CREAM, both of them finished and recovered) but by the most succesfull flight ever of the program's "jewel of the crown" the ULDB (Ultra Long Duration Balloon) flight test.

Added to the quiet and troubleless flight of the 7 million cubic feet giant pumpkin, which finally was extended to perform a third circle to the continent, *at 19:07 UTC on February 7, after being 42 days and 17 hours aloft it broke the previous duration record of 41 days, 21 hours and 16 minutes set by the CREAM LDB mission there in 2005*.

More on this at http://stratocat.com.ar/indexe.html
--
Luis Eduardo Pacheco

5038. Re: [GPSL] PCB layout and schematic capture programs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 03:48:36 UTC
From: Mike Manes
Topic: 5028 Message: 5038

Hi Bill,

Sometimes I'll do a perfboard where I have confidence in most of the design, but use it to breadboard the kinky bits - and from time to time, I have to tweak some changes in. That's tougher to do with a PCB - gotta cut traces, etc.

I also like the Rat Shack perfboards since the pads are well adhered so if one needs to pull a component, the pad stays in place. For noise-susceptible stuff, I prefer the 2-sided boards with plated-thru holes that have a ground plane on one side, but the ones from Vector make my wallet hurt!

Thanks for the lead to busboard. Nice line of products!

73 de Mike W5VSI

wb8elk@... wrote:
> In a message dated 2/11/2009 10:23:32 P.M. Central Standard Time,
> mrmanes@... writes:
>
> Hmmm ... I think a PCB is great if you need multiple copies of a given
> design. But in my experience, balloon payload circuitry is built as
> onesies. So I use perfboard
>
> Hi Mike....I used to do that for onesies....but some of these board
> houses are so inexpensive and with very quick response, that it actually
> saves me a lot of time and bother now to make a PCB up and have it in a
> couple of days instead of the hours and hours it takes to breadboard it
> up on perf board...even for onesies. When I do a perf board design...my
> favorite proto boards are the ones from Radio Shack that have the power
> traces on them. There is also a very nice perf board in the same pattern
> as those solderless breadboards available from Mouser that has power
> traces on either side of the center holes...I really like that one since
> you can transfer a solderless breadboard design directly to this perf
> board in no time flat since it's the same hole pattern....it's made by
> www.busboard.net <http://www.busboard.net> and it's their part# BR1
> (available from Mouser). It's even better than a solderless breadboard
> since it has 3 power rails on either side of the holes.
>
> PCB Layout software:
>
> I'm currently using Advanced Circuit's "bare bones" service...they make
> nice quality boards and are quick and reasonable....also I have used
> Express PCB (with their free software) and AP Circuits.
>
> For board layout, I use Ivex Winboard (long discontinued however). I

> also use Eagle and the Express PCB free software. However, the Express
> PCB stuff can only be used for ordering from Express PCB...no access to
> Gerber files....I've found that Eagle is very "counter-intuitive" - (and
> I'm being kind when I say that) when it is compared to other layout
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> friend who knows Eagle nearby when delving into the Eagle world....I do
> love Ivex Winboard since I can layout a PCB as quickly as I can think
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> 5 years ago and haven't been seen since....ExpressPCB's software is very
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> I'm curious as to the programs that others have been using and their
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>
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>
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> Capilano since it can work with quite a variety of PCB layout
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> also to the Eagle schematic capture. I'm also not a particular fan of
> the schematic capture capabilities of ExpressPCB software but I do like
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> - Bill WB8ELK
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> The year's hottest artists on the red carpet at the Grammy Awards. *AOL
> Music takes you there
> <http://music.aol.com/grammys?ncid=emlcntusmusi00000002>*.
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5039. Re: [GPSL] Re: Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 05:16:31 UTC
From: Mike Manes
Topic: 5010 Message: 5039

Resistor ratios rather than absolute resistance is a key requirement for ADCs and DACs, and it's easy to control diffused poly resistor ratios quite precisely via geometry. And 12-bit monolithic ADCs are available off the shelf as cheap as $3.00:

http://mouser.com/Search/Refine.aspx?Keyword=ADC+12-bit

I use a germicidal UV lamp and ballast intended for use in a domestic clothes dryer (to lend the scent of clothesline-dryed duds) for my EEPROM eraser. It runs from 120VAC and cost <$5 from a local appliance parts store. Not sure of it's spectral content, however - suspect it's Hg vapor.

73 de Mike W5VSI

Dave wrote:
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>> I find 8 bit resolution sucks to an extent. I'm reporogrammng the
>> BalloonSat flight computer for 10-bit resolution tonight and will run it
>> through tomorrow. I'll have to see about shrinking a 12 bit ADC to
>> BalloonSat size one of these days and put it inside the vacuum chamber.
>
> One of the problems with building a 12 bit (or higher) DAC is that
> the resistors in a R-2R type of ladder need to be exceptionally high
> precision. Additionally, you have to worry about temperature
> variations (especially if the temperature coefficient of the
> resistors vary!). It's obviously possible, but not necessarily
> easy.
>
> One approach you might want to consider is a Voltage to Frequency
> converter.
>
> Another approach is one I cam up with about 30 years ago involving
> a comparator, an RC timing network, and a counter. The disadvantage
> is that it's not an instantaneous conversion, but that's not really
> needed for altitude sensing. Another problem is that the temperature
> coefficient of the RC network has to be known/calibrated. And, it
> produces a non-linear output (although this can be replaced by
> using a constant current source in place of the resistor).
>
> Anyway, those are just a couple of things to consider.
>
>> I picked up a vacuum gauge from an auto parts store tonight. I want
> to hook
>> it in tomorow and compare readings.
>>

>> The pressure sensor for this data is a SM5812. I do have some
> MPX5100's to
>> try some day, it might make for an interesting sidebar.
>>
>> I'm bringing my camera tomorrow and will get some pix.
>
> I'd like to see those.
>
>> I'd be interested in trying the Vaisala barometer sensor. I think
> you could
>> charge it up through a fixed resistor with a BASIC Stamp and count
> how long
>> it takes for the voltage across the cap to get to 1.4 volts (the
> high-low
>> transistion for a Stamp).
>
> That's the same basic approach I outlined above, only using a
> comparator for the sensing, and the counter for the timing.
>
> Consider using a constant current source to linearize the charging
> of the capacitor.
>
>> I also think you could dispense with the
>> calibration curve and dump a table of time and altitude into one of the
>> memory banks of the BS-2pe. The BS-2pe would then pull the altitude
> out of
>> the table on the fly and record it.
>> The vacuum chamber is not a super accurate environmental chamber at this
>> point. I'd like to make something that works well, but it doesn't
> have to
>> be aerospace quality. The goal is that it should be easy and cheap to
>> replicate and give anyone doing a BalloonSat workshop another gee-whiz
>> test.
>
> Simple/cheap is good! :-)
>
>> Overall I'm pleased with it. It hasn't busted yet. I'm cutting and
> gluing
>> foam for the dry ice chamber. I'll pick up a cheap thermometer this
>> weekend. The UV LEDs I bought are in the UV-A spectrum.
>
> I'm not sure if you'll be able to find LEDs that go much farther
> up in the UV spectrum (or, at least, not cheaply).
>
>> I'd really like to
>> get into the B or even C spectrum, but I need to find inexpensive
> ways to do
>> it. I'm surprised how expensive battery powered UV lamps are.
>
> The typical way of producing reasonably large quantities of UV

> are with a Mercury vapour discharge. It's difficult to run these
> from a battery/DC source. I suppose one option might be to use a
> germicidal light and power it from an inverter (watch the heat
> dissipation!). Another might be to use the light from a UV EPROM
> eraser (I may even have a DC/wall-wart powered one stashed away
> somewhere!).
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> Just don't look at the UV-B or UV-C stuff.
>
> Anyway, it sometimes helps to think outside the box. :-)
>
>> Paul
>
> Dave
> WA4QAL
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5040. Re: [GPSL] PCB layout and schematic capture programs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 14:03:39 UTC
From: L. Paul Verhage
Topic: 5028 Message: 5040

There's one good thing to say about the Radio Shack perf baords, if I can breadboard the design, I can transfer it directly over to the perf board.

When I just one design to make, I usually encourage my students to get their PCB designs ready so I can add my small board to their boards. We waste less PCB that way.

Paul

On Thu, Feb 12, 2009 at 9:48 PM, Mike Manes <mrmanes@...> wrote:

> Hi Bill,
>
> Sometimes I'll do a perfboard where I have confidence in most of the
> design, but use it to breadboard the kinky bits - and from time to time,
> I have to tweak some changes in. That's tougher to do with a PCB - gotta
> cut traces, etc.
>
> I also like the Rat Shack perfboards since the pads are well adhered so if
> one needs to pull a component, the pad stays in place. For
> noise-susceptible
> stuff, I prefer the 2-sided boards with plated-thru holes that have a
> ground
> plane on one side, but the ones from Vector make my wallet hurt!
>
> Thanks for the lead to busboard. Nice line of products!
>
> 73 de Mike W5VSI
>
> wb8elk@... wrote:
> > In a message dated 2/11/2009 10:23:32 P.M. Central Standard Time,
> > mrmanes@... writes:
> >
> > Hmmm ... I think a PCB is great if you need multiple copies of a
> given
> > design. But in my experience, balloon payload circuitry is built as
> > onesies. So I use perfboard
> >
> > Hi Mike....I used to do that for onesies....but some of these board
> > houses are so inexpensive and with very quick response, that it actually
> > saves me a lot of time and bother now to make a PCB up and have it in a
> > couple of days instead of the hours and hours it takes to breadboard it
> > up on perf board...even for onesies. When I do a perf board design...my
> > favorite proto boards are the ones from Radio Shack that have the power
> > traces on them. There is also a very nice perf board in the same pattern
> > as those solderless breadboards available from Mouser that has power

> > traces on either side of the center holes...I really like that one since
> > you can transfer a solderless breadboard design directly to this perf
> > board in no time flat since it's the same hole pattern....it's made by
> > www.busboard.net <http://www.busboard.net> and it's their part# BR1
> > (available from Mouser). It's even better than a solderless breadboard
> > since it has 3 power rails on either side of the holes.
> >
> > PCB Layout software:
> >
> > I'm currently using Advanced Circuit's "bare bones" service...they make
> > nice quality boards and are quick and reasonable....also I have used
> > Express PCB (with their free software) and AP Circuits.
> >
> > For board layout, I use Ivex Winboard (long discontinued however). I
> > also use Eagle and the Express PCB free software. However, the Express
> > PCB stuff can only be used for ordering from Express PCB...no access to
> > Gerber files....I've found that Eagle is very "counter-intuitive" - (and
> > I'm being kind when I say that) when it is compared to other layout
> > tools. I have a real love-hate relationship with Eagle...but it's saving
> > grace is that there are an amazing amount of component footprints that
> > are in the public domain. Be prepared to have their manual handy and a
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> > 5 years ago and haven't been seen since....ExpressPCB's software is very
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> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5041. Re: [GPSL] Re: Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 14:06:16 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5041

I need to include this inside the vacuum chamber. I don't know how much UV
will penetrate the plastic jar. I suppose I could put some day-glow inside
and see how much it glows.

Paul

On Thu, Feb 12, 2009 at 11:16 PM, Mike Manes <mrmanes@...> wrote:

> Resistor ratios rather than absolute resistance is a key requirement for
> ADCs and DACs, and it's easy to control diffused poly resistor ratios
> quite precisely via geometry. And 12-bit monolithic ADCs are available
> off the shelf as cheap as $3.00:
>
> http://mouser.com/Search/Refine.aspx?Keyword=ADC+12-bit
>
> I use a germicidal UV lamp and ballast intended for use in a domestic
> clothes dryer (to lend the scent of clothesline-dryed duds) for my
> EEPROM eraser. It runs from 120VAC and cost <$5 from a local appliance
> parts store. Not sure of it's spectral content, however - suspect it's
> Hg vapor.
>
> 73 de Mike W5VSI
>
> Dave wrote:
> > --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >> I find 8 bit resolution sucks to an extent. I'm reporogrammng the
> >> BalloonSat flight computer for 10-bit resolution tonight and will run it
> >> through tomorrow. I'll have to see about shrinking a 12 bit ADC to
> >> BalloonSat size one of these days and put it inside the vacuum chamber.
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> > > One of the problems with building a 12 bit (or higher) DAC is that
> > > the resistors in a R-2R type of ladder need to be exceptionally high
> > > precision. Additionally, you have to worry about temperature
> > > variations (especially if the temperature coefficient of the
> > > resistors vary!). It's obviously possible, but not necessarily
> > > easy.
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> > > One approach you might want to consider is a Voltage to Frequency
> > > converter.
> > >
> > > Another approach is one I cam up with about 30 years ago involving
> > > a comparator, an RC timing network, and a counter. The disadvantage
> > > is that it's not an instantaneous conversion, but that's not really
> > > needed for altitude sensing. Another problem is that the temperature
> > > coefficient of the RC network has to be known/calibrated. And, it
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> >> I picked up a vacuum gauge from an auto parts store tonight. I want
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> >> The pressure sensor for this data is a SM5812. I do have some
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> >>
> >> I'm bringing my camera tomorrow and will get some pix.
> >
> > I'd like to see those.
> >
> >> I'd be interested in trying the Vaisala barometer sensor. I think
> > you could
> >> charge it up through a fixed resistor with a BASIC Stamp and count
> > how long
> >> it takes for the voltage across the cap to get to 1.4 volts (the
> > high-low
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> >
> > That's the same basic approach I outlined above, only using a
> > comparator for the sensing, and the counter for the timing.
> >
> > Consider using a constant current source to linearize the charging
> > of the capacitor.
> >
> >> I also think you could dispense with the
> >> calibration curve and dump a table of time and altitude into one of the
> >> memory banks of the BS-2pe. The BS-2pe would then pull the altitude
> > out of
> >> the table on the fly and record it.
> >> The vacuum chamber is not a super accurate environmental chamber at this
> >> point. I'd like to make something that works well, but it doesn't
> > have to
> >> be aerospace quality. The goal is that it should be easy and cheap to
> >> replicate and give anyone doing a BalloonSat workshop another gee-whiz
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> >
> > Simple/cheap is good! :-)
> >
> >> Overall I'm pleased with it. It hasn't busted yet. I'm cutting and
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> >> foam for the dry ice chamber. I'll pick up a cheap thermometer this
> >> weekend. The UV LEDs I bought are in the UV-A spectrum.
> >
> > I'm not sure if you'll be able to find LEDs that go much farther

> > up in the UV spectrum (or, at least, not cheaply).
> >
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> >
> > The typical way of producing reasonably large quantities of UV
> > are with a Mercury vapour discharge. It's difficult to run these
> > from a battery/DC source. I suppose one option might be to use a
> > germicidal light and power it from an inverter (watch the heat
> > dissipation!). Another might be to use the light from a UV EPROM
> > eraser (I may even have a DC/wall-wart powered one stashed away
> > somewhere!).
> >
> > Just don't look at the UV-B or UV-C stuff.
> >
> > Anyway, it sometimes helps to think outside the box. :-)
> >
> >> Paul
> >
> > Dave
> > WA4QAL
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> Mike Manes mrmanes@... Tel: 303-979-4899
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> A. Einstein
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Onwards and Upwards,
Paul

5042. Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 17:36:33 UTC
From: L. Paul Verhage
Topic: 5010 Message: 5042
Attachments: 2 described; binary payloads are missing from this source WARC

Here are two photos I've taken of the chamber. Now I'm working on a cover
to hold dry ice. The foam pedestal is hollow and will also contrin dry ice.

--
Onwards and Upwards,
Paul

5043. 10 bit Pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-13 20:25:41 UTC
From: L. Paul Verhage
Topic: 5043 Message: 5043
Attachments: 1 described; binary payloads are missing from this source WARC

Here's an Excel chart from the altitude chamber pumping down with the MPX-5100 at 10-bit resolution

--
Onwards and Upwards,
Paul

5044. [Fwd: Zoombak Personal GPS Locator]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-18 03:39:28 UTC
From: Mike Manes
Topic: 5044 Message: 5044

Yet another COTS GPS beacon, this one using GSM cell links vice satellite for
its reports. Suppose it would be great if your payload lands where there's
GSM coverage.

73 de Mike W5VSI

-------- Original Message --------
Subject: Zoombak Personal GPS Locator
Date: Thu, 12 Feb 2009 17:07:21 UT
From: Engineering TV <EngineeringTV@...>
Reply-To: EngineeringTV@...
To: mrmanes@...

View this email as a Web page
<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2395999-0-0-0-1-2-192>

Please add ED_Engineering TV_ to your Safe Sender list.
<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396000-0-0-0-1-2-192>

EngineeringTV
<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396001-0-0-0-1-2-192>

Digi-Key
<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396002-0-0-0-1-2-192>

A Penton Media Property
February 12, 2009

* * *Zoombak Personal GPS Locator
<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396006-0-0-0-1-2-192>*

<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396007-0-0-0-1-2-192>

Engineering TV found Simon Buckingham, CEO of Zoombak, at CES 2009 to
talk about their line of personal GPS locators. A-GPS technology helps
you precisely and reliably determine the location of the Zoombak Locator
unit. Continuous tracking, location tracking, device alerts -- all are
available on-demand via Zoombak.com, text message alerts, or accessing
customer care for live location support. Zoombak is great for monitoring
those with special needs, teen drivers, your family pets, and staying
connected to the things that matter most to you.

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<http://ct.email.engineeringtv.com/rd/cts?d=33-34997-894-433-2752-2396008-0-0-0-1-2-192>

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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

5045. Mars Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-18 13:59:51 UTC
From: L. Paul Verhage
Topic: 5045 Message: 5045

Here's an article the development of a Mars launched weather balloon.
http://www.spaceref.com/news/viewpr.html?pid=27577

--
Onwards and Upwards,
Paul

5046. Taylor launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-20 13:51:44 UTC
From: Jeff Dailey
Topic: 5046 Message: 5046

There is a launch Saturday 2-21-2009.

Flight Information
Flight: CCLI15
Flight Number: 144
Origination: Oral Roberts University
Flight Locaction: Tulsa OK.
Flight Time: 10:00AM
APRS: KB9ZNZ-11

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5047. Interesting audio of "UFO" - Possible ARHAB?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-20 18:05:41 UTC
From: gregwilliams@knology.net
Topic: 5047 Message: 5047

http://www.2shared.com/file/4920499/2d7fb2ad/f15chase.html

I'm working to try and get more info on this as to when and where this was recorded, but it sounds like 2, maybe 3 F-15 pilots encountering an object at about 17k feet.

The airspeeds they indicate (30-80 knots) and it looked to be climbing 17k, then 17,700, then 18k feet.

They indicate it "looked like a rock". I wonder if it could also be one of those "space balloons" that's been discussed for use as a super-pressure balloon.

Interesting to listen to. Consistent with that of a balloon of some sort judging by speed and altitude climb.

---
mail2web - Check your email from the web at
http://link.mail2web.com/mail2web

5048. recent prices for Kaymont?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-21 04:22:29 UTC
From: Mark Conner
Topic: 5048 Message: 5048

Anyone make some orders recently from Kaymont? I'm looking to buy a few 1200 or 1500g balloons shortly and wondering what to expect on prices.

73 de Mark N9XTN

5049. Re: [GPSL] recent prices for Kaymont?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-21 06:58:01 UTC
From: Mike Manes
Topic: 5048 Message: 5049

Paul and I spoke recently, and he did say the price for 3000's was going up by $10 due to exchange rate pains. So I'd expect Totek 1200's from Kaymont to go up at the most by $5.

Paul's good at responding to emails: paul@...

73 de Mike W5VSI

Mark Conner wrote:
> Anyone make some orders recently from Kaymont? I'm looking to buy a
> few 1200 or 1500g balloons shortly and wondering what to expect on
> prices.
>
> 73 de Mark N9XTN
>
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

5050. Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-22 13:10:06 UTC
From: Ralph Wallio, W0RPK
Topic: 5050 Message: 5050

Jonathan Trappe has an Amateur Radio license, KJ4GQV, as of 16Sep08. This may have been his first
APRS-equipped ClusterBalloon flight. Peak APRS reported altitude was 53kft. I sent him a message
and will share any significant response.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Stewart Todd Morgan" <morgan_st@...>
To: <W0RPK@...>
Sent: Saturday, February 21, 2009 18:09
Subject: KJ4GQV Balloon on 21 Feb 2009

Hi,

I was experimenting with some APRS software today when I looked at the
list of mobile stations in my area and noticed a balloon taking off a
little after 2000 UTC today in Statesville, NC. The callsign was
KJ4GQV, and his packets were advertising his web site,
www.ClusterBalloon.com. The balloon apparently made it to over 53000 ft.

He seems like quite a character. Might want to keep an eye on him.

Todd
AL0I

5051. Re: [GPSL] Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-23 04:23:51 UTC
From: Mike Manes
Topic: 5050 Message: 5051

If he actually hit 53K', then the FAA will be giving him a visit, since he busted Class A airspace. Maybe at his funeral, if he weren't wearing a pressure suit, or as a minimum, breathing 100% oxygen. Then again, he may have been granted a waiver, but he'd still need the suit and/or O2. Could be the beacon was on one of the balloons that he cut away.

73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
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> APRS-equipped ClusterBalloon flight. Peak APRS reported altitude was 53kft. I sent him a message
> and will share any significant response.
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> http://showcase.netins.net/web/wallio/
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> From: "Stewart Todd Morgan" <morgan_st@...>
> To: <W0RPK@...>
> Sent: Saturday, February 21, 2009 18:09
> Subject: KJ4GQV Balloon on 21 Feb 2009
>
>
> Hi,
>
> I was experimenting with some APRS software today when I looked at the
> list of mobile stations in my area and noticed a balloon taking off a
> little after 2000 UTC today in Statesville, NC. The callsign was
> KJ4GQV, and his packets were advertising his web site,
> www.ClusterBalloon.com. The balloon apparently made it to over 53000 ft.
>
> He seems like quite a character. Might want to keep an eye on him.
>
>
> Todd
> AL0I
>

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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5052. Re: [GPSL] Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-23 06:58:39 UTC
From: wb8elk@aol.com
Topic: 5050 Message: 5052

Hi Mike...I found this mention of his plans to go above 18,000 feet on his website...apparently he does have an FAA waiver to do so (and the required equipment)....but 53,000 feet seems a bit much...I would make more sense to think that the APRS tracker went up on a balloon he cut free...or was a test flight of his to see how high one the balloons he uses could go before bursting...but who knows...it would be interesting to see more news on this.

- Bill WB8ELK

From"ClusterBalloon.com"

==========
Trappe's first cluster balloon flight soared to 14,783 feet-- in a standard, unmodified Steelcase Uno office chair. His next flight, under the 'Blueberry Cluster,' ascended right to the threshold of the highest altitude allowed by the FAA: 17,930 feet (just shy of the Class A controlled airspace at 18,000 feet!)
Now, with a waiver from the FAA and the required equipment (aircraft transponder, oxygen system, aircraft radios, plus permission from local and regional air-traffic controllers) Trappe is planning a flight into very thin air: above 20,000 feet! This is the altitude regional jets fly! At these altitudes, the air is thin, and cold. An adventure indeed.
==========

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(http://pr.atwola.com/promoclk/100126575x1218822736x1201267884/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5053. Re: [GPSL] Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-23 10:47:26 UTC
From: Ralph Wallio, W0RPK
Topic: 5050 Message: 5053

The KJ4GQV APRS track was a conventional unmanned ARHAB flight with a single balloon. Another
unmanned ARHAB flight, this time with Girl Scout participation, will be announced in a few weeks. --
Ralph W0RPK

5054. Re: [GPSL] Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-24 01:43:19 UTC
From: Mike Manes
Topic: 5050 Message: 5054

Hi Bill,

He'd need quite a few more balloons to get to 50K - like 10x as many, assuming that the ones he flies now are filled just shy of burst. And that pressure suit will boost his neck load quite a bit!

OK on his getting waiver and transponder. I guess he managed to persuade the FAA that he didn't need an airworthiness cert for his balloons and lawn chair :=}.

Seems his 53K' flight was just another ARHAB unmanned flight - glad to see that he's discovered what REAL ballooning's about, eh? :=P

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike...I found this mention of his plans to go above 18,000 feet on
> his website...apparently he does have an FAA waiver to do so (and the
> required equipment)....but 53,000 feet seems a bit much...I would make
> more sense to think that the APRS tracker went up on a balloon he cut
> free...or was a test flight of his to see how high one the balloons he
> uses could go before bursting...but who knows...it would be interesting
> to see more news on this.
>
> - Bill WB8ELK
>
> From"ClusterBalloon.com"
>
>
> ==
>
> Trappe's first cluster balloon flight soared to 14,783 feet-- in a
> standard, unmodified Steelcase Uno office chair. His next flight, under
> the 'Blueberry Cluster,' ascended right to the threshold of the highest
> altitude allowed by the FAA: 17,930 feet (just shy of the Class A
> controlled airspace at 18,000 feet!)
>
> Now, with a waiver from the FAA and the required equipment (aircraft
> transponder, oxygen system, aircraft radios, plus permission from local
> and regional air-traffic controllers) Trappe is planning a flight into
> very thin air: above 20,000 feet! This is the altitude regional jets
> fly! At these altitudes, the air is thin, and cold. An adventure indeed.
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rNO62>*
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5055. GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-24 13:59:41 UTC
From: L. Paul Verhage
Topic: 4595 Message: 5055

Looking at the calendar and getting input, G:PSL 2009 will take place on the weekend of July 18th.

Paul

--
Onwards and Upwards,
Paul

5056. Re: [Balloonatics] max altitude from 200g balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-24 16:26:29 UTC
From: Joe
Topic: 5056 Message: 5056

Morning all,

In the spirit of "Open Source Amateur Ballooning" I offer the
community a web based version of what we here at Near Space Sciences
have been using for all twenty years of doing these flights. before the
coming of the home computer we did it all on paper! now it's soo simple
it can be done in a web browser!

Only catch you must have java activated. or it won't work for you.

But we have been using this for longer than I can remember now, and
it's always been spot on, if it predicts the balloon should pop at
108,000 feet it pops someplace between 107 and 109 every time!

Enjoy all.
Feel free to publicize it to any list interested.
Joe

wb8elk@... wrote:

>Hi Jason and all,
>
> I'm in the process of converting that very nicely done UK spreadsheet to
>English units (at least as far as entering the data and some of the outputs).
>
> It does agree with my DOS program "BALLIFT" as far as the predictions,
>which I would expect since it uses the same type of balloon burst data from
>Kaymont as well as the atmospheric modeling parameters.
>
> My best estimate is for 100,000 feet based on a 2000 gram balloon with 17
>pounds of nozzle lift with a 12 pound flight train below the balloon (to get
>about a 1000-ft/min ascent rate)....that agrees within 1000 feet for either
>the spreadsheet or my Ballift program.
>
> I'll get to work converting my DOS program to Visual Basic this week.
>
>- Bill WB8ELK
>
>**********A Good Credit Score is 700 or Above. See yours in just 2 easy
>steps!
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5057. Re: [Balloonatics] max altitude from 200g balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-24 16:31:45 UTC
From: Joe
Topic: 5056 Message: 5057

Would help if I attached the address yes?

http://www.qsl.net/wb9sbd/burst-calculator.html

enjoy!

Joe

Joe wrote:

> Morning all,
>
> In the spirit of "Open Source Amateur Ballooning" I offer the
> community a web based version of what we here at Near Space Sciences
> have been using for all twenty years of doing these flights. before
> the coming of the home computer we did it all on paper! now it's soo
> simple it can be done in a web browser!
>
> Only catch you must have java activated. or it won't work for you.
>
> But we have been using this for longer than I can remember now, and
> it's always been spot on, if it predicts the balloon should pop at
> 108,000 feet it pops someplace between 107 and 109 every time!
>
> Enjoy all.
> Feel free to publicize it to any list interested.
> Joe
>
>
>
> wb8elk@... wrote:
>
>> Hi Jason and all,
>>
>> I'm in the process of converting that very nicely done UK
>> spreadsheet to English units (at least as far as entering the data
>> and some of the outputs).
>>
>> It does agree with my DOS program "BALLIFT" as far as the
>> predictions, which I would expect since it uses the same type of
>> balloon burst data from Kaymont as well as the atmospheric modeling
>> parameters.
>>
>> My best estimate is for 100,000 feet based on a 2000 gram balloon
>> with 17 pounds of nozzle lift with a 12 pound flight train below the
>> balloon (to get about a 1000-ft/min ascent rate)....that agrees

>> within 1000 feet for either the spreadsheet or my Ballift program.
>>
>> I'll get to work converting my DOS program to Visual Basic this week.
>>
>> - Bill WB8ELK
>>
>> **********A Good Credit Score is 700 or Above. See yours in just
>> 2 easy steps!
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5058. Re: Fw: KJ4GQV Balloon on 21 Feb 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-24 22:52:57 UTC
From: K. Mark Caviezel
Topic: 5050 Message: 5058

I've served as co-conspirator, launch crew, and technical advisor to Jonathan Trappe's manned and recent unmanned flight. He has flown on 34 to 38 'chloroprene' balloons, each filled with one K-bottle's worth of helium, resulting in about 12 pounds net lift per cell. The chloroprene balloons are about 630 grams each and it appears from the recent single cell flight that their burst diameter is apreciably smaller than a 600 gram latex balloon. Jon reported that the fill and launch was smoothly conducted, squleching the theory of the possibility of damage to the cell from pre-flight handling resulting in a lower than predicted burst altitude. The recent flight was conducted specifically to test the service ceiling of these chloroprene balloons.

BTW, his aircraft qualifies as Part 103 ultralight so no registration, and no N-number is needed, and he can fly in a completely legal manner (daytime VFR free of clouds) in Class E and G airspace with no comm, transponder, or FAA oversight or co-ordination. But he normally flies with an aviation radio, a transponder, and APRS and SPOT trackers. I believe he is trying to get an N-number for his aircraft (paraglider harness) to enable the possibility of cluster balloon flights in Europe.

One topic of interest is cell-to-cell damage, if any, of flying multiple cells together. I recall from the numerous Pioneer Astronautics/EOSS 'grapes' missions used to simulate Mars atmospheric entry that we would lose a cells one cell at a time, and never had an instance of one cell taking out another when it popped. I'd have to look it up, but these were missions in the range of EOSS 44 through the infamous EOSS 50.

Constructive, authoritative knowledge about cell-to-cell damage for clusters of extensible balloons is invited. Mr. Trappe is CC'ed.

best regards,

- Mark ng0x, pilot N123WX 'the white balloon'

5059. Streaming video of the upcoming UAH Balloonsat launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-25 08:39:42 UTC
From: wb8elk@aol.com
Topic: 5059 Message: 5059

During this Saturday's UAH balloon launch from Huntsville AL (8:00 am CST) I plan to do a test of streaming video of the launch via my laptop and a Verizon wireless card using the British Amateur Television Club's streaming video website. You have to be a paid member of the BATC to stream video, but anyone can watch their video streams. In fact, their streaming video service can handle quite a number of simultaneous viewers and it includes a very nice chat room.....to have the chatroom display your callsign use the command "/nick <your callsign>"....i.e. for myself it would be: /nick WB8ELK

The URL for this weekend's live launch coverage (starting a bit after 7:00 am):

http://www.batc.tv (http://www.batc.tv)

select "Members Streams" on the left of the page

Scroll through the streams window until you see: WB8ELK ... click on my callsign
and then click on VIEW STREAM.

- Bill WB8ELK

If this doesn't work for some reason, it will say "not streaming" next to my callsign....if it's working, it'll say "streaming"

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(http://pr.atwola.com/promoclk/100126575x1218822736x1201267884/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5060. GPS Simulator

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-25 14:20:15 UTC
From: L. Paul Verhage
Topic: 5060 Message: 5060
Attachments: 3 described; binary payloads are missing from this source WARC

I was looking for information on reading GPS sentences with a PICAXE-18 (it's a bit harder than a BS-2 is) when I came across someone's comment on making a GPS simulator. I liked the idea, so here's what I've come up with. The attached files are the image of the completed board, the BASIC code it's programmed with, and a sample output. The board has a jumper that allows you to change configurations of the output. I'm not using this feature now since it's running low on memory. I'm collecting a full three hours of data today so I can plot the flight and check it for accuracy. I'll post that chart probably tomorrow.

It uses a PICAXE-08M, so it only has 256 bytes of memory. Outputting the GGA sentence takes all but 18 bytes of the available memory. I was looking for a formatting command like that in teh BS-2 to save memory, but can't find one. If you know, or come across the code to force the PICAXE-08M to output decimal data in two character fields, let me know (in other words, I want 1 to be formatted as 01). By using a format command, the code would take less space and I could probably as the RMC sentence to the code.

If it turns out formatting isn't possible, I'll use a larger PICAXE next time to create RMC and GGA sentences. But right now, the GPS Simulator should do a fair job of simulating the GPS output from a near spaceflight. The goal is that now you can run a flight computer on the ground and see how your program will respond without leaving the ground. You could even program a GPS fault and see how your flight computer will respond.

I'll be shooting some PCBs in the near future and will have room for a few of these simulator boards. If you'd like one to experiment with, let me know. By teh way, if you can figure a better way to code this, so it more accurately matches a real flight, let me know (this is just my first stab at the code and trying to shoehorn it into 256 bytes).

--
Onwards and Upwards,
Paul

5061. Re: [GPSL] GPS Simulator

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-25 15:24:19 UTC
From: James Hannon
Topic: 5060 Message: 5061

Good idea to have a simulator. I usually do this type of simulator on a PC. Plenty of code room to do anything you want and no hardware to build.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 2/25/2009 8:20:15 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] GPS SimulatorI was looking for information on reading GPS sentences with a PICAXE-18 (it's a bit harder than a BS-2 is) when I came across someone's comment on making a GPS simulator. I liked the idea, so here's what I've come up with. The attached files are the image of the completed board, the BASIC code it's programmed with, and a sample output. The board has a jumper that allows you to change configurations of the output. I'm not using this feature now since it's running low on memory. I'm collecting a full three hours of data today so I can plot the flight and check it for accuracy. I'll post that chart probably tomorrow.   It uses a PICAXE-08M, so it only has 256 bytes of memory. Outputting the GGA sentence takes all but 18 bytes of the available memory. I was looking for a formatting command like that in teh BS-2 to save memory, but can't find one. If you know, or come across the code to force the PICAXE-08M to output decimal data in two character fields, let me know (in other words, I want 1 to be formatted as 01). By using a format command, the code would take less space and I could probably as the RMC sentence to the code. If it turns out formatting isn't possible, I'll use a larger PICAXE next time to create RMC and GGA sentences. But right now, the GPS Simulator should do a fair job of simulating the GPS output from a near spaceflight. The goal is that now you can run a flight computer on the ground and see how your program will respond without leaving the ground. You could even program a GPS fault and see how your flight computer will respond. I'll be shooting some PCBs in the near future and will have room for a few of these simulator boards. If you'd like one to experiment with, let me know. By teh way, if you can figure a better way to code this, so it more accurately matches a real flight, let me know (this is just my first stab at the code and trying to shoehorn it into 256 bytes).
--
Onwards and Upwards,
Paul

5062. Re: [GPSL] GPS Simulator

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-25 15:35:26 UTC
From: Ed Moore
Topic: 5060 Message: 5062

If it's of any use to anyone, there's an NMEA simulator up on the UKHAS wiki, which several people have found useful for some soak-testing of cutdown algorithms and the like (in the UK we like our cut-down algorithms and embedded landing spot prediction, because there there's a lot wet stuff all around us).

http://wiki.ukhas.org.uk/code:emulator

Ed M0TEK
www.cuspaceflight.co.uk

On 25 Feb 2009, at 15:24, James Hannon wrote:

> Good idea to have a simulator. I usually do this type of simulator
> on a PC. Plenty of code room to do anything you want and no hardware
> to build.
>
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 2/25/2009 8:20:15 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] GPS Simulator
>
> I was looking for information on reading GPS sentences with a
> PICAXE-18 (it's a bit harder than a BS-2 is) when I came across
> someone's comment on making a GPS simulator. I liked the idea, so
> here's what I've come up with. The attached files are the image of
> the completed board, the BASIC code it's programmed with, and a
> sample output. The board has a jumper that allows you to change
> configurations of the output. I'm not using this feature now since
> it's running low on memory. I'm collecting a full three hours of
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> memory. I was looking for a formatting command like that in teh
> BS-2 to save memory, but can't find one. If you know, or come

> across the code to force the PICAXE-08M to output decimal data in
> two character fields, let me know (in other words, I want 1 to be
> formatted as 01). By using a format command, the code would take
> less space and I could probably as the RMC sentence to the code.
>
> If it turns out formatting isn't possible, I'll use a larger PICAXE
> next time to create RMC and GGA sentences. But right now, the GPS
> Simulator should do a fair job of simulating the GPS output from a
> near spaceflight. The goal is that now you can run a flight
> computer on the ground and see how your program will respond without
> leaving the ground. You could even program a GPS fault and see how
> your flight computer will respond.
>
> I'll be shooting some PCBs in the near future and will have room for
> a few of these simulator boards. If you'd like one to experiment
> with, let me know. By teh way, if you can figure a better way to
> code this, so it more accurately matches a real flight, let me know
> (this is just my first stab at the code and trying to shoehorn it
> into 256 bytes).
>
> --
> Onwards and Upwards,
> Paul
>
>

5063. GPS Sim Code

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-25 19:33:47 UTC
From: L. Paul Verhage
Topic: 5063 Message: 5063
Attachments: 1 described; binary payloads are missing from this source WARC

I fixed a bug int he code and gave it better resolution. It also now takes into account the knee in the ascent rate.

I see the terminal program in the PICAXE Editor doesn't have a large enough buffer for 3 hours of flight. So I'll try connecting the simulator to a flight computer and collect data that way. I want to see the descent profile looks reasonably correct.

--
Onwards and Upwards,
Paul

5064. Whatever Happened To Heathkit?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-26 01:52:38 UTC
From: Mike Manes
Topic: 5064 Message: 5064

Thought this trip in the wayback machine might be worth a visit. My first ham rig was a Heath DX-40 and AR-3 (with a command set "Q-5er" on the IF).

http://electronicdesign.com/Articles/Index.cfm?ArticleID=20689&pg=1

Some nice links to current kit suppliers is included.

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5065. Re: [GPSL] Whatever Happened To Heathkit?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-26 13:55:22 UTC
From: L. Paul Verhage
Topic: 5064 Message: 5065

Are we all old folks?

I've never built a Heath Kit, but I can remember neighbors who did. I'm getting ready to teach some 4H'ers how to build robots with Health Kit in mind.

Paul "Not that old yet" Verhage

On Wed, Feb 25, 2009 at 7:52 PM, Mike Manes <mrmanes@...> wrote:

> Thought this trip in the wayback machine might be worth a visit. My first
> ham rig was a Heath DX-40 and AR-3 (with a command set "Q-5er" on the IF).
>
> http://electronicdesign.com/Articles/Index.cfm?ArticleID=20689&pg=1
>
> Some nice links to current kit suppliers is included.
>
> 73 de Mike W5VSI
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5066. GPS Simulator

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-26 14:45:06 UTC
From: L. Paul Verhage
Topic: 5060 Message: 5066
Attachments: 1 described; binary payloads are missing from this source WARC

I ran a test last night on the simulator and found some coding errors. Attached is an image of it being used. It's back at school now undergoing a new test. so far the flight computer thinks its at 33,000 feet and climbing. It's cool to see the flight computer run a mission while sitting on my bench.

--
Onwards and Upwards,
Paul

5067. Streaming video of the upcoming UAH Balloonsat launch - Weather scrub until 3/7

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-27 13:06:19 UTC
From: wb8elk@aol.com
Topic: 5067 Message: 5067

Bad weather this weekend with high winds and heavy rain....the launch and streaming video webcast will be delayed until next Saturday March 7th...same time at 7:00 am Central time.

- Bill WB8ELK

primary tracking:

APRS 144.390 MHz KI4ZUW-11
APRS 144.390 MHz KI4AIP-11

backup tracking:
APRS 144.990 MHz KG4WSV-11

WB8ELK 144.34 MHz (multimode) - FM and SSB (RTTY, CW, Hellscreiber, DominoEX) - possible SSTV (Martin 1) in FM mode

2000g He filled balloon
target ascent rate 1000 ft/min

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5068. GPS Simulator and Vacuum Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-02-27 19:28:57 UTC
From: L. Paul Verhage
Topic: 5068 Message: 5068
Attachments: 2 described; binary payloads are missing from this source WARC

I've finalized the design for the GPS Simulator and have attached a spredsheet from a simulated flight. I'm finally happy wit the code (which is also attached). While not perfect, I think it's good enough to to test a flight computer's programming for a mission.

For the vacuum chamber, I've replaced the plastic jar with a metal one. That way I can pack dry ice around it without worrying about making the plastic brittle. I tried a larger metal jar for the chamber (large enough to park a CubeSat inside) but found the plastic lid was too thin for the vacuum we were pulling. The UV bank is done and tested, it turns on when a super magnet is applied to the tank. I'll toss a piece of Fiesta Ware inside the chmaber to increase the radiation background. It won't be as much as at 62,000 feet (or the same amount of energy), but I think it will be a reasonable compromise.

--
Onwards and Upwards,
Paul

5069. Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 18:08:05 UTC
From: Pete Lilja
Topic: 5069 Message: 5069

I'm a little hesistant to ask as it is probably so simple...however, when looking at the spec page for Kaymont Sounding Balloons I am not sure I am understanding all I need to know when determining the size balloon needed for a flight.

http://www.kaymont.com/pages/sounding-balloons.cfm

Suppose I have X lbs. of weight in and including my payload box, parachute and suspension lines and I want X lbs. of lift beyond my payload which rows should I consider in the above referenced chart?

An additional question is extra lift: In my notes from Verhage's book I have written to have 4 to 5 lbs. of lift beyond the payload (non balloon) weight. Is that a reasonable assumption to insure a balloon rise to burst altitude?

Thanks,

Pete
KCØGPB

5070. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 18:52:47 UTC
From: L. Paul Verhage
Topic: 5069 Message: 5070

I recommend using the LiftWin program rather than looking at sounding charts (the chart, I believe, assume a specific payload weight that probably won't match your weights). Once you get the total weight you want to lift, you need to fill the balloon with that much helium plus an additional few pounds.

You need to first fill the balloon to lift the entire weight of your modules and recovery parachute (at that point the near space vehicle is neutrally bouyant). Then any extra helium gives your near space vehicle positive lift. The greater the positive lift the faster it will climb. LiftWin is a great program to run the numbers through to see what's going to happen. It's also flexible so you can alter your payload weights. If I remember, LiftWin is on the EOSS and the Near Space Ventures websites.

I've seen balloons go neutrally bouyant with just a little positive lift, so I recommend several pounds of positive lift. The greater the ascent rate, the faster the balloon will get to burst altitude. However, it also lowers the max altitude slightly. But the decrease in max altitude is tiny compared to how much faster you'll get to burst altitude. That's because to lower your max altitude by 18,000 feet requires twice the volume of helium in the balloon.

So adding that extra one pound of lift when there's already 9 pounds of lift for the payload and 2-1/2 pounds for the balloon inside doesn't alter the initial volume inside the balloon significantly. But that extra pound might get you to burst in 2/3rds the time, which means a shorter chase.

Paul
On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...> wrote:

> I'm a little hesistant to ask as it is probably so simple...however, when
> looking at the spec page for Kaymont Sounding Balloons I am not sure I am
> understanding all I need to know when determining the size balloon needed
> for a flight.
>
> http://www.kaymont.com/pages/sounding-balloons.cfm
>
> Suppose I have X lbs. of weight in and including my payload box,
> parachute and suspension lines and I want X lbs. of lift beyond my payload
> which rows should I consider in the above referenced chart?
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> An additional question is extra lift: In my notes from Verhage's book I
> have written to have 4 to 5 lbs. of lift beyond the payload (non balloon)
> weight. Is that a reasonable assumption to insure a balloon rise to burst
> altitude?
>

> Thanks,
>
> Pete
> KCØGPB
>
>
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>

--
Onwards and Upwards,
Paul

5071. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 19:09:31 UTC
From: Pete Lilja
Topic: 5069 Message: 5071

Thank you, Paul. That is a clear explanation.

However, my initial question relates more to which size balloon I should purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have the capability of a proper fill / lift depending on the final payload design and weight. That is where I am confused by the Kaymont chart. I'd rather purchase no larger (more expensive) balloon than needed.

I'm sorry I wasn't more clear with my question.

Pete

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Monday, March 02, 2009 12:52 PM
Subject: Re: [GPSL] Lift Question

I recommend using the LiftWin program rather than looking at sounding charts (the chart, I believe, assume a specific payload weight that probably won't match your weights). Once you get the total weight you want to lift, you need to fill the balloon with that much helium plus an additional few pounds.

You need to first fill the balloon to lift the entire weight of your modules and recovery parachute (at that point the near space vehicle is neutrally bouyant). Then any extra helium gives your near space vehicle positive lift. The greater the positive lift the faster it will climb. LiftWin is a great program to run the numbers through to see what's going to happen. It's also flexible so you can alter your payload weights. If I remember, LiftWin is on the EOSS and the Near Space Ventures websites.

I've seen balloons go neutrally bouyant with just a little positive lift, so I recommend several pounds of positive lift. The greater the ascent rate, the faster the balloon will get to burst altitude. However, it also lowers the max altitude slightly. But the decrease in max altitude is tiny compared to how much faster you'll get to burst altitude. That's because to lower your max altitude by 18,000 feet requires twice the volume of helium in the balloon.

So adding that extra one pound of lift when there's already 9 pounds of lift for the payload and 2-1/2 pounds for the balloon inside doesn't alter the initial volume inside the balloon significantly. But that extra pound might get you to burst in 2/3rds the time, which means a shorter chase.

Paul

On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...> wrote:

I'm a little hesistant to ask as it is probably so simple...however, when looking at the spec page for Kaymont Sounding Balloons I am not sure I am understanding all I need to know when determining the size balloon needed for a flight.

http://www.kaymont.com/pages/sounding-balloons.cfm

Suppose I have X lbs. of weight in and including my payload box, parachute and suspension lines and I want X lbs. of lift beyond my payload which rows should I consider in the above referenced chart?

An additional question is extra lift: In my notes from Verhage's book I have written to have 4 to 5 lbs. of lift beyond the payload (non balloon) weight. Is that a reasonable assumption to insure a balloon rise to burst altitude?

Thanks,

Pete
KCØGPB

--
Onwards and Upwards,
Paul

5072. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 19:30:31 UTC
From: Mark Conner
Topic: 5069 Message: 5072

If you're flying less than 12 lbs., you can't go wrong with a 1200g balloon - this will get you into the 80-95 kft range (closer to 80 at 12 lbs, you might get near or over 100 kft if you're down around 4-6 lbs and don't overfill).

The Kaymont chart isn't very helpful as it assumes a normal radiosonde weight. Spending about a half-hour on LiftWin will show you a lot more useful info.

http://www.geocities.com/n1ltv/newliftwin.htm

73 de Mark N9XTN

On Mon, Mar 2, 2009 at 13:09, Pete Lilja <plilja@...> wrote:
> Thank you, Paul. That is a clear explanation.
>
> However, my initial question relates more to which size balloon I should
> purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have the
> capability of a proper fill / lift depending on the final payload design and
> weight. That is where I am confused by the Kaymont chart. I'd rather
> purchase no larger (more expensive) balloon than needed.
>
> I'm sorry I wasn't more clear with my question.
>
> Pete
>
>
> ----- Original Message -----
> From: L. Paul Verhage
> To: GPSL@yahoogroups.com
> Sent: Monday, March 02, 2009 12:52 PM
> Subject: Re: [GPSL] Lift Question
>
> I recommend using the LiftWin program rather than looking at sounding charts
> (the chart, I believe, assume a specific payload weight that probably won't
> match your weights). Once you get the total weight you want to lift, you
> need to fill the balloon with that much helium plus an additional few
> pounds.
>
> You need to first fill the balloon to lift the entire weight of your modules
> and recovery parachute (at that point the near space vehicle is neutrally
> bouyant). Then any extra helium gives your near space vehicle positive
> lift. The greater the positive lift the faster it will climb. LiftWin is a
> great program to run the numbers through to see what's going to happen.
> It's also flexible so you can alter your payload weights. If I remember,
> LiftWin is on the EOSS and the Near Space Ventures websites.

>
> I've seen balloons go neutrally bouyant with just a little positive lift, so
> I recommend several pounds of positive lift. The greater the ascent rate,
> the faster the balloon will get to burst altitude. However, it also lowers
> the max altitude slightly. But the decrease in max altitude is tiny
> compared to how much faster you'll get to burst altitude. That's because to
> lower your max altitude by 18,000 feet requires twice the volume of helium
> in the balloon.
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> So adding that extra one pound of lift when there's already 9 pounds of lift
> for the payload and 2-1/2 pounds for the balloon inside doesn't alter
> the initial volume inside the balloon significantly. But that extra pound
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> Paul
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>>
>> I'm a little hesistant to ask as it is probably so simple...however, when
>> looking at the spec page for Kaymont Sounding Balloons I am not sure I am
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>>
>> http://www.kaymont.com/pages/sounding-balloons.cfm
>>
>> Suppose I have X lbs. of weight in and including my payload box,
>> parachute and suspension lines and I want X lbs. of lift beyond my payload
>> which rows should I consider in the above referenced chart?
>>
>> An additional question is extra lift: In my notes from Verhage's book I
>> have written to have 4 to 5 lbs. of lift beyond the payload (non balloon)
>> weight. Is that a reasonable assumption to insure a balloon rise to burst
>> altitude?
>>
>> Thanks,
>>
>> Pete
>> KCØGPB
>>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

5073. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 19:29:59 UTC
From: Mark Conner
Topic: 5069 Message: 5073

If you're flying less than 12 lbs., you can't go wrong with a 1200g balloon - this will get you into the 80-95 kft range (closer to 80 at 12 lbs, you might get near or over 100 kft if you're down around 4-6 lbs and don't overfill).

The Kaymont chart isn't very helpful as it assumes a normal radiosonde weight. Spending about a half-hour on LiftWin will show you a lot more useful info.

http://www.geocities.com/n1ltv/newliftwin.htm

73 de Mark N9XTN

On Mon, Mar 2, 2009 at 13:09, Pete Lilja <plilja@...> wrote:
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> weight. That is where I am confused by the Kaymont chart. I'd rather
> purchase no larger (more expensive) balloon than needed.
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> I'm sorry I wasn't more clear with my question.
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> Pete
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> ----- Original Message -----
> From: L. Paul Verhage
> To: GPSL@yahoogroups.com
> Sent: Monday, March 02, 2009 12:52 PM
> Subject: Re: [GPSL] Lift Question
>
> I recommend using the LiftWin program rather than looking at sounding charts
> (the chart, I believe, assume a specific payload weight that probably won't
> match your weights). Once you get the total weight you want to lift, you
> need to fill the balloon with that much helium plus an additional few
> pounds.
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> You need to first fill the balloon to lift the entire weight of your modules
> and recovery parachute (at that point the near space vehicle is neutrally
> bouyant). Then any extra helium gives your near space vehicle positive
> lift. The greater the positive lift the faster it will climb. LiftWin is a
> great program to run the numbers through to see what's going to happen.
> It's also flexible so you can alter your payload weights. If I remember,
> LiftWin is on the EOSS and the Near Space Ventures websites.

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> the max altitude slightly. But the decrease in max altitude is tiny
> compared to how much faster you'll get to burst altitude. That's because to
> lower your max altitude by 18,000 feet requires twice the volume of helium
> in the balloon.
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> So adding that extra one pound of lift when there's already 9 pounds of lift
> for the payload and 2-1/2 pounds for the balloon inside doesn't alter
> the initial volume inside the balloon significantly. But that extra pound
> might get you to burst in 2/3rds the time, which means a shorter chase.
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>> Suppose I have X lbs. of weight in and including my payload box,
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>> An additional question is extra lift: In my notes from Verhage's book I
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>> weight. Is that a reasonable assumption to insure a balloon rise to burst
>> altitude?
>>
>> Thanks,
>>
>> Pete
>> KCØGPB
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> --
> Onwards and Upwards,
> Paul
>
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5074. Vacuum Chamber Progress

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 19:40:14 UTC
From: L. Paul Verhage
Topic: 5074 Message: 5074

The new (smaller) stainless steel container is working like a champ. It allows trhe vacuum pump to draw a good vacuum and then it holds it well. Over this week I'll build the dry ice box so I can chill it out.

--
Onwards and Upwards,
Paul

5075. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 19:42:05 UTC
From: nss@mwt.net
Topic: 5069 Message: 5075

You want to know how high it will get? is that what you're asking?

> Thank you, Paul. That is a clear explanation.
>
> However, my initial question relates more to which size balloon I should
> purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have the
> capability of a proper fill / lift depending on the final payload design
> and weight. That is where I am confused by the Kaymont chart. I'd rather
> purchase no larger (more expensive) balloon than needed.
>
> I'm sorry I wasn't more clear with my question.
>
> Pete
>
> ----- Original Message -----
> From: L. Paul Verhage
> To: GPSL@yahoogroups.com
> Sent: Monday, March 02, 2009 12:52 PM
> Subject: Re: [GPSL] Lift Question
>
>
>
> I recommend using the LiftWin program rather than looking at sounding
> charts (the chart, I believe, assume a specific payload weight that
> probably won't match your weights). Once you get the total weight you
> want to lift, you need to fill the balloon with that much helium plus an
> additional few pounds.
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> You need to first fill the balloon to lift the entire weight of your
> modules and recovery parachute (at that point the near space vehicle is
> neutrally bouyant). Then any extra helium gives your near space vehicle
> positive lift. The greater the positive lift the faster it will climb.
> LiftWin is a great program to run the numbers through to see what's
> going to happen. It's also flexible so you can alter your payload
> weights. If I remember, LiftWin is on the EOSS and the Near Space
> Ventures websites.
>
> I've seen balloons go neutrally bouyant with just a little positive
> lift, so I recommend several pounds of positive lift. The greater the
> ascent rate, the faster the balloon will get to burst altitude.
> However, it also lowers the max altitude slightly. But the decrease in
> max altitude is tiny compared to how much faster you'll get to burst
> altitude. That's because to lower your max altitude by 18,000 feet
> requires twice the volume of helium in the balloon.
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> So adding that extra one pound of lift when there's already 9 pounds of
> lift for the payload and 2-1/2 pounds for the balloon inside doesn't
> alter the initial volume inside the balloon significantly. But that
> extra pound might get you to burst in 2/3rds the time, which means a
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> Paul
>
> On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...> wrote:
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> I'm a little hesistant to ask as it is probably so simple...however,
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> sure I am understanding all I need to know when determining the size
> balloon needed for a flight.
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> http://www.kaymont.com/pages/sounding-balloons.cfm
>
> Suppose I have X lbs. of weight in and including my payload box,
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> payload which rows should I consider in the above referenced chart?
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> An additional question is extra lift: In my notes from Verhage's book
> I have written to have 4 to 5 lbs. of lift beyond the payload (non
> balloon) weight. Is that a reasonable assumption to insure a balloon
> rise to burst altitude?
>
> Thanks,
>
> Pete
> KC?GPB
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> --
> Onwards and Upwards,
> Paul
>
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5076. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 20:34:08 UTC
From: Pete Lilja
Topic: 5069 Message: 5076

No - I just want to know which size balloon will hold enough gas to lift a given payload weight without overpurchasing a (too big) balloon for a typical ARHAB-type flight. The Kaymont chart lists several varying "lifts" and I was (still am) confused as to which to use to determine that.

Mark Conner has answered directly with 1200 grams balloons being a good size.

Have I really written these questions that unclear? Perhaps so - I do apologize.

I'll try to get some 1200 gram balloons.

Pete

----- Original Message -----
From: nss@...
To: GPSL@yahoogroups.com
Sent: Monday, March 02, 2009 1:42 PM
Subject: Re: [GPSL] Lift Question

You want to know how high it will get? is that what you're asking?

> Thank you, Paul. That is a clear explanation.
>
> However, my initial question relates more to which size balloon I should
> purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have the
> capability of a proper fill / lift depending on the final payload design
> and weight. That is where I am confused by the Kaymont chart. I'd rather
> purchase no larger (more expensive) balloon than needed.
>
> I'm sorry I wasn't more clear with my question.
>
> Pete
>
> ----- Original Message -----
> From: L. Paul Verhage
> To: GPSL@yahoogroups.com
> Sent: Monday, March 02, 2009 12:52 PM
> Subject: Re: [GPSL] Lift Question
>
>
>
> I recommend using the LiftWin program rather than looking at sounding
> charts (the chart, I believe, assume a specific payload weight that
> probably won't match your weights). Once you get the total weight you
> want to lift, you need to fill the balloon with that much helium plus an
> additional few pounds.
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> You need to first fill the balloon to lift the entire weight of your
> modules and recovery parachute (at that point the near space vehicle is
> neutrally bouyant). Then any extra helium gives your near space vehicle
> positive lift. The greater the positive lift the faster it will climb.
> LiftWin is a great program to run the numbers through to see what's
> going to happen. It's also flexible so you can alter your payload
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> lift, so I recommend several pounds of positive lift. The greater the
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> Paul
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> On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...t> wrote:
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> I'm a little hesistant to ask as it is probably so simple...however,
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> Thanks,
>
> Pete
> KCØGPB
>
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> --
> Onwards and Upwards,
> Paul
>
>
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5077. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 23:33:26 UTC
From: Mike Manes
Topic: 5069 Message: 5077

Paul recommended Hank Riley's LiftWin, and so do I. There's link to
download it on www.eoss.org - just hit the search for "liftwin".
This handy little app accepts your neck load and balloon model,
and you can enter min and max diameter if you need to tweak to
get a 1000 fpm ascent rate. It will also estimate the burst altitude.
If your initial balloon selection won't make your desired altitude
at 1000 fpm, then pick the next larger size.

Simple, huh?

EOSS has found LiftWin's computations to be pretty much dead on for
1200 gm balloon, but we use a bit lighter fill for 3000's - using
gross gas lift of 1.15 x the system gross weight (payload + balloon).
Fill a tare weight to gross lift minus balloon weight and pump gas
until the tare weight floats, being ever mindful of "false lift"
due to wind blowing over the top of the balloon - from whence the
EOSS Motto derives, "A Little More Gas".

73 de Mike W5VSI
CTO EOSS

Pete Lilja wrote:
> Thank you, Paul. That is a clear explanation.
>
> However, my initial question relates more to which /size/ balloon I
> should purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have
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> design and weight. That is where I am confused by the Kaymont chart.
> I'd rather purchase no larger (more expensive) balloon than needed.
>
> I'm sorry I wasn't more clear with my question.
>
> Pete
>
>
> ----- Original Message -----
> *From:* L. Paul Verhage <mailto:nearsys@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Monday, March 02, 2009 12:52 PM
> *Subject:* Re: [GPSL] Lift Question
>
> I recommend using the LiftWin program rather than looking at
> sounding charts (the chart, I believe, assume a specific payload
> weight that probably won't match your weights). Once you get the
> total weight you want to lift, you need to fill the balloon with
> that much helium plus an additional few pounds.

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> You need to first fill the balloon to lift the entire weight of your
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> lift, so I recommend several pounds of positive lift. The greater
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> So adding that extra one pound of lift when there's already 9 pounds
> of lift for the payload and 2-1/2 pounds for the balloon inside
> doesn't alter the initial volume inside the balloon significantly.
> But that extra pound might get you to burst in 2/3rds the time,
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> Paul
> On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
> I'm a little hesistant to ask as it is probably so
> simple...however, when looking at the spec page for Kaymont
> Sounding Balloons I am not sure I am understanding all I need to
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> Suppose I have X lbs. of weight in and including my payload box,
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> Verhage's book I have written to have 4 to 5 lbs. of lift beyond
> the payload (non balloon) weight. Is that a reasonable
> assumption to insure a balloon rise to burst altitude?
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> Thanks,
>
> Pete
> KCØGPB

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>
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5078. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-02 23:38:50 UTC
From: Mike Manes
Topic: 5069 Message: 5078

The correct answer is to use LiftWin before you buy. You didn't mention
your payload weigt, so Mark was guessing 5 - 10 lb. If it's really just
2 lb, then you could get by just fine with a 600 or 800 gm bag. Getting
too large a balloon costs you money at purchase, and in fill gas to carry
the extra weight and finally in fuel to recover it way downrange.

73 de Mike W5VSI
CTO EOSS

Pete Lilja wrote:
> No - I just want to know which size balloon will hold enough gas to lift
> a given payload weight without overpurchasing a (too big) balloon for a
> typical ARHAB-type flight. The Kaymont chart lists several varying
> "lifts" and I was (still am) confused as to which to use to determine that.
>
> Mark Conner has answered directly with 1200 grams balloons being a good
> size.
>
> Have I really written these questions that unclear? Perhaps so - I do
> apologize.
>
> I'll try to get some 1200 gram balloons.
>
> Pete
>
>
> ----- Original Message -----
> *From:* nss@... <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Monday, March 02, 2009 1:42 PM
> *Subject:* Re: [GPSL] Lift Question
>
> You want to know how high it will get? is that what you're asking?
>
> > Thank you, Paul. That is a clear explanation.
> >
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> > I'm sorry I wasn't more clear with my question.
> >
> > Pete
> >
> > ----- Original Message -----
> > From: L. Paul Verhage
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > Sent: Monday, March 02, 2009 12:52 PM
> > Subject: Re: [GPSL] Lift Question
> >
> >
> >
> > I recommend using the LiftWin program rather than looking at sounding
> > charts (the chart, I believe, assume a specific payload weight that
> > probably won't match your weights). Once you get the total weight you
> > want to lift, you need to fill the balloon with that much helium
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> > additional few pounds.
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> > You need to first fill the balloon to lift the entire weight of your
> > modules and recovery parachute (at that point the near space
> vehicle is
> > neutrally bouyant). Then any extra helium gives your near space
> vehicle
> > positive lift. The greater the positive lift the faster it will
> climb.
> > LiftWin is a great program to run the numbers through to see what's
> > going to happen. It's also flexible so you can alter your payload
> > weights. If I remember, LiftWin is on the EOSS and the Near Space
> > Ventures websites.
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> > I've seen balloons go neutrally bouyant with just a little positive
> > lift, so I recommend several pounds of positive lift. The greater the
> > ascent rate, the faster the balloon will get to burst altitude.
> > However, it also lowers the max altitude slightly. But the
> decrease in
> > max altitude is tiny compared to how much faster you'll get to burst
> > altitude. That's because to lower your max altitude by 18,000 feet
> > requires twice the volume of helium in the balloon.
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> > So adding that extra one pound of lift when there's already 9
> pounds of
> > lift for the payload and 2-1/2 pounds for the balloon inside doesn't
> > alter the initial volume inside the balloon significantly. But that
> > extra pound might get you to burst in 2/3rds the time, which means a
> > shorter chase.
> >
> > Paul
> >
> > On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...

> <mailto:plilja%40cfu.net>> wrote:
> >
> > I'm a little hesistant to ask as it is probably so simple...however,
> > when looking at the spec page for Kaymont Sounding Balloons I am not
> > sure I am understanding all I need to know when determining the size
> > balloon needed for a flight.
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> > http://www.kaymont.com/pages/sounding-balloons.cfm
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> > Suppose I have X lbs. of weight in and including my payload box,
> > parachute and suspension lines and I want X lbs. of lift beyond my
> > payload which rows should I consider in the above referenced chart?
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> > An additional question is extra lift: In my notes from Verhage's book
> > I have written to have 4 to 5 lbs. of lift beyond the payload (non
> > balloon) weight. Is that a reasonable assumption to insure a balloon
> > rise to burst altitude?
> >
> > Thanks,
> >
> > Pete
> > KCØGPB
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> > Onwards and Upwards,
> > Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5079. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-03 00:26:44 UTC
From: Pete Lilja
Topic: 5069 Message: 5079

Thanks, Mike, and all,

I now see where our disconnect is in my questions. You all were answering me just in a way I didn't anticipate and I was missing your point(s). Like often happens and with a fresh look I now see what you mean and I'll simply work out my payload / balloon in LiftWin.

Thanks again for your insight.

Pete

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Monday, March 02, 2009 5:38 PM
Subject: Re: [GPSL] Lift Question

The correct answer is to use LiftWin before you buy. You didn't mention
your payload weigt, so Mark was guessing 5 - 10 lb. If it's really just
2 lb, then you could get by just fine with a 600 or 800 gm bag. Getting
too large a balloon costs you money at purchase, and in fill gas to carry
the extra weight and finally in fuel to recover it way downrange.

73 de Mike W5VSI
CTO EOSS

Pete Lilja wrote:
> No - I just want to know which size balloon will hold enough gas to lift
> a given payload weight without overpurchasing a (too big) balloon for a
> typical ARHAB-type flight. The Kaymont chart lists several varying
> "lifts" and I was (still am) confused as to which to use to determine that.
>
> Mark Conner has answered directly with 1200 grams balloons being a good
> size.
>
> Have I really written these questions that unclear? Perhaps so - I do
> apologize.
>
> I'll try to get some 1200 gram balloons.
>
> Pete
>
>
> ----- Original Message -----
> *From:* nss@... <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Monday, March 02, 2009 1:42 PM
> *Subject:* Re: [GPSL] Lift Question

>
> You want to know how high it will get? is that what you're asking?
>
> > Thank you, Paul. That is a clear explanation.
> >
> > However, my initial question relates more to which size balloon I
> should
> > purchase - i.e. a 1200, 1500, 2000 or 3000 so I know I'll have the
> > capability of a proper fill / lift depending on the final payload
> design
> > and weight. That is where I am confused by the Kaymont chart. I'd
> rather
> > purchase no larger (more expensive) balloon than needed.
> >
> > I'm sorry I wasn't more clear with my question.
> >
> > Pete
> >
> > ----- Original Message -----
> > From: L. Paul Verhage
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > Sent: Monday, March 02, 2009 12:52 PM
> > Subject: Re: [GPSL] Lift Question
> >
> >
> >
> > I recommend using the LiftWin program rather than looking at sounding
> > charts (the chart, I believe, assume a specific payload weight that
> > probably won't match your weights). Once you get the total weight you
> > want to lift, you need to fill the balloon with that much helium
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> > additional few pounds.
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> > You need to first fill the balloon to lift the entire weight of your
> > modules and recovery parachute (at that point the near space
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> > neutrally bouyant). Then any extra helium gives your near space
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> > going to happen. It's also flexible so you can alter your payload
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> > I've seen balloons go neutrally bouyant with just a little positive
> > lift, so I recommend several pounds of positive lift. The greater the
> > ascent rate, the faster the balloon will get to burst altitude.
> > However, it also lowers the max altitude slightly. But the
> decrease in

> > max altitude is tiny compared to how much faster you'll get to burst
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> > requires twice the volume of helium in the balloon.
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> > So adding that extra one pound of lift when there's already 9
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> > I'm a little hesistant to ask as it is probably so simple...however,
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5080. Re: [GPSL] Lift Question

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-03 00:58:33 UTC
From: Joe
Topic: 5069 Message: 5080
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Pete,

Ya can try this also,
http://www.qsl.net/wb9sbd/burst-calculator.html

Joe WB9SBD
Near Space Sciences

Pete Lilja wrote:

> Thanks, Mike, and all,
>
> I now see where our disconnect is in my questions. You all were
> answering me just in a way I didn't anticipate and I was missing your
> point(s). Like often happens and with a fresh look I now see what you
> mean and I'll simply work out my payload / balloon in LiftWin.
>
> Thanks again for your insight.
>
> Pete
>
>
> ----- Original Message -----
> From: Mike Manes <mailto:mrmanes@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Monday, March 02, 2009 5:38 PM
> Subject: Re: [GPSL] Lift Question
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> The correct answer is to use LiftWin before you buy. You didn't
> mention
> your payload weigt, so Mark was guessing 5 - 10 lb. If it's really
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> 2 lb, then you could get by just fine with a 600 or 800 gm bag.
> Getting
> too large a balloon costs you money at purchase, and in fill gas
> to carry
> the extra weight and finally in fuel to recover it way downrange.
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> 73 de Mike W5VSI
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> Pete Lilja wrote:
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> > "lifts" and I was (still am) confused as to which to use to
> determine that.
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> > Mark Conner has answered directly with 1200 grams balloons being
> a good
> > size.
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> > Have I really written these questions that unclear? Perhaps so -
> I do
> > apologize.
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> > I'll try to get some 1200 gram balloons.
> >
> > Pete
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> >
> > ----- Original Message -----
> > *From:* nss@... <mailto:nss%40mwt.net> <mailto:nss@...
> <mailto:nss%40mwt.net>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Monday, March 02, 2009 1:42 PM
> > *Subject:* Re: [GPSL] Lift Question
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> > You want to know how high it will get? is that what you're asking?
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> > > Thank you, Paul. That is a clear explanation.
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> > > However, my initial question relates more to which size balloon I
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> > > purchase no larger (more expensive) balloon than needed.
> > >
> > > I'm sorry I wasn't more clear with my question.
> > >
> > > Pete
> > >
> > > ----- Original Message -----
> > > From: L. Paul Verhage
> > > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL%40yahoogroups.com>
> > > Sent: Monday, March 02, 2009 12:52 PM
> > > Subject: Re: [GPSL] Lift Question
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> > > I recommend using the LiftWin program rather than looking at
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> > > Paul
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> > > On Mon, Mar 2, 2009 at 12:08 PM, Pete Lilja <plilja@...
> <mailto:plilja%40cfu.net>
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> > > --
> > > Onwards and Upwards,
> > > Paul
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> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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<http://www.dzsp.org>

5081. Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-03 17:06:29 UTC
From: L. Paul Verhage
Topic: 5081 Message: 5081

I just got word from Garmin that they don't do tours. So unless we have a Garmin emoployee on the list that can work something out, there won't be a Garmin tour at GPSL 2009.

--
Onwards and Upwards,
Paul

5082. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-03 17:37:00 UTC
From: James Hannon
Topic: 5081 Message: 5082

You are going to find a lot of that in high tech industry. The US export control laws (EAR and ITAR) have gotten so strict that even showing a factory to a non-us citizen could be a violation of the law. It would be a big hastle to verify the citizenship of every tourist so no tours. We don't have tours here (Rockwell Collins) anymore because of this.
Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 3/3/2009 11:06:29 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Garmin Tour
I just got word from Garmin that they don't do tours. So unless we have a Garmin emoployee on the list that can work something out, there won't be a Garmin tour at GPSL 2009.
--
Onwards and Upwards,
Paul

5083. GPSL Theme

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 02:24:26 UTC
From: L. Paul Verhage
Topic: 5083 Message: 5083

I don't think we're in Kansas anymore.

Aside from Zaggle, what online t-shirt companies have worked well for
people?

I got 55 of the BalloonSat Mini PCBs and 33 of the BalloonSat Easy PCBs.
I'll be making them available as solder kits shortly.

--
Onwards and Upwards,
Paul

5084. Re: [GPSL] GPSL Theme

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 04:20:49 UTC
From: Mike Manes
Topic: 5083 Message: 5084

Wotter those thangs?

L. Paul Verhage wrote:
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.
> I got 55 of the BalloonSat Mini PCBs and 33 of the BalloonSat Easy
> PCBs. I'll be making them available as solder kits shortly.
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5085. Re: [GPSL] GPSL Theme

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 13:52:03 UTC
From: L. Paul Verhage
Topic: 5083 Message: 5085
Attachments: 3 described; binary payloads are missing from this source WARC

Attached are copies of the GPSL 2009 logo and first draft of the media announcement. I'd like to get the logo on the SuperLaunch website.

Please look over the first draft and let me know what else should be added. Right now I'm organizing it and listing the information. I'll wordsmith later.

I've also attached a picture of the BalloonSat Mini. I put one together last night as a test. This is a solder project for BalloonSat classes that allows participants to make their own BalloonSat flight computer. It uses a PICAXE-08M and can store around 180 measurements. I think of it as a next step after using a Hobo data logger. By the weekend, I'll assemble a BalloonSat Easy, a flight computer capable of storing kb's of data.

Both flight computers can operate cameras and collect analog data to 10 bits of resolution. They're pretty cheap, so they make a good replacement for a Hobo and 555 camera timer. Plus, you have to solder and program them. So they're a more complete experience.
Paul
On Wed, Mar 4, 2009 at 10:20 PM, Mike Manes <mrmanes@...> wrote:

> Wotter those thangs?
>
> L. Paul Verhage wrote:
> .
> .
> .
> .
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> A. Einstein
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5086. Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 13:58:09 UTC
From: L. Paul Verhage
Topic: 4737 Message: 5086

I don't think KU has said anythign yet, so I will.

KU Aerospace engineering is planning a launch to test two tandum balloons. I'll donate a tracker, so one of the callsigns will be KD4STH. The frequency will be 144.390. Launch is scheduled for 7 AM this Saturday. The launch site is the soccer fields on the corner of 23rd and Iowa. The lift will come from two 1200 gram balloons. This configuration is test for a future rockoon flight. I'll get additional information and post it.

--
Onwards and Upwards,
Paul

5087. RE: [GPSL] GPSL Theme

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 14:55:35 UTC
From: Nick Hanks
Topic: 5083 Message: 5087

Might mention how many balloon groups are expected and/or mention how many groups attended previous GPSL's. How long GPSLs have been taking place might be of interest. Some of idea of the altitudes the balloons are expected to reach and how far and how long they'll fly may be of interest to the media.

Nick

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, March 05, 2009 06:52
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Theme

Attached are copies of the GPSL 2009 logo and first draft of the media announcement. I'd like to get the logo on the SuperLaunch website.

Please look over the first draft and let me know what else should be added. Right now I'm organizing it and listing the information. I'll wordsmith later.

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Both flight computers can operate cameras and collect analog data to 10 bits of resolution. They're pretty cheap, so they make a good replacement for a Hobo and 555 camera timer. Plus, you have to solder and program them. So they're a more complete experience.

Paul

On Wed, Mar 4, 2009 at 10:20 PM, Mike Manes <mrmanes@gmail.
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Wotter those thangs?

L. Paul Verhage wrote:
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> I got 55 of the BalloonSat Mini PCBs and 33 of the BalloonSat Easy
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A. Einstein

Yahoo! Groups Links

(Yahoo! ID required)

yahoogroups.com

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Onwards and Upwards,
Paul

5088. Taylor Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 15:28:18 UTC
From: Jeff Dailey
Topic: 5088 Message: 5088

We have a launch Saturday 3-7-2009.

Flight Information
Flight: STO29
Flight Number: 145
Origination: Depaul University
Flight Locaction: Chicago IL.
Flight Time: 10:00AM
APRS: KB9ZNZ-11

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5089. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-05 23:24:11 UTC
From: Joe
Topic: 4737 Message: 5089
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Paul

What do you mean by Tandem balloons, Like we tried several years ago?
Or what?

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

> I don't think KU has said anythign yet, so I will.
>
> KU Aerospace engineering is planning a launch to test two tandum
> balloons. I'll donate a tracker, so one of the callsigns will be
> KD4STH. The frequency will be 144.390. Launch is scheduled for 7 AM
> this Saturday. The launch site is the soccer fields on the corner of
> 23rd and Iowa. The lift will come from two 1200 gram balloons. This
> configuration is test for a future rockoon flight. I'll get
> additional information and post it.
>
> --
> Onwards and Upwards,
> Paul
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>

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<http://www.dzsp.org>

5090. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-06 13:53:18 UTC
From: L. Paul Verhage
Topic: 4737 Message: 5090
Attachments: 1 described; binary payloads are missing from this source WARC

The XBS group wants to launch a single payload on two side by side balloons. I'd encourage them to bypass that route and just launch a single larger balloon.

Paul

On Thu, Mar 5, 2009 at 5:24 PM, Joe <nss@...> wrote:

> Hi Paul
>
> What do you mean by Tandem balloons, Like we tried several years ago? Or
> what?
>
> Joe WB9SBD
> Near Space Sciences
>
>
> L. Paul Verhage wrote:
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> --
> Onwards and Upwards,
> Paul
>
>
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--
Onwards and Upwards,
Paul

5091. XBS Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-06 13:59:05 UTC
From: L. Paul Verhage
Topic: 5091 Message: 5091

The weather isn't cooperating, so the XBS launch for this weekend has been cancelled. Right now the launch is planned for March 21st (I'll still be on spring Break, but I'll let them use one of my tracking modules).

--
Onwards and Upwards,
Paul

5092. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-06 17:53:28 UTC
From: nss@mwt.net
Topic: 4737 Message: 5092

I agree, unless they did like we did with the seperator bar.

That was awesome while it lasted,,

cool thing tho was the recovery for it came down on the single left over balloon, one popped before the other, (even tho filled evenly)

and made locating it soo cool with the one balloon still 100 feet in the air,,,

Joe NSS

> The XBS group wants to launch a single payload on two side by side
> balloons. I'd encourage them to bypass that route and just launch a
> single
> larger balloon.
>
> Paul
>
> On Thu, Mar 5, 2009 at 5:24 PM, Joe <nss@...> wrote:
>
>> Hi Paul
>>
>> What do you mean by Tandem balloons, Like we tried several years ago?
>> Or
>> what?
>>
>> Joe WB9SBD
>> Near Space Sciences
>>
>>
>> L. Paul Verhage wrote:
>>
>> I don't think KU has said anythign yet, so I will.
>>
>> KU Aerospace engineering is planning a launch to test two tandum
>> balloons.
>> I'll donate a tracker, so one of the callsigns will be KD4STH. The
>> frequency will be 144.390. Launch is scheduled for 7 AM this Saturday.
>> The
>> launch site is the soccer fields on the corner of 23rd and Iowa. The
>> lift
>> will come from two 1200 gram balloons. This configuration is test for a
>> future rockoon flight. I'll get additional information and post it.
>>
>> --

>> Onwards and Upwards,
>> Paul
>>
>>
>> --
>> <http://www.dzsp.org/>
>>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

5093. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-07 00:43:21 UTC
From: Dan Bowen
Topic: 4737 Message: 5093

We had good luck using two 3000 g balloons when we tried for the altitude record on UX-3. They were very underinflated though, and only carried a 6lb payload. They were simply on two very long lines tied to the chute. Made it to ~115,000 if I recall.

Thanks,
Dan
UTARC/SNOX

On Mar 6, 2009, at 8:53 AM, "L. Paul Verhage" <nearsys@...> wrote:

> The XBS group wants to launch a single payload on two side by side
> balloons. I'd encourage them to bypass that route and just launch a
> single larger balloon.
>
> Paul
>
> On Thu, Mar 5, 2009 at 5:24 PM, Joe <nss@...> wrote:
> Hi Paul
>
> What do you mean by Tandem balloons, Like we tried several years
> ago? Or what?
>
> Joe WB9SBD
> Near Space Sciences
>
>
> L. Paul Verhage wrote:
>> I don't think KU has said anythign yet, so I will.
>>
>> KU Aerospace engineering is planning a launch to test two tandum
>> balloons. I'll donate a tracker, so one of the callsigns will be
>> KD4STH. The frequency will be 144.390. Launch is scheduled for 7
>> AM this Saturday. The launch site is the soccer fields on the
>> corner of 23rd and Iowa. The lift will come from two 1200 gram
>> balloons. This configuration is test for a future rockoon flight.
>> I'll get additional information and post it.
>>
>> --
>> Onwards and Upwards,
>> Paul
>
> --
> <DZSP-Banner-146x91.jpg>
>
>

>
> --
> Onwards and Upwards,
> Paul
>

5094. UAH Balloonsat flight complete and recovered - streaming video went well

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-08 00:44:01 UTC
From: wb8elk@aol.com
Topic: 5094 Message: 5094

The UAH Balloonsat flight is complete....payload landed near Fairmount, TN just north of Chattanooga, TN at: 35.2032 85.3085 .... it landed in the front yard of a house just off the road which is a good thing since it was pretty rugged and wooded terrain.

Max altitude was 99,016 feet.

This is the first time we attempted to show live Internet streaming video of the launch operations and the actual takeoff....everything worked well with comments that the video and audio looked great while inside the balloon highbay area....the video appeared somewhat washed out while outside during liftoff however since I was using the internal camera inside my laptop (I'll try to adjust the camera for the outdoors before going outside next time - or will try an external camera). We had about 8 simultaneous Internet viewers from across the country at one point and there is a nice chatroom space to the right of the image.

Streaming video details:

ASUS eeePC laptop with internal video camera and microphone
Wireless Internet connection - Verizon Wireless USB727
Adobe Media Encoder software (free download)
www.batc.tv (http://www.batc.tv) Members Streams (dedicated streams for members of the BATC)

Free alternatives that could be used: Camstreams or Ustream

The eeePC laptop is so lightweight I just carried it around and used it just like a camcorder....no cables to worry about....about 2 hours battery life is possible this way....if you're near enough to a WiFi link, you could eliminate the Verizon Wireless USB card as well.

I plan to do broadcasts like this on most of our future flights.

- Bill WB8ELK

http://www.wb8elk.com (http://www.wb8elk.com/)

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1219957551x1201325337/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5095. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-08 04:12:54 UTC
From: Mike Manes
Topic: 4737 Message: 5095

Yeah, landing under a semi-filled balloon can be real neat - unless
it's windy - in which case, you could log two launches when the bottom
of the payload string breaks away on a fence line, thus unburdening the
balloon, which goes up again. Been there, done that, and ended up
recovering from 3 separate landing sites, 20, 30 and 45 miles downrange.
But we just gave it one EOSS flight number.

73 de Mike W5VSI

nss@... wrote:
> I agree, unless they did like we did with the seperator bar.
>
> That was awesome while it lasted,,
>
> cool thing tho was the recovery for it came down on the single left over
> balloon, one popped before the other, (even tho filled evenly)
>
> and made locating it soo cool with the one balloon still 100 feet in the
> air,,,
>
> Joe NSS
>
>> The XBS group wants to launch a single payload on two side by side
>> balloons. I'd encourage them to bypass that route and just launch a
>> single
>> larger balloon.
>>
>> Paul
>>
>> On Thu, Mar 5, 2009 at 5:24 PM, Joe <nss@...> wrote:
>>
>>> Hi Paul
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>>> What do you mean by Tandem balloons, Like we tried several years ago?
>>> Or
>>> what?
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>>> Near Space Sciences
>>>
>>>
>>> L. Paul Verhage wrote:
>>>
>>> I don't think KU has said anythign yet, so I will.
>>>

>>> KU Aerospace engineering is planning a launch to test two tandum
>>> balloons.
>>> I'll donate a tracker, so one of the callsigns will be KD4STH. The
>>> frequency will be 144.390. Launch is scheduled for 7 AM this Saturday.
>>> The
>>> launch site is the soccer fields on the corner of 23rd and Iowa. The
>>> lift
>>> will come from two 1200 gram balloons. This configuration is test for a
>>> future rockoon flight. I'll get additional information and post it.
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>> --
>>> <http://www.dzsp.org/>
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>> Onwards and Upwards,
>> Paul
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5096. Smart Beaconing with Byonics TinyTrak

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-09 22:55:19 UTC
From: BASE
Topic: 5096 Message: 5096

Dear friends,

Has anyone used the smart beaconing function on the TinyTrak from Byonics to transmit more frequently when stationary and less frequently when moving?

I don't need the GPS positions more often than every two minutes during the flight, but it would be nice to have a beacon every minute after landing to help in finding the pods if GPS lock is lost.

Thanks,
Howard

5097. Re: [GPSL] Smart Beaconing with Byonics TinyTrak

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-09 23:25:05 UTC
From: L. Paul Verhage
Topic: 5096 Message: 5097

Not that, but I'm experimeint with the MicroTrak 300 and the ability to switch between two configuration settings. I have the flight computer set a pin high near flight apex to transmit beacons more frequently near burst and then again near landing.

Paul

On Mon, Mar 9, 2009 at 5:55 PM, BASE <basedepauw@...> wrote:

> Dear friends,
>
> Has anyone used the smart beaconing function on the TinyTrak from Byonics
> to transmit more frequently when stationary and less frequently when moving?
>
> I don't need the GPS positions more often than every two minutes during the
> flight, but it would be nice to have a beacon every minute after landing to
> help in finding the pods if GPS lock is lost.
>
> Thanks,
> Howard
>
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> ------------------------------------
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5098. Re: [GPSL] Smart Beaconing with Byonics TinyTrak

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-10 00:21:21 UTC
From: Roger Hammond
Topic: 5096 Message: 5098

Good evening Howard,

This won't answer your question about the TinyTrak, but for future reference the OpenTracker+ from Argentdata.com is able to switch profiles based on one or many parameters. A second, more frequent beacon rate could be set in the second profile which would be active below a certain altitude.

I'm curious to hear any responses to the smart beaconing. You may want to contact the gentlemen that developed smart beaconing at http://www.hamhud.net/hh2/smartbeacon.html

Roger KCØMWM

On Mon, Mar 9, 2009 at 5:55 PM, BASE <basedepauw@...> wrote:

>
> Dear friends,
>
> Has anyone used the smart beaconing function on the TinyTrak from Byonics
> to transmit more frequently when stationary and less frequently when moving?
>
> I don't need the GPS positions more often than every two minutes during the
> flight, but it would be nice to have a beacon every minute after landing to
> help in finding the pods if GPS lock is lost.
>
> Thanks,
> Howard
>
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> ------------------------------------
>
> Yahoo! Groups Links
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5099. Re: [GPSL] Smart Beaconing with Byonics TinyTrak

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-10 02:32:17 UTC
From: Mike Manes
Topic: 5096 Message: 5099

Sounds as though you need an independent DF beacon. A packet burst is too
short to take a DF bearing on. An independent beacon also covers you in case
the APRS beacon goes QRT.
73 de Mike W5VSI

BASE wrote:
> Dear friends,
>
> Has anyone used the smart beaconing function on the TinyTrak from Byonics to transmit more frequently when stationary and less frequently when moving?
>
> I don't need the GPS positions more often than every two minutes during the flight, but it would be nice to have a beacon every minute after landing to help in finding the pods if GPS lock is lost.
>
> Thanks,
> Howard
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5100. BASE 34 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-12 22:14:27 UTC
From: BASE
Topic: 5100 Message: 5100

Dear friends,

BASE 34 was successfully completed today.

Launch: 13:52 UTC from DePauw
Burst: 15:20 UTC at 103,800 feet
Landing: 16:12 UTC between Potsdam and Laura, Ohio (39deg 58.78 min North, 84 deg 24.77 min West)

We had a visual sighting on the descent for the last two minutes. Smooth landing in the top of four trees about 60 feet above the ground. Retrieval was accomplished with the EZ Hang slingshot system using the tennis ball as the projectile. (Only took 4 attempts, with the first two being miserable failures due to operator error by me.)

The StratoStar system sent all the flight data to the mobile tracking station in real time.

Landing support from Ron, N9QGS, and Justin,W1IX.

Additional details will follow on www.depauw.edu/acad/physics/base

Howard

5101. Loran-C going thataway ...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-14 05:27:06 UTC
From: Mike Manes
Topic: 5101 Message: 5101

EOSS's first on-board electronic navigation system used Loran-C. I think we still have that payload and ground station gear somewhere ...

Pity. Loran-C yielded some pretty accurate positions, but I guess GPS with WAAS really upstages it - at much lower cost and weight, and a LOT better reliability - not to mention 3D fixes.

Here's a clip from the 3/13/09 ARRL letter:

==> US COAST GUARD TO DISCONTINUE LORAN STATIONS

Last month, the US Coast Guard <http://www.uscg.mil/> announced that due to economic conditions, they would be closing down the 24 LORAN-C (Long Range Aid to Navigation) <http://www.navcen.uscg.gov/loran/default.htm> stations operated under the auspices of the USCG. LORAN stations provide navigation, location and timing services for both civil and military air, land and marine users. According to the USCG, LORAN-C is approved as an en route supplemental air navigation system for both Instrument Flight Rule (IFR) and Visual Flight Rule (VFR) operations. The LORAN-C system serves the 48 continental states, their coastal areas and parts of Alaska.

LORAN-A stations were developed beginning in World War II, and signals were transmitted on frequencies in and around our present-day 160 meter band. LORAN-A was responsible for reduced amateur radio operations, including frequency and power limitations, on 160 meters in the United States. In 1979, the Coast Guard phased out the LORAN-A stations; they were replaced by LORAN-C stations. The newer stations operated on 100 kHz, enabling the restrictions on the 160 meter amateur band due to LORAN functions, to be dropped.

According to the Coast Guard, the nation's oldest continuous sea-going service will continue to operate the current LORAN-C system through the end of fiscal year 2009; it is in the process of preparing detailed plans for implementing the fiscal year 2010 budget. According to USCG Vice Commandant and Chief Operating Officer Vice Admiral V. S. Crea, further details of the LORAN-C termination plan will be available upon the submission of the President's full budget. -- Some information provided by Cliff Appel, W7CGA

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5102. Launch Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-16 19:11:52 UTC
From: Jeff Dailey
Topic: 5102 Message: 5102

We have a launch Thursday 3-19-2009.

Flight Information
Flight: HARP92
Flight Number: 146
Origination: Taylor University ATAIN Conference (Principles of Engineering Class)
Flight Locaction: Upland Indiana
Flight Time: 4:30PM
APRS: KB9ZNZ-11

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5103. Balloon launch from Columbus IN on Friday - Spaceport Indiana

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-18 05:09:43 UTC
From: wb8elk@aol.com
Topic: 5103 Message: 5103

Where: Columbus, Indiana airport (Spaceport Indiana building).
39.27N 85.90W

Date: March 20th (Friday)
Time: noon EDT

144.39 APRS: WB8ELK-11 and WB8ELK-12
144.34 RTTY & Hellscreiber (FM and SSB alternating)

possible HF transmitter on 14.077 MHz (RTTY, Hellscreiber, DominoEX and CW).

Streaming video starting around 10:30 am CDT:

www.batc.tv (http://www.batc.tv)

- click on MEMBERS STREAMS
- select WB8ELK
- click on "View Stream"

Bill WB8ELK

More details will be posted later this week on _www.wb8elk.com_
(http://www.wb8elk.com)

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(http://pr.atwola.com/promoclk/100126575x1220433363x1201394532/aol?redir=http:%2F%2Fad.doub
leclick.net%2Fclk%3B212935224%3B34245239%3Bb)

5104. Owe Someone a Thanks?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-21 02:42:24 UTC
From: L. Paul Verhage
Topic: 5104 Message: 5104

I just got a message from Garmin. They would like to give GPSL a tour on Thursday. Is someone on the list a Garmin employee (and pulled some strings)?

I'll call Garmin on Monday and work out the details. So expect a Garmin tour to be on the list of events for GPSL.

Now to find helium and gas transportation.

I'll also get a list of Topeka activites for spouses who would like to visit Topeka.

--
Onwards and Upwards,
Paul

5105. ARHAB Motto?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-21 02:43:55 UTC
From: L. Paul Verhage
Topic: 5105 Message: 5105

My wife and I came up with a saying. Perhaps it would be appropriate for chase and recovery teams.

"Well, it could have been worse"

--
Onwards and Upwards,
Paul

5106. Re: [GPSL] ARHAB Motto?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-21 05:57:06 UTC
From: Mike Manes
Topic: 5105 Message: 5106

In light of the fact that EOSS has yet to experience a perfect flight
in 19 years and 135 lauches (so far), how about "coulda been better"?

L. Paul Verhage wrote:
> My wife and I came up with a saying. Perhaps it would be appropriate
> for chase and recovery teams.
>
> "Well, it could have been worse"
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5107. HALO Launch Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-22 20:20:26 UTC
From: Jeff Dailey
Topic: 5107 Message: 5107

The HALO II Project will involve 15 Universities simultaneously launching high-altitude balloons to create a balloon-to-balloon network in order to promote STEM (Science, Technology, Engineering & Mathematics) Education and conduct cutting edge multipoint science experiments. Below is a list of the Universities participating:

Flight Date: 4-4-2--9 10:00AM

Taylor University IN. Flight# 147 KB9ZNZ-1
DePauw University IN. Flight# 148 KB9ZNZ-2
University of Sothern Indiana IN. Flight# 149 KB9ZNZ-3
Ball State University IN. Flight# 150 KB9ZNZ-4
Valparaiso University IN. Flight#151 KB9ZNZ-5
DePaul University IL. Flight#152 KB9ZNZ-6
University of Wisconsin WI. Flight# 153 KB9ZNZ-7
University of Minnesota MN. Flight# 154 KB9ZNZ-8
College of St. Catherine MN. Flight# 155 KB9ZNZ-9
Iowa State University IA. Flight# 156 KB9ZNZ-10
Cedarville University OH. Flight# 157 KB9ZNZ-11
Medgar Evers College NY. Flight# 158 KB9ZNZ-12
Temple University PA. Flight# 159 KB9ZNZ-13
Bryan College TN. Flight# 160 KB9ZNZ-14
Norfolk State University VA. Flight# 161 KB9ZNZ-15

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5108. GPSL Packets

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-25 14:38:10 UTC
From: L. Paul Verhage
Topic: 5108 Message: 5108

I'm looking for things to add the the packets this year. Bill, can you get 50 copies of CQ VHF? I'm asking Nuts and Volts for a July issue. Does anyone have a contact for QST? Gene, are you still on the list?

Can you think of anything else to add?

--
Onwards and Upwards,
Paul

5109. Attending GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-26 12:54:37 UTC
From: L. Paul Verhage
Topic: 5109 Message: 5109

Please let me know if your group is planning to attend GPSL. Also, let me know how many people you expect and how many tanks of helium you will need.

For initial planning purposes, how much helium was used last year?

Thanks
--
Onwards and Upwards,
Paul

5110. Re: [GPSL] Attending GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-27 06:53:23 UTC
From: wb8elk@aol.com
Topic: 5109 Message: 5110

Hi Paul,

There will probably be 2 or 3 attending from my group in Huntsville and
I'll need 1 tank of helium.

- Bill WB8ELK

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CreditReport.com.
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editreport.com%3Fsrc%3Daolemail%26kwd%3Dmlftrtextlin
k)

5111. Re: [GPSL] Attending GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-27 13:03:08 UTC
From: L. Paul Verhage
Topic: 5109 Message: 5111

Bill, can you get with CQ VHF and see if they'll send 50 copies of their magazine to my address by early July for our packets? Also, can they provide a door prize of a one year's subscription?

Thanks,
Paul
6114 SW 27t #3, Topeka, KS, 66614

On Fri, Mar 27, 2009 at 1:53 AM, <wb8elk@...> wrote:

> Hi Paul,
>
> There will probably be 2 or 3 attending from my group in Huntsville and
> I'll need 1 tank of helium.
>
> - Bill WB8ELK
>
>
>
>
> ------------------------------
> *Free Credit Report and Score Tracking! Get it Now for $0 at
> CreditReport.com<http://pr.atwola.com/promoclk/100126575x1220474599x1201401934/aol?redir
=http:%2F%2Fwww.creditreport.com%3Fsrc%3Daolemail%26kwd%3Dmlftrtextlink>
> .*
>
>
>
>

--
Onwards and Upwards,
Paul

5112. Launch Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-27 16:40:47 UTC
From: Jeff Dailey
Topic: 5102 Message: 5112

There is a launch Saturday 3-28-2009.

Flight Information
Flight: CCLI27
Flight Number: 162
Origination: College of Chareston
Flight Locaction: Chareston SC
Flight Time: 10:00AM
APRS: KB9ZNZ-11

Jeffrey F. Dailey
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Research Engineer
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Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

5113. NearSys Catalog

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-29 03:55:52 UTC
From: L. Paul Verhage
Topic: 5113 Message: 5113

I'm starting a business selling printed circuit board kits. Check out nearsys.com and click catalog. It's just a beginning and I'd like to get input from the ARHAB community.

--
Onwards and Upwards,
Paul

5114. UAH Balloonsat Streaming video URL change for Sunday morning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-29 06:24:21 UTC
From: wb8elk@aol.com
Topic: 5114 Message: 5114

The BATC has put my video stream for this Sunday morning's UAH BalloonSat flight onto their LIVE EVENTS link so please note it will NOT be on my WB8ELK Members Streams as previously reported.

http://www.batc.tv (http://www.batc.tv)

Then click on LIVE EVENTS on the left and select the Balloon Launch stream to view

We are meeting at the NSSTC building at 9:00 am CDT with liftoff between 30 minutes to 1 hour after that for the first balloon and the second balloon about 30 minutes later.

Streaming video will probably start around 9:15 am CDT (1415 UTC).

These flights may only go to 35,000 feet or so due to the flight profile they are testing and also to keep the landing in a good region near Henagar, AL....if the cutdown does not work then the landing zone is Dalton GA.

- Bill WB8ELK

KG4WSV-11 and KG4WSV-12 on 144.39

Uncertain if there will be room for the 144.34 multimode tracker at this time.

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(http://pr.atwola.com/promoclk/100126575x1220439616x1201372437/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5115. Re: [Balloon_Sked] UAH Balloonsat Streaming video URL change for Sunday morning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-29 15:17:12 UTC
From: Joe
Topic: 5114 Message: 5115

Hi Guy,

I'm a watching, cool video, but for some reason the chat room isn't
woerking is it for everyone else?

Joe

wb8elk@... wrote:

> The BATC has put my video stream for this Sunday morning's UAH
> BalloonSat flight onto their LIVE EVENTS link so please note it will
> NOT be on my WB8ELK Members Streams as previously reported.
>
> http://www.batc.tv
>
> Then click on LIVE EVENTS on the left and select the Balloon Launch
> stream to view
>
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> second balloon about 30 minutes later.
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> profile they are testing and also to keep the landing in a good region
> near Henagar, AL....if the cutdown does not work then the landing zone
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> - Bill WB8ELK
>
> KG4WSV-11 and KG4WSV-12 on 144.39
>
> Uncertain if there will be room for the 144.34 multimode tracker at
> this time.
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> ---
> A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
> <http://pr.atwola.com/promoclk/100126575x1220439616x1201372437/aol?redir=http:%2F%2Fwww.
freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3Dfebemailfoote
rNO62>
>
>

>

5116. [Fwd: [Mw] 2.4 GHz Earth-Venus-Earth]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 00:16:22 UTC
From: Mike Manes
Topic: 5116 Message: 5116

Some pretty impressing hamming there!
But they'll have to lose some fat off that 6KW 2.4 GHz PA before it
can fly exempt :=P.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [Mw] 2.4 GHz Earth-Venus-Earth
Date: Sat, 28 Mar 2009 23:05:08 +0000 (GMT)
From: Trevor . <m5aka@yahoo.co.uk>
To: microwave@...

The reception of Amateur Radio signals bounced off the planet Venus is an
impressive achievement details of which can be seen at

http://www.southgatearc.org/news/march2009/eve.htm

It was done using the oldest digital mode CW coupled with modern SDR techniques.

A video showing Karl Meinzer DJ4ZC, Freddy ON6UG and the impressive 6 kW 2.4
GHz amplifier used to achieve Earth-Venus-Earth (EVE) can be seen at

http://tinyurl.com/EVE13cmAmp

The 2.4 GHz amplifier will be used by Radio Amateurs to sent signals to
control the P5-A Amateur Radio Mars spacecraft. On its journey to Mars it will
initially swing by Venus. The downlink will be on 10 GHz.

GO-Mars with AMSAT-DL's P5A Mission
http://www.ticket-to-mars.org/

A video of the Amateur Radio Mars Orbiter P5-A presentation given at the 2008
AMSAT-UK International Space Colloquium by Achim Vollhardt DH2VA can be seen via

http://tinyurl.com/P5Apresentation

English press release at http://tinyurl.com/EVEPressRelease

Picture of the team at http://tinyurl.com/EVEBochumTeam
Showing from left to right
Hermann Hagn (DK8CI), Karl Meinzer (DJ4ZC), James Miller (G3RUH), Achim
Vollhardt (DH2VA), Max Münich (DJ1CR), Freddy de Guchteneire (ON6UG), Wolfgang
Büscher (DL4YHF), Michael Lengrüsser (DD5ER), Hartmut Päsler (DL1YDD)

AMSAT-DL President Peter Guelzow DB2OS and other members of the AMSAT-DL team
regularly attend the Colloquium. The 2009 AMSAT-UK Colloquium will be held at
the University of Manchester, England from Friday July 24th to Sunday 26th
July. Further details at

http://www.uk.amsat.org/colloquium

AMSAT-UK publish a quarterly newsletter OSCAR News, you can join at
https://secure.amsat.org.uk/

73 Trevor M5AKA
Daily Amateur Radio RSS News: http://www.southgatearc.org/
Get Daily Amateur Radio News by Email: http://tinyurl.com/ARemailnews
----

_____
Microwave mailing list
microwave@...
http://www.valinet.com/mailman/listinfo/microwave

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5117. All States and Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 02:49:28 UTC
From: L. Paul Verhage
Topic: 5117 Message: 5117

Does anyone have new states they've launched from? I'd like to update my website with that information.

Also, I plan to launch in Lincoln next Saturday with NSTAR. My trackers will be KD4STH-11 and KD4STH. I'll transmit on 144.36 and 144.39. The balloon is a 1200 gram Kaymont.

The XBS group out of KU has expressed an interest on launching the following Sunday. If so, I'll be their backup tracker as KD4STH at 144.39.

Paul

--
Onwards and Upwards,
Paul

5118. Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 05:09:58 UTC
From: Mike Manes
Topic: 5118 Message: 5118

Hi Pete,

We've done flight prep in the dark before sunrise, and one needs local floodlighting and flashlights for close work, e.g. tying knots. And a night recovery would make for more hazardous back-roads travel for the T&R teams an crummy descent and landing fotos. If you do use a conventional Xe arc strobe light, be sure to corona-proof it to 100K' - Norm's strobes used a baro switch to kill 'em above 60K' - the highest that the FAA cares about. I'm intrigued by the prospect of using the newer high power white LEDs in this service; this would eliminate the corona issue as well as reducing battery drain.

73 de Mike W5VSI

pete sias wrote:
> Wondering, without doing any searching of the regulations, if there is a reason(s) for not doing night balloon launches?
>
> I am referring to the under 6 lb rule / guidelines we all have used.
>
> With the college group I work with, doing projects at night seems to fit better into their schedules. We are thinking of releasing a balloon payload this Friday evening. The only help we can expect is a strobe lite attached to the payload to aid on the ground recovery.
>
> Thoughts?
>
> Pete
>
>
>
>
>
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>
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> ------------------------------------
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> Yahoo! Groups Links
>
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5119. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 11:53:32 UTC
From: wb8elk@aol.com
Topic: 5118 Message: 5119

Hi Pete,

You might want to try illuminating the whole balloon envelope with a high-bright LED in the nozzle pointing up...would be interesting to see how that works, could actually have it do multi-colors and send a CW message visually...I've been meaning to do that in the very near future.

- Bill WB8ELK

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1220439616x1201372437/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5120. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 13:18:59 UTC
From: BASE
Topic: 5118 Message: 5120
Attachments: 1 described; binary payloads are missing from this source WARC

Dear Pete,

We've flown a couple of times with pre-dawn flights. Launch in darkness, recovery in early morning daylight.

The Lightman Xenon strobes operated throughout the flights without any problems. We had one strobe mounted in the spreader hoop of the parachute that pointed up toward the balloon and a second strobe aimed downward from a styrofoam block. The attached picture was from our last night launch that included four 1 W red LEDs on the bottom of the lowest pod. The picture shows the Moon on the right and captured both strobes on.

One problem that we encountered on both flights was GPS units freezing. Both flights had two Garmin 18 units and each flight had one unit drop out until fairly late in the descent. I'd encourage insulating the GPS .

Howard

--- On Mon, 3/30/09, wb8elk@aol.com <wb8elk@...> wrote:
From: wb8elk@... <wb8elk@...>
Subject: Re: [GPSL] Re: [KNSP] night launches
To: GPSL@yahoogroups.com
Date: Monday, March 30, 2009, 7:53 AM

Hi Pete,

  You might want to try illuminating the whole balloon envelope with a high-bright LED in the nozzle pointing up...would be interesting to see how that works, could actually have it do multi-colors and send a CW message visually...I' ve been meaning to do that in the very near future.

- Bill WB8ELK

A Good Credit Score is 700 or Above. See yours in just 2 easy steps!

5121. RE: [GPSL] Attending GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 13:30:49 UTC
From: Nick Hanks
Topic: 5109 Message: 5121

Hi Paul,

EOSS will have a group attending GPSL. Current count is 15 total with 11 attending the Friday tech session. There are a few folks who are in a "maybe" status. We'll need about a 1.5 T bottles of helium. I'm assuming there will be a few spares bottle in case of a balloon burst during fill.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, March 26, 2009 06:55
To: gpsl@yahoogroups.com
Subject: [GPSL] Attending GPSL

Please let me know if your group is planning to attend GPSL. Also, let me know how many people you expect and how many tanks of helium you will need.

For initial planning purposes, how much helium was used last year?

Thanks
--
Onwards and Upwards,
Paul

5122. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 14:31:35 UTC
From: Joe
Topic: 5118 Message: 5122
Attachments: 1 described; binary payloads are missing from this source WARC

We never had a GPS Freeze for dozens of flights, until we ran a strobe light,

We flew a regular high voltage uncredibly bright strobe on a flight and it messed up the GPS throughout the whole flight,

Position would lock, or spit out crazy readings like 1 minute later the balloon traveled 120 miles, or the best one was at one transmission the balloon was at 60 K feet, the next transmission it was 32,000 feet BELOW sea level!

Strobes must be kept a LONG way away from the gps.

Joe WB9SBD
Near Space Sciences

BASE wrote:

> Dear Pete,
>
> We've flown a couple of times with pre-dawn flights. Launch in
> darkness, recovery in early morning daylight.
>
> The Lightman Xenon strobes operated throughout the flights without any
> problems. We had one strobe mounted in the spreader hoop of the
> parachute that pointed up toward the balloon and a second strobe aimed
> downward from a styrofoam block. The attached picture was from our
> last night launch that included four 1 W red LEDs on the bottom of the
> lowest pod. The picture shows the Moon on the right and captured both
> strobes on.
>
> One problem that we encountered on both flights was GPS units
> freezing. Both flights had two Garmin 18 units and each flight had
> one unit drop out until fairly late in the descent. I'd encourage
> insulating the GPS .
>
> Howard
>
> --- On Mon, 3/30/09, wb8elk@... <wb8elk@...> wrote:
>
> From: wb8elk@... <wb8elk@...>
> Subject: Re: [GPSL] Re: [KNSP] night launches
> To: GPSL@yahoogroups.com
> Date: Monday, March 30, 2009, 7:53 AM
>

> Hi Pete,
>
> You might want to try illuminating the whole balloon envelope
> with a high-bright LED in the nozzle pointing up...would be
> interesting to see how that works, could actually have it do
> multi-colors and send a CW message visually...I' ve been meaning
> to do that in the very near future.
>
> - Bill WB8ELK
>
>
> ---
> A Good Credit Score is 700 or Above. See yours in just 2 easy
> steps!
> <http://pr.atwola.com/promoclk/100126575x1220439616x1201372437/aol?redir=http:%2F%2Fwww.
freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3Dfebemailfoote
rNO62>
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5123. Spanish students beat NASA

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 15:07:12 UTC
From: Harry M
Topic: 5123 Message: 5123

Spanish students beat NASA

http://blog.makezine.com/archive/2009/03/spanish_students_beat_nasa.html

5124. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 17:18:04 UTC
From: BASE
Topic: 5118 Message: 5124
Attachments: 1 described; binary payloads are missing from this source WARC

Although I appreciate Joe's comments that the GPS freezes could be strobe related. There is no evidence that the GPS freezes that I refer to on our flights were electrical. Our GPS units had no spurious readings throughout the flights. Our main flight computer tracks altitude readings every second with latitude and longitude data transmitted every 30 seconds. All readings were good except when the GPS was thermally cold.

The GPS simply stopped working when the ambient temperature reached -30 Celsius and returned to life after the ambient temperature rose to about -10 Celsius. Thank goodness for sunrise!

A second contraindicator of electrically induced problems is that on one flight the GPS closest to the strobes (about 10 feet away) performed throughout the flight while the one approximately 50 feet away stopped working during the coldest temperatures.

Howard

--- On Mon, 3/30/09, Joe <nss@...> wrote:
From: Joe <nss@...>
Subject: Re: [GPSL] Re: [KNSP] night launches
To: GPSL@yahoogroups.com
Date: Monday, March 30, 2009, 10:31 AM

We never had a GPS Freeze for dozens of flights, until we ran a strobe
light,

We flew a regular high voltage uncredibly bright strobe on a flight and
it messed up the GPS throughout the whole flight,

Position would lock, or spit out crazy readings like 1 minute later
the balloon traveled 120 miles, or the best one was at one
transmission the balloon was at 60 K feet, the next transmission it
was 32,000 feet BELOW sea level!

Strobes must be kept a LONG way away from the gps.

Joe WB9SBD

Near Space Sciences

BASE wrote:

Dear Pete,

We've flown a couple of times with pre-dawn flights. Launch in
darkness, recovery in early morning daylight.

The Lightman Xenon strobes operated throughout the flights without any problems. We had one strobe mounted in the spreader hoop of the parachute that pointed up toward the balloon and a second strobe aimed downward from a styrofoam block. The attached picture was from our last night launch that included four 1 W red LEDs on the bottom of the lowest pod. The picture shows the Moon on the right and captured both strobes on.

One problem that we encountered on both flights was GPS units freezing. Both flights had two Garmin 18 units and each flight had one unit drop out until fairly late in the descent. I'd encourage insulating the GPS .

Howard

--- On Mon, 3/30/09, wb8elk@...m <wb8elk@...>
wrote:

From:
wb8elk@... <wb8elk@...>

Subject: Re: [GPSL] Re: [KNSP] night launches

To: GPSL@yahoogroups.com

Date: Monday, March 30, 2009, 7:53 AM

Hi Pete,

  You might want to try illuminating the whole balloon envelope with a high-bright LED in the nozzle pointing up...would be interesting to see how that works, could actually have it do multi-colors and send a CW message visually...I' ve been meaning to do that in the very near future.

- Bill WB8ELK

A Good Credit Score is 700 or Above.
See yours in just 2 easy steps!

5125. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 21:07:15 UTC
From: Mike Manes
Topic: 5118 Message: 5125

The GPS may have been getting gigged by corona discharge, which is hugely broadband. Corona also generates ozone, a strong oxidant, which can corrode metal and eat up insulation by cutting polymer bonds. It's easy to detect in an altitude chamber in a dark room - just look for the blue glow emanating from metal exposed to air. It's also possible to plain, flat arc over across the surface of insulation, creating a carbon track. See Ralph's discourse on corona and Paschen Law.

Fortunately, both corona and arc-over can be prevented by a liberal coating of insulation (corona dope or heavy acrylic spray paint) which keeps air far enough away from high voltage gradients.

73 de Mike W5VSI

Joe wrote:
> We never had a GPS Freeze for dozens of flights, until we ran a strobe
> light,
>
> We flew a regular high voltage uncredibly bright strobe on a flight and
> it messed up the GPS throughout the whole flight,
>
> Position would lock, or spit out crazy readings like 1 minute later
> the balloon traveled 120 miles, or the best one was at one transmission
> the balloon was at 60 K feet, the next transmission it was 32,000 feet
> BELOW sea level!
>
> Strobes must be kept a LONG way away from the gps.
>
> Joe WB9SBD
> Near Space Sciences
>
> BASE wrote:
>> Dear Pete,
>>
>> We've flown a couple of times with pre-dawn flights. Launch in
>> darkness, recovery in early morning daylight.
>>
>> The Lightman Xenon strobes operated throughout the flights without any
>> problems. We had one strobe mounted in the spreader hoop of the
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>> lowest pod. The picture shows the Moon on the right and captured both
>> strobes on.
>>
>> One problem that we encountered on both flights was GPS units

>> freezing. Both flights had two Garmin 18 units and each flight had
>> one unit drop out until fairly late in the descent. I'd encourage
>> insulating the GPS .
>>
>> Howard
>>
>> --- On *Mon, 3/30/09, wb8elk@... /<wb8elk@...>/* wrote:
>>
>> From: wb8elk@... <wb8elk@...>
>> Subject: Re: [GPSL] Re: [KNSP] night launches
>> To: GPSL@yahoogroups.com
>> Date: Monday, March 30, 2009, 7:53 AM
>>
>> Hi Pete,
>>
>> You might want to try illuminating the whole balloon envelope
>> with a high-bright LED in the nozzle pointing up...would be
>> interesting to see how that works, could actually have it do
>> multi-colors and send a CW message visually...I' ve been meaning
>> to do that in the very near future.
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>> - Bill WB8ELK
>>
>>
>> ---
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.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3Dfebemailfoot
erNO62>*
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>> ---
>>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5126. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 21:25:04 UTC
From: Mike Manes
Topic: 5118 Message: 5126

Your Xe strobes may have been corona-free - as all that fly that high should be. Many aren't.
73 de Mike W5VSI

BASE wrote:
> Although I appreciate Joe's comments that the GPS freezes could be
> strobe related. There is no evidence that the GPS freezes that I refer
> to on our flights were electrical. Our GPS units had no spurious
> readings throughout the flights. Our main flight computer tracks
> altitude readings every second with latitude and longitude data
> transmitted every 30 seconds. All readings were good except when the
> GPS was thermally cold.
>
> The GPS simply stopped working when the ambient temperature reached -30
> Celsius and returned to life after the ambient temperature rose to about
> -10 Celsius. Thank goodness for sunrise!
>
> A second contraindicator of electrically induced problems is that on one
> flight the GPS closest to the strobes (about 10 feet away) performed
> throughout the flight while the one approximately 50 feet away stopped
> working during the coldest temperatures.
>
> Howard
>
>
>
>
>
> --- On *Mon, 3/30/09, Joe /<nss@...>/* wrote:
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Re: [KNSP] night launches
> To: GPSL@yahoogroups.com
> Date: Monday, March 30, 2009, 10:31 AM
>
> We never had a GPS Freeze for dozens of flights, until we ran a
> strobe light,
>
> We flew a regular high voltage uncredibly bright strobe on a flight
> and it messed up the GPS throughout the whole flight,
>
> Position would lock, or spit out crazy readings like 1 minute
> later the balloon traveled 120 miles, or the best one was at one
> transmission the balloon was at 60 K feet, the next transmission it
> was 32,000 feet BELOW sea level!

>
> Strobes must be kept a LONG way away from the gps.
>
> Joe WB9SBD
> Near Space Sciences
>
> BASE wrote:
>> Dear Pete,
>>
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>> darkness, recovery in early morning daylight.
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>> The Lightman Xenon strobes operated throughout the flights without
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>> the parachute that pointed up toward the balloon and a second
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>> picture was from our last night launch that included four 1 W red
>> LEDs on the bottom of the lowest pod. The picture shows the Moon
>> on the right and captured both strobes on.
>>
>> One problem that we encountered on both flights was GPS units
>> freezing. Both flights had two Garmin 18 units and each flight
>> had one unit drop out until fairly late in the descent. I'd
>> encourage insulating the GPS .
>>
>> Howard
>>
>> --- On *Mon, 3/30/09, wb8elk@... /<wb8elk@...>/* wrote:
>>
>> From: wb8elk@... <wb8elk@...>
>> Subject: Re: [GPSL] Re: [KNSP] night launches
>> To: GPSL@yahoogroups.com
>> Date: Monday, March 30, 2009, 7:53 AM
>>
>> Hi Pete,
>>
>> You might want to try illuminating the whole balloon
>> envelope with a high-bright LED in the nozzle pointing
>> up...would be interesting to see how that works, could
>> actually have it do multi-colors and send a CW message
>> visually...I' ve been meaning to do that in the very near future.
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>> - Bill WB8ELK
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>>
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.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3Dfebemailfoot

erNO62>*
>>
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>> ---
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5127. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 20:40:05 UTC
From: Mark Conner
Topic: 5118 Message: 5127

Neat photo! Any idea how high AGL the balloon was when the photo was taken?

73 de Mark N9XTN

> ---------- Forwarded message ----------
> From: BASE <basedepauw@...>
> Date: Mon, 30 Mar 2009 06:18:59 -0700 (PDT)
> Subject: Re: [GPSL] Re: [KNSP] night launches
> To: GPSL@yahoogroups.com
>
> Dear Pete,
>
> We've flown a couple of times with pre-dawn flights. Launch in
> darkness, recovery in early morning daylight.
>
> The Lightman Xenon strobes operated throughout the flights without any
> problems. We had one strobe mounted in the spreader hoop of the
> parachute that pointed up toward the balloon and a second strobe aimed
> downward from a styrofoam block. The attached picture was from our
> last night launch that included four 1 W red LEDs on the bottom of the
> lowest pod. The picture shows the Moon on the right and captured both
> strobes on.
>
> One problem that we encountered on both flights was GPS units
> freezing. Both flights had two Garmin 18 units and each flight had
> one unit drop out until fairly late in the descent. I'd encourage
> insulating the GPS .
>
> Howard
>

5128. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 22:23:09 UTC
From: Mike Manes
Topic: 5118 Message: 5128

For those on the GPSL reflector who missed the (detached?) foto, see:

http://www.depauw.edu/acad/physics/base/images/base30launchwithmoon.jpg

73 de Mike W5VSI

Mark Conner wrote:
> Neat photo! Any idea how high AGL the balloon was when the photo was taken?
>
> 73 de Mark N9XTN
>
>
>> ---------- Forwarded message ----------
>> From: BASE <basedepauw@...>
>> Date: Mon, 30 Mar 2009 06:18:59 -0700 (PDT)
>> Subject: Re: [GPSL] Re: [KNSP] night launches
>> To: GPSL@yahoogroups.com
>>
>> Dear Pete,
>>
>> We've flown a couple of times with pre-dawn flights. Launch in
>> darkness, recovery in early morning daylight.
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>> problems. We had one strobe mounted in the spreader hoop of the
>> parachute that pointed up toward the balloon and a second strobe aimed
>> downward from a styrofoam block. The attached picture was from our
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>> lowest pod. The picture shows the Moon on the right and captured both
>> strobes on.
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>> freezing. Both flights had two Garmin 18 units and each flight had
>> one unit drop out until fairly late in the descent. I'd encourage
>> insulating the GPS .
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>> Howard
>>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5129. Re: [GPSL] Re: [KNSP] night launches

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-30 21:35:18 UTC
From: BASE
Topic: 5118 Message: 5129

Mark,

The photo was taken by our campus photographer without any time stamp. However, based on comparative size of the balloon and the Moon, and a little trig (sloppy), the elevation was between 800 and 1000 feet.

Howard

--- On Mon, 3/30/09, Mark Conner <mconner1@...> wrote:
From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] Re: [KNSP] night launches
To: gpsl@yahoogroups.com
Date: Monday, March 30, 2009, 4:40 PM

Neat photo! Any idea how high AGL the balloon was when the photo was taken?

73 de Mark N9XTN

> ---------- Forwarded message ----------

> From: BASE <basedepauw@yahoo. com>

> Date: Mon, 30 Mar 2009 06:18:59 -0700 (PDT)

> Subject: Re: [GPSL] Re: [KNSP] night launches

> To: GPSL@yahoogroups. com

>

> Dear Pete,

>

> We've flown a couple of times with pre-dawn flights. Launch in

> darkness, recovery in early morning daylight.

>

> The Lightman Xenon strobes operated throughout the flights without any

> problems. We had one strobe mounted in the spreader hoop of the

> parachute that pointed up toward the balloon and a second strobe aimed

> downward from a styrofoam block. The attached picture was from our

> last night launch that included four 1 W red LEDs on the bottom of the

> lowest pod. The picture shows the Moon on the right and captured both

> strobes on.

>

> One problem that we encountered on both flights was GPS units

> freezing. Both flights had two Garmin 18 units and each flight had

> one unit drop out until fairly late in the descent. I'd encourage

> insulating the GPS .

>

> Howard

>

5130. SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-31 04:00:09 UTC
From: Mark Conner
Topic: 5130 Message: 5130

See http://spaceweather.com/submissions/large_image_popup.php?image_name=Brian-Whittaker-www-BrianWhittaker-com-Redoubt-Ash_1238432595.jpg for an aircraft example.

The recent eruptions of Mt Redoubt have produced some SO2 clouds that have drifted over the northcentral and northeastern US over the past week or so. I would have to review some of the satellite detections to see if it's possible that flights last weekend would have been able to see something. It's also possible that a flight this coming weekend might see something. For those who might be flying in the coming weeks, it would be worth checking any imagery closely for such evidence. Some suspected SO2 layers were observed in the skies over Wisconsin over the past weekend.

73 de Mark N9XTN

5131. Re: [GPSL] SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-31 04:15:16 UTC
From: wb8elk@aol.com
Topic: 5130 Message: 5131

Hi Mark,

UAH here in Huntsville is sending up two payloads this weekend...I'll see if they capture anything of the effects of the volcanic dust...Also, I'll be streaming live video again for the next two balloons this Saturday starting around 9:30 am CDT.

www.batc.tv (http://www.batc.tv) Click on Live Events and select the balloon stream.

- Bill WB8ELK

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1220439616x1201372437/aol?redir=http:%2F%2Fwww.freecreditreport.com%2Fpm%2Fdefault.aspx%3Fsc%3D668072%26hmpgID%3D62%26bcd%3DfebemailfooterNO62)

5132. Re: [GPSL] SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-31 12:16:33 UTC
From: BASE
Topic: 5130 Message: 5132

Mark,

The HALO II flights are also scheduled for this Saturday. If all goes well, there will be fifteen balloons flying simultaneously from Minnesota and Iowa east to New York. I'll pass the word to those that might be flying cameras or other detection equipment.

Howard

--- On Tue, 3/31/09, Mark Conner <mconner1@...> wrote:
From: Mark Conner <mconner1@gmail.com>
Subject: [GPSL] SO2 layers visible in recent balloon photos?
To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com>
Date: Tuesday, March 31, 2009, 12:00 AM

See http://spaceweather .com/submissions /large_image_ popup.php? image_name=
Brian-Whittaker- www-BrianWhittak er-com-Redoubt- Ash_1238432595.

jpg for an aircraft example.

The recent eruptions of Mt Redoubt have produced some SO2 clouds that

have drifted over the northcentral and northeastern US over the past

week or so. I would have to review some of the satellite detections

to see if it's possible that flights last weekend would have been able

to see something. It's also possible that a flight this coming

weekend might see something. For those who might be flying in the

coming weeks, it would be worth checking any imagery closely for such

evidence. Some suspected SO2 layers were observed in the skies over

Wisconsin over the past weekend.

73 de Mark N9XTN

5133. Re: [GPSL] SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-03-31 16:10:02 UTC
From: Mark Conner
Topic: 5130 Message: 5133

I hope to be flying with a camera this weekend too, but the weather in Lincoln is unlikely to be favorable (rain and 30-mph winds). Fingers crossed that the next system comes into Kansas slower than expected.

73 de Mark N9XTN

On Tue, Mar 31, 2009 at 07:16, BASE <basedepauw@...> wrote:
> Mark,
>
> The HALO II flights are also scheduled for this Saturday. If all goes well,
> there will be fifteen balloons flying simultaneously from Minnesota and Iowa
> east to New York. I'll pass the word to those that might be flying cameras
> or other detection equipment.
>
> Howard
>
> --- On Tue, 3/31/09, Mark Conner <mconner1@...> wrote:
>
> From: Mark Conner <mconner1@...>
> Subject: [GPSL] SO2 layers visible in recent balloon photos?
> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com>
> Date: Tuesday, March 31, 2009, 12:00 AM
>
> See http://spaceweather .com/submissions /large_image_ popup.php?
> image_name= Brian-Whittaker- www-BrianWhittak er-com-Redoubt-
> Ash_1238432595.
>
> jpg for an aircraft example.
>
> The recent eruptions of Mt Redoubt have produced some SO2 clouds that
> have drifted over the northcentral and northeastern US over the past
> week or so. I would have to review some of the satellite detections
> to see if it's possible that flights last weekend would have been able
> to see something. It's also possible that a flight this coming
> weekend might see something. For those who might be flying in the
> coming weeks, it would be worth checking any imagery closely for such
> evidence. Some suspected SO2 layers were observed in the skies over
> Wisconsin over the past weekend.
>
> 73 de Mark N9XTN
>
>
>
>

5134. Re: SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 12:11:31 UTC
From: K. Mark Caviezel
Topic: 5130 Message: 5134

And if Bill or anyone in the South is flying be sure to invite Bobby Jindal out to see the far ranging impacts of an erupting volcano.

best regards,

- Mark ng0x

5135. Re: [GPSL] Re: SO2 layers visible in recent balloon photos?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 13:06:01 UTC
From: L. Paul Verhage
Topic: 5130 Message: 5135

Wasn't that sad? If this is what our elected officials think about science,
we're doomed.

Paul

On Wed, Apr 1, 2009 at 7:11 AM, K. Mark Caviezel <kmcaviezel@...>wrote:

>
> And if Bill or anyone in the South is flying be sure to invite Bobby Jindal
> out to see the far ranging impacts of an erupting volcano.
>
> best regards,
>
> - Mark ng0x
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

5136. HALOII Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 13:26:07 UTC
From: Jeff Dailey
Topic: 5136 Message: 5136

On Saturday the Taylor HALOII flight we will be flying the crossband repeater, hope that we can get some contacts going.

We will also be flying HD video.

Uplink: 144.36
Downlink: 446.025
APRS: 144.39
Callsign: KB9ZNZ-1

Thanks

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5137. NSV Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 13:59:44 UTC
From: Keith Kaiser
Topic: 5137 Message: 5137

Bill

Near Space Ventures will launch a 1500g, Hydrogen filled High Altitude
Balloon on Sunday, April 5th, at aproxamatley 8:30a.m. Central
Daylight time
as part of an experiment sponsored by a high school student.

Launch Site:
Edgerton, KS @ 38.76184N, 095.00184W

Onboard APRS on 144.390Mhz,

Call Sign: WØNSV-11

You can follow the balloons location, altitude and speed from the
Internet by clicking on; http://aprs.fi/?call=w0nsv-11 after launch on
the day of the flight.

Simplex Repeater: 147.555Mhz/100PL --> The tone is critical to keep the
repeater out of APRS

Current flight prediction at; http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl

73's
Keith Kaiser
wa0tjt@...

5138. Passive SO2 detector

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 14:20:14 UTC
From: BASE
Topic: 5130 Message: 5138

Dear friends,

We're also considering flying a passive SO2 detector system using potassium permanganate based on the information from this link:

http://www.freepatentsonline.com/4277368.html

Other substances may trigger the color change, but it seems to be worth a try. If you have access to a chemistry department, it shouldn't be too hard to make a detector to attach to any box in your flight string.

If several of us flying this weekend (I think that there are about 18 flights on Ralph's list) could add this detector and not all of us see a reaction, then we might have additional evidence of the SO2 cloud.

Howard

5139. Re: [GPSL] Passive SO2 detector

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 15:13:36 UTC
From: James Hannon
Topic: 5130 Message: 5139

Sounds like something interesting to experiment with. You should not really need a chemistry dept to make this sensor. Potassium permanganate is used in treating iron filters for water treatment and can often be found in stores selling water filtering supplies. I bought a bottle from my local Sears store. If you don't already have the silica gell you can probably get it from a craft store. It is used in making dried flowers. Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "BASE" <basedepauw@...>
Sent 4/1/2009 9:20:14 AM
To: GPSL@yahoogroups.com, "Ballooning Group" <ballooning@yahoogroups.com>
Subject: [GPSL] Passive SO2 detectorDear friends,
We're also considering flying a passive SO2 detector system using potassium permanganate based on the information from this link:
http://www.freepatentsonline.com/4277368.html
Other substances may trigger the color change, but it seems to be worth a try. If you have access to a chemistry department, it shouldn't be too hard to make a detector to attach to any box in your flight string.
If several of us flying this weekend (I think that there are about 18 flights on Ralph's list) could add this detector and not all of us see a reaction, then we might have additional evidence of the SO2 cloud.
Howard

5140. Re: [GPSL] Passive SO2 detector

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-01 15:37:09 UTC
From: Mark Conner
Topic: 5130 Message: 5140

I was able to get potassium permanaganate years ago at a drug store - it's a disinfectant/anti-fungal. It will stain fabric and skin, so use some caution when handling. Not terribly expensive (probably $10-15 in 1lb quantities).

A pool supply store is another location where you might be able to get some, as the iron filters mentioned below are also used for pools.

73 de Mark N9XTN

On Wed, Apr 1, 2009 at 10:13, James Hannon <jmhannon@...> wrote:

> Sounds like something interesting to experiment with. You should not really need a chemistry dept to make this sensor. Potassium permanganate is used in treating iron filters for water treatment and can often be found in stores selling water filtering supplies. I bought a bottle from my local Sears store. If you don't already have the silica gell you can probably get it from a craft store. It is used in making dried flowers.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "BASE" <basedepauw@...>
> Sent 4/1/2009 9:20:14 AM
> To: GPSL@yahoogroups.com, "Ballooning Group" <ballooning@yahoogroups.com>
> Subject: [GPSL] Passive SO2 detector
>
> Dear friends,
>
> We're also considering flying a passive SO2 detector system using potassium permanganate based on the information from this link:
>
> http://www.freepatentsonline.com/4277368.html
>
> Other substances may trigger the color change, but it seems to be worth a try. If you have access to a chemistry department, it shouldn't be too hard to make a detector to attach to any box in your flight string.
>
> If several of us flying this weekend (I think that there are about 18 flights on Ralph's list) could add this detector and not all of us see a reaction, then we might have additional evidence of the SO2 cloud.

>
> Howard
>
>
>
>
>
>

5141. How much Helium do I need?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-03 02:02:09 UTC
From: rkrasowski
Topic: 5141 Message: 5141

Just a simple question. How much helium do I need to get positive 7-8 pounds for 1500gm balloon?? which tank to rent?

Will try to launch 4th of April at 10-11AM EST from WIlkesboro, NC. Beacon will be at 144.430MHz, call sign KB2PNM-7
Robert
KB2PNM

5142. Re: [GPSL] How much Helium do I need?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-03 02:19:21 UTC
From: Mark Conner
Topic: 5141 Message: 5142

The LiftWin program by Hank N1LTV is what most of us use for this purpose:
http://www.geocities.com/n1ltv/newliftwin.htm

Most likely you'll want a T cylinder and won't use all of it. You may
need all of, or more than, the cubic footage in a K cylinder, but use
LiftWin to see how close you are.

73 de Mark N9XTN

On Thu, Apr 2, 2009 at 21:02, rkrasowski <rkrasowski@yahoo.com> wrote:
> Just a simple question. How much helium do I need to get positive 7-8 pounds for 1500gm balloon?? which tank to rent?
>
> Will try to launch 4th of April at 10-11AM EST from WIlkesboro, NC. Beacon will be at 144.430MHz, call sign KB2PNM-7
> Robert
> KB2PNM
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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5143. Enviromental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-03 14:45:43 UTC
From: L. Paul Verhage
Topic: 5143 Message: 5143
Attachments: 3 described; binary payloads are missing from this source WARC

Attached are the picture I've taken of the latest environmental test chamber. Inside is a bank of UV LEDs, a piece of radioactive china, and a resting platform for the experiment. The tank is stainless steel and packed on the outside with dry ice. I need to find some vacuum grease, I can only pump the chmaber down to 29 inch of Hg (as oppsoed to 30 inches for a perfect vacuum).

The chamber is packed with dry ice and chilling right now. As soon as my students come back from break, we'll load two flight computers inside and pump it down. I'm getting some video and pictures of the process.

If you hear a loud boom in the next 30 minutes, the tank ruptured.

Onwards and Upwards
Paul

5144. BASE 35 details

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-03 20:13:36 UTC
From: BASE
Topic: 5144 Message: 5144

As previously noted, DePauw is participating in HALO 2 with our BASE 35 mission.

Launch - 4 April 2009 1500 UTC (11 AM Eastern Daylight Time)
Location - Julian Science Center Roof, DePauw University
Balloon - 1200 gram Kaymont
Ascent Rate - 1200 - 1500 feet/min
Burst Altitude - 85000 feet
Landing - Greensburg, Indiana
Radios - 2 900 MHz spread spectrum
2 APRS at 144.39 MHz
KB9ZNZ-2 at even minutes + 15 seconds
W9YJ-11 at even minutes + 90 seconds
Experiments - Earth Sensor qualifier for Optical Energy Technologies
Optical Carbon Dioxide and Ozone Detectors
Sulfur Dioxide Detector (Silicon with Potassium Permaganate)
Tilt Axis Sensor
3 Digital Video Cameras
Small Air Filled Balloons
HALO 2 pod

Howard

5145. On line balloon track not working??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 00:57:04 UTC
From: rkrasowski
Topic: 5145 Message: 5145

Hi
this is frustrating, for 3 months I have been working on my balloon checking prediction for the fly path, I am ready to launch tomorrow and for the firs time on line balloon tracking from www.nearspaceventures.com is not working, asking for autorization?? , password ??
Where to get it form?? Anybody can help??
Robert KB2PNM

5146. Re: [GPSL] On line balloon track not working??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 02:01:30 UTC
From: Harry M
Topic: 5145 Message: 5146

Robert,

Go get the program BalTrack and you won't have to rely on the web!
http://www.eoss.org/wbaltrak/index.html

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

this is frustrating, for 3 months I have been working on my balloon checking prediction for the fly path, I am ready to launch tomorrow and for the firs time on line balloon tracking from www.nearspaceventures.com is not working, asking for autorization?? , password ?? Where to get it form?? Anybody can help??

5147. Re: [GPSL] On line balloon track not working??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 02:05:44 UTC
From: Roger Hammond
Topic: 5145 Message: 5147

The learning curve might be a little steep for a first "night before launch"
prediction. Either that or I was just a slow learner.
8)

Rog KC0MWM

On Fri, Apr 3, 2009 at 9:01 PM, Harry M <hhm_74115@...> wrote:

> Robert,
>
> Go get the program BalTrack and you won't have to rely on the web!
> http://www.eoss.org/wbaltrak/index.html
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>
> this is frustrating, for 3 months I have been working on my balloon
> checking
> prediction for the fly path, I am ready to launch tomorrow and for the firs
> time on line balloon tracking from www.nearspaceventures.com is not
> working,
> asking for autorization?? , password ?? Where to get it form?? Anybody can
> help??
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

5148. viewing balloons in Google Earth

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 16:26:39 UTC
From: Mark Conner
Topic: 5148 Message: 5148

Having several balloons airborne and watching it in Google Earth is pretty cool. Go to aprs.fi and start Google Earth from there, then move your eye point to about 50,000 ft and look horizontally. Once the data loads, you should see tracks rising from the ground.

73 de Mark N9XTN

5149. Google Earth Image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 16:32:14 UTC
From: Mark Conner
Topic: 5149 Message: 5149
Attachments: 1 described; binary payloads are missing from this source WARC

This is what it looks like currently, with the view point northwest of Madison WI and 100 miles up, looking southeast.

73 de Mark N9XTN

5150. Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 20:12:23 UTC
From: Ralph Wallio, W0RPK
Topic: 5150 Message: 5150

Someone on our GPSL net with SSTV experience may want to respond to this request. -- Ralph W0RPK

Date: Fri, 3 Apr 2009 15:12:27 -0500
From: Nathaniel Bonton <nathaniel.bonton@...>
Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather Balloon.
To: amsat-bb@...
Message-ID: <a4c1a6950904031312s2a97b599ude86318e829b4c34@...>
Content-Type: text/plain; charset=ISO-8859-1

Hello AMSAT Community,

I am Nathaniel Bonton, the Sensor's subsystem leader for the Balloon III project. This is a project of the C.A.P.E (Cajun Advanced Picosatellite Experiment) organization located at the University of Louisiana at Lafayette. The Balloon III project is designing, programming and launching of a weather balloon to be released from the Lake Charles, La weather station. There are many different implementations such as: temperature sensors, slow scan TV, etc.

This brings me to the purpose of this post. I would like to ask anyone if they know of any one that was able to implement a slow scan TV on a weather balloon and if it is even feasible.

Thank you for your help and input.

5151. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 20:14:22 UTC
From: Ed Moore
Topic: 5150 Message: 5151

10mW 434Mhz - http://www.pegasushabproject.org.uk/wiki/doku.php by
James Coxon.

Hey, it was only 10mW :P

Ed
--
Ed Moore
Churchill College, Cambridge, CB3 0DS
eam52@...

Cambridge University Spaceflight
http://www.cuspaceflight.co.uk

On 4 Apr 2009, at 21:12, Ralph Wallio, W0RPK wrote:

> Someone on our GPSL net with SSTV experience may want to respond to
> this request. -- Ralph W0RPK
>
> Date: Fri, 3 Apr 2009 15:12:27 -0500
> From: Nathaniel Bonton <nathaniel.bonton@...>
> Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather
> Balloon.
> To: amsat-bb@...
> Message-ID:
> <a4c1a6950904031312s2a97b599ude86318e829b4c34@...>
> Content-Type: text/plain; charset=ISO-8859-1
>
> Hello AMSAT Community,
>
> I am Nathaniel Bonton, the Sensor's subsystem leader for the Balloon
> III
> project. This is a project of the C.A.P.E (Cajun Advanced
> Picosatellite
> Experiment) organization located at the University of Louisiana at
> Lafayette. The Balloon III project is designing, programming and
> launching
> of a weather balloon to be released from the Lake Charles, La weather
> station. There are many different implementations such as: temperature
> sensors, slow scan TV, etc.
>
> This brings me to the purpose of this post. I would like to ask
> anyone if
> they know of any one that was able to implement a slow scan TV on a
> weather
> balloon and if it is even feasible.

>
> Thank you for your help and input.
>
> <!-- #ygrp-mkp{ border: 1px solid #d8d8d8; font-family: Arial;
> margin: 14px 0px; padding: 0px 14px; } #ygrp-mkp hr{ border: 1px
> solid #d8d8d8; } #ygrp-mkp #hd{ color: #628c2a; font-size: 85%; font-
> weight: bold; line-height: 122%; margin: 10px 0px; } #ygrp-mkp
> #ads{ margin-bottom: 10px; } #ygrp-mkp .ad{ padding: 0 0; } #ygrp-
> mkp .ad a{ color: #0000ff; text-decoration: none; } --> <!-- #ygrp-
> sponsor #ygrp-lc{ font-family: Arial; } #ygrp-sponsor #ygrp-lc
> #hd{ margin: 10px 0px; font-weight: bold; font-size: 78%; line-
> height: 122%; } #ygrp-sponsor #ygrp-lc .ad{ margin-bottom: 10px;
> padding: 0 0; } --> <!-- #ygrp-mlmsg {font-size:13px; font-family:
> arial,helvetica,clean,sans-serif;*font-size:small;*font:x-small;}
> #ygrp-mlmsg table {font-size:inherit;font:100%;} #ygrp-mlmsg select,
> input, textarea {font:99% arial,helvetica,clean,sans-serif;} #ygrp-
> mlmsg pre, code {font:115% monospace;*font-size:100%;} #ygrp-mlmsg *
> {line-height:1.22em;} #ygrp-text{ font-family: Georgia; } #ygrp-
> text p{ margin: 0 0 1em 0; } dd.last p a { font-family: Verdana;
> font-weight: bold; } #ygrp-vitnav{ padding-top: 10px; font-family:
> Verdana; font-size: 77%; margin: 0; } #ygrp-vitnav a{ padding: 0
> 1px; } #ygrp-mlmsg #logo{ padding-bottom: 10px; } #ygrp-reco
> { margin-bottom: 20px; padding: 0px; } #ygrp-reco #reco-head { font-
> weight: bold; color: #ff7900; } #reco-category{ font-size: 77%; }
> #reco-desc{ font-size: 77%; } #ygrp-vital a{ text-decoration:
> none; } #ygrp-vital a:hover{ text-decoration: underline; } #ygrp-
> sponsor #ov ul{ padding: 0 0 0 8px; margin: 0; } #ygrp-sponsor #ov
> li{ list-style-type: square; padding: 6px 0; font-size: 77%; } #ygrp-
> sponsor #ov li a{ text-decoration: none; font-size: 130%; } #ygrp-
> sponsor #nc{ background-color: #eee; margin-bottom: 20px; padding: 0
> 8px; } #ygrp-sponsor .ad{ padding: 8px 0; } #ygrp-sponsor .ad
> #hd1{ font-family: Arial; font-weight: bold; color: #628c2a; font-
> size: 100%; line-height: 122%; } #ygrp-sponsor .ad a{ text-
> decoration: none; } #ygrp-sponsor .ad a:hover{ text-decoration:
> underline; } #ygrp-sponsor .ad p{ margin: 0; } o{font-size:
> 0; } .MsoNormal{ margin: 0 0 0 0; } #ygrp-text tt{ font-size:
> 120%; } blockquote{margin: 0 0 0 4px;} .replbq{margin:4} dd.last p
> span { margin-right: 10px; font-family: Verdana; font-weight:
> bold; } dd.last p span.yshortcuts { margin-right: 0; } div.photo-
> title a, div.photo-title a:active, div.photo-title a:hover,
> div.photo-title a:visited { text-decoration: none; } div.file-title
> a, div.file-title a:active, div.file-title a:hover, div.file-title
> a:visited { text-decoration: none; } #ygrp-msg p { clear: both;
> padding: 15px 0 3px 0; overflow: hidden; } #ygrp-msg p span { color:
> #1E66AE; font-weight: bold; } div#ygrp-mlmsg #ygrp-msg p a
> span.yshortcuts { font-family: Verdana; font-size: 10px; font-
> weight: normal; } #ygrp-msg p a { font-family: Verdana; font-size:
> 10px; } #ygrp-mlmsg a { color: #1E66AE; } div.attach-table div div a
> { text-decoration: none; } div.attach-table { width: 400px; } -->

5152. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 20:16:43 UTC
From: wb8elk@aol.com
Topic: 5150 Message: 5152

Hi Nathaniel,

I'm working on a SSTV implementation on a microcontroller- controlled balloon transmitter and have it running Martin 1 mode at the moment. You can also fly the Kenwood VH-1 if you can find one on eBay. I also believe that Scott N1VG of Argent Data and Opentracker has come some ways in implementing SSTV on a microcontroller that could be used for balloons.

I'll probably be testing my SSTV balloon transmitter possibly as early as next Saturday on the next UAH BalloonSat.

- Bill Brown WB8ELK
www.wb8elk.com (http://www.wb8elk.com)

**********Hurry! April 15th is almost here. File your Federal taxes FREE with TaxACT.
(http://pr.atwola.com/promoclk/100126575x1220239440x1201335902/aol?redir=http:%2F%2Fwww.taxact.com%2F08tax.asp%3Fsc%3D084102950001%26p%3D82)

5153. UAH and AAMU payloads launched and recovered - with extra bonus!!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 21:04:52 UTC
From: wb8elk@aol.com
Topic: 5153 Message: 5153

There were 2 flights today, but 3 payloads recovered (more on that later in this email) - the third UAH team wasn't ready so will fly next Saturday morning after 9:30 am CDT....streaming video of that launch as before.

Today's flights have been recovered at the following coordinates:

Balloon 1 (UAH) - cutdown - landed at: 34.5827 84.9013 (located in a large field just east of Resaca, GA

Balloon 2 (AAMU) - flight to peak altitude - landed at: 34d 34.24m 84d 52.42m (also in a large field) - no tree climbing this weekend.

Even though both flights had a large ascent difference, thanks to the cutdown of the slow ascent flight, both landed very close to each other.

As an interesting bonus - I landed a payload last May 2008 (30m HF RTTY experiment) about 2000 feet south of where Balloon 2 landed today. Eddie WD4JEM found it back in May but couldn't retrieve it from its perch 70 feet up in the tree and it has been there ever since. Today, Kenny K4KR and Shane N4XWC continued on to my payload's location after recovering the university payloads. They found and recovered my HF payload sitting on the ground in plain sight underneath the tree where it had landed 11 months ago.

Considering this is nearly 100 miles downrange, what are the odds?

73s de Bill WB8ELK

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(http://pr.atwola.com/promoclk/100126575x1220239440x1201335902/aol?redir=http:%2F%2Fwww.taxact.com%2F08tax.asp%3Fsc%3D084102950001%26p%3D82)

5154. [Fwd: [KNSP] SSOK results]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 22:05:33 UTC
From: Mike Manes
Topic: 5154 Message: 5154

-------- Original Message --------
Subject: [KNSP] SSOK results
Date: Sat, 4 Apr 2009 09:48:40 -0700 (PDT)
From: pete sias <petesias@...>
To: balloon <knsp@yahoogroups.com>

A synopsis of the KWU night flight.

This was the 4th flight of the physics and math club working towards personal best of altitude and gaining experience in all aspects of ballooning.

A night flight was chosen to allow for more participation by students and local residents. The turn out for launching on the football field was great, more than 25 interested people showed up after hearing about it on the local AM radio station. The largest student group ever with about 15 at the launch and 10 in the chase vehicle were involved.
They are on to something by doing a night / evening launch rather than trying for early Saturday mornings. There was no real competition for everyone's time like there can be on a weekend, thus more participation.
Another plus was the relaxed atmosphere for prepping and release. The longer it took the more the winds diminished....

Winds did make things interesting during filling and release with a student doing a running start and releasing the payload when directly below the balloon. The surface winds made it hard to get a good reading on how much positive lift they had during filling and it ended up at ~600 fpm ascent rate. The students had used 1000fpm for the projections which put it on the West side of Topeka KS, instead it landed Northeast of Topeka, ~7 miles North of Oskaloosa, KS.

Students attached triangle shaped LED lights (3) on the payload, non blinking, and no strobes were used.
They used a 1200 gram balloon from Kaymont which over 5 years old. It was stored in its original sack and kept boxed for those years. No problems as the burst altitude was 101 + thousand feet.

The payload was found in a field right side up and the lights definitely aided in locating it.

Payload weight was 2.5 lbs and used a Micro-Trak 300 aprs transmitter with 300mw out to a dipole. The chase van used a mag mount vertical antenna, FT817, KPC3 tnc, and aprs+point software for tracking.

73' Pete NØOY

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
Yahoo! Groups Links

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5155. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 22:45:37 UTC
From: Mike Manes
Topic: 5150 Message: 5155

Hi Nathaniel,

EOSS has relayed slow-scan images through our balloon-borne cross-band repeater, and they came thru fine. We've looked at doing a SSTV payload, and even acquired a Kenwood VC-H1 SSTV modem for that purpose, but haven't got around to completing the project. I think this is probably the easiest route to that goal, however. The VC-H1 has been out of production for quite some time, but you may be able to find one used on the internet as we did. Ours was not cheap, however.

The VC-H1 is a "modem" in that it has a camera and SSTV audio generator for a multitude of SSTV modes, and it also has an SSTV audio demod and small color LCD image display. It just needs a radio to talk to as well as some means to trigger a picture. Since the SSTV receive capability wouldn't be needed, the radio receive audio could be used to detect an uplink trigger command, such as a unique tone or DTMF code and effect a shutter button closure on the VC-H1. A microcontroller, e.g Basic Stamp or PICAXE could also be used to fire off a pix at predetermined intervals.

73 de Mike W5VSI
CTO EOSS

Ralph Wallio, W0RPK wrote:
> Someone on our GPSL net with SSTV experience may want to respond to this request. --
Ralph W0RPK
>
>
> Date: Fri, 3 Apr 2009 15:12:27 -0500
> From: Nathaniel Bonton <nathaniel.bonton@...>
> Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather
> Balloon.
> To: amsat-bb@...
> Message-ID:
> <a4c1a6950904031312s2a97b599ude86318e829b4c34@...>
> Content-Type: text/plain; charset=ISO-8859-1
>
> Hello AMSAT Community,
>
> I am Nathaniel Bonton, the Sensor's subsystem leader for the Balloon III
> project. This is a project of the C.A.P.E (Cajun Advanced Picosatellite
> Experiment) organization located at the University of Louisiana at
> Lafayette. The Balloon III project is designing, programming and launching
> of a weather balloon to be released from the Lake Charles, La weather
> station. There are many different implementations such as: temperature
> sensors, slow scan TV, etc.
>

> This brings me to the purpose of this post. I would like to ask anyone if
> they know of any one that was able to implement a slow scan TV on a weather
> balloon and if it is even feasible.
>
> Thank you for your help and input.
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5156. BASE 35 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 22:28:40 UTC
From: BASE
Topic: 5156 Message: 5156

Dear friends,

BASE 35 has been successfully completed. Launch 15:06 UTC (due to system wide hold for HALO 2 fligths). Burst altitude: 86,000 feet Landing at Heading of 103 degrees and range of 70 miles.

Landing was interesting. Parachute caught in top of 100 foot tall tree with payloads hanging vertically from several horizontal branches. The lowest pod was about 60 feet above ground level. Four attempt with the EZ Hang successfully sent 1/2 oz. lead weight between the three payload strings connecting the lowest (HALO2) and second lowest (our light sensors and cameras) pods. We had a brief delay after the second unsuccessful attempt when the fishing line broke and there was not enough line available for another attempt. This shortfall was corrected by a trip to Greensburg for more line and sinkers. The EZ hang cord broke through the payload cords after pulling the payloads down to about 35 feet off the ground. All payloads except the HALO 2 were recovered with the Wonder Pole with the homemade hook. Another snare by the Wonder Pole brought down the HALO 2 pod.

More details will follow at www.depauw.edu/acad/physics/base

Thanks for your support,
Howard

5157. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-04 22:45:07 UTC
From: Mark Conner
Topic: 5150 Message: 5157

NSTAR has flown SSTV on a few flights, using the Kenwood VC-H1. It's a lot of weight for no more than we do with it (make it transmit SSTV every 3 min) but the choices are somewhat limited. I made an adapter cable to go from the Kenwood plugs to the correct hookup for a Yaesu VX-1R. I got my VC-H1 as old dealer stock on the same day Columbia broke up over Texas - the guy who sold it to me told me it had happened and was the first I heard about it.

You will likely want to use another camera rather than the one that comes with it. After the first flight, we hooked ours to a camcorder with composite video out and got much better results.

We had very good reception at distances of at least 150 miles using a 600 mW transmitter on 2m and a Ringo Ranger or equivalent at the receive sites. Reception with regular mobile antennas in the chase vehicle is also very good. If your signal is good enough for AX.25 packet, it's plenty good enough for SSTV.

73 de Mark N9XTN

On Sat, Apr 4, 2009 at 15:12, Ralph Wallio, W0RPK <W0RPK@...> wrote:
> Someone on our GPSL net with SSTV experience may want to respond to this request. --
Ralph W0RPK
>
>
> Date: Fri, 3 Apr 2009 15:12:27 -0500
> From: Nathaniel Bonton <nathaniel.bonton@...>
> Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather
> Balloon.
> To: amsat-bb@...
> Message-ID:
> <a4c1a6950904031312s2a97b599ude86318e829b4c34@mail.gmail.com>
> Content-Type: text/plain; charset=ISO-8859-1
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> Hello AMSAT Community,
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> I am Nathaniel Bonton, the Sensor's subsystem leader for the Balloon III
> project. This is a project of the C.A.P.E (Cajun Advanced Picosatellite
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> Lafayette. The Balloon III project is designing, programming and launching
> of a weather balloon to be released from the Lake Charles, La weather
> station. There are many different implementations such as: temperature
> sensors, slow scan TV, etc.
>
> This brings me to the purpose of this post. I would like to ask anyone if
> they know of any one that was able to implement a slow scan TV on a weather

> balloon and if it is even feasible.
>
> Thank you for your help and input.

5158. Re: [GPSL] viewing balloons in Google Earth

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-05 02:43:47 UTC
From: L. Paul Verhage
Topic: 5148 Message: 5158

I wonder if we can record the images from GPSL 2009 and make a movie from it? It would be a nice thing to add to a CD of the conference we could make for everyone.

Paul

On Sat, Apr 4, 2009 at 11:26 AM, Mark Conner <mconner1@...> wrote:

> Having several balloons airborne and watching it in Google Earth is
> pretty cool. Go to aprs.fi and start Google Earth from there, then
> move your eye point to about 50,000 ft and look horizontally. Once
> the data loads, you should see tracks rising from the ground.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5159. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-05 02:55:40 UTC
From: L. Paul Verhage
Topic: 5150 Message: 5159

We've had some good results sending the VC-H1 on a balloon back in 1998 and 1999. Images were received 200 miles away with a 340 mW TX. We have a good shot of the balloon bursting at 114,600 feet. The VC-H1 was set for three minute intervals on Robot mode. The camera head was mounted to a servo that was commanded to rotate to one of three positions every three minutes.

Paul

On Sat, Apr 4, 2009 at 5:45 PM, Mark Conner <mconner1@...> wrote:

> NSTAR has flown SSTV on a few flights, using the Kenwood VC-H1. It's
> a lot of weight for no more than we do with it (make it transmit SSTV
> every 3 min) but the choices are somewhat limited. I made an adapter
> cable to go from the Kenwood plugs to the correct hookup for a Yaesu
> VX-1R. I got my VC-H1 as old dealer stock on the same day Columbia
> broke up over Texas - the guy who sold it to me told me it had
> happened and was the first I heard about it.
>
> You will likely want to use another camera rather than the one that
> comes with it. After the first flight, we hooked ours to a camcorder
> with composite video out and got much better results.
>
> We had very good reception at distances of at least 150 miles using a
> 600 mW transmitter on 2m and a Ringo Ranger or equivalent at the
> receive sites. Reception with regular mobile antennas in the chase
> vehicle is also very good. If your signal is good enough for AX.25
> packet, it's plenty good enough for SSTV.
>
> 73 de Mark N9XTN
>
> On Sat, Apr 4, 2009 at 15:12, Ralph Wallio, W0RPK <W0RPK@...>
> wrote:
> > Someone on our GPSL net with SSTV experience may want to respond to this
> request. -- Ralph W0RPK
> >
> >
> > Date: Fri, 3 Apr 2009 15:12:27 -0500
> > From: Nathaniel Bonton <nathaniel.bonton@...>
> > Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather
> > Balloon.
> > To: amsat-bb@...
> > Message-ID:
> > <a4c1a6950904031312s2a97b599ude86318e829b4c34@...>
> > Content-Type: text/plain; charset=ISO-8859-1
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> > Hello AMSAT Community,

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> > of a weather balloon to be released from the Lake Charles, La weather
> > station. There are many different implementations such as: temperature
> > sensors, slow scan TV, etc.
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> > This brings me to the purpose of this post. I would like to ask anyone if
> > they know of any one that was able to implement a slow scan TV on a
> weather
> > balloon and if it is even feasible.
> >
> > Thank you for your help and input.
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5160. Re: [GPSL] viewing balloons in Google Earth

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-05 03:14:48 UTC
From: Mark Conner
Topic: 5148 Message: 5160

Yes, you can.....

http://earth.google.com/userguide/v5/ug_movies.html

It would probably be best to record all the data and put it in KML
format, then set up a "tour" to view the data and capture the movie
that way. I think having the eye point move to follow the action
would be more interesting than a stationary view from some distance.
If I (ha ha) get a chance, I'll fiddle with this using some data from
GPSL 2002 or 2004, which I have somewhere for all the balloons that
flew.

The individual tracks would look something like the data I have posted at
http://nstar.org/index.php?option=com_content&view=article&id=87

73 de Mark N9XTN

On Sat, Apr 4, 2009 at 21:43, L. Paul Verhage <nearsys@...> wrote:
> I wonder if we can record the images from GPSL 2009 and make a movie from
> it? It would be a nice thing to add to a CD of the conference we could make
> for everyone.
>
> Paul
>
> On Sat, Apr 4, 2009 at 11:26 AM, Mark Conner <mconner1@gmail.com> wrote:
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>> Having several balloons airborne and watching it in Google Earth is
>> pretty cool. Go to aprs.fi and start Google Earth from there, then
>> move your eye point to about 50,000 ft and look horizontally. Once
>> the data loads, you should see tracks rising from the ground.
>>
>> 73 de Mark N9XTN
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>> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul

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5161. On-line Balloon Track at NSV website

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-05 19:41:48 UTC
From: Mark Conner
Topic: 5161 Message: 5161

I made contact with Keith at NSV. The NOAA site where they get the wind predictions is imposing some access restrictions. NSV is implementing this restriction by requiring a userid/password through the NSV website. There are some glitches but they're being worked. NSV hopes to have this sorted out early this week and will make an announcement when they are ready.

73 de Mark N9XTN

5162. Re: [GPSL] Implementation of Slow Scan TV on a Weather Balloon(?)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-05 20:25:15 UTC
From: Mark Conner
Topic: 5150 Message: 5162

Here's a SSTV photo album from our NSTAR 03-B flight:
http://picasaweb.google.com/mconner1/NSTAR03BSSTVAerialPhotos#

73 de Mark N9XTN

On Sat, Apr 4, 2009 at 17:45, Mark Conner <mconner1@...> wrote:
> NSTAR has flown SSTV on a few flights, using the Kenwood VC-H1. It's
> a lot of weight for no more than we do with it (make it transmit SSTV
> every 3 min) but the choices are somewhat limited. I made an adapter
> cable to go from the Kenwood plugs to the correct hookup for a Yaesu
> VX-1R. I got my VC-H1 as old dealer stock on the same day Columbia
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>
> You will likely want to use another camera rather than the one that
> comes with it. After the first flight, we hooked ours to a camcorder
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>
> We had very good reception at distances of at least 150 miles using a
> 600 mW transmitter on 2m and a Ringo Ranger or equivalent at the
> receive sites. Reception with regular mobile antennas in the chase
> vehicle is also very good. If your signal is good enough for AX.25
> packet, it's plenty good enough for SSTV.
>
> 73 de Mark N9XTN
>
> On Sat, Apr 4, 2009 at 15:12, Ralph Wallio, W0RPK <W0RPK@...> wrote:
>> Someone on our GPSL net with SSTV experience may want to respond to this request. --
Ralph W0RPK
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>>
>> Date: Fri, 3 Apr 2009 15:12:27 -0500
>> From: Nathaniel Bonton <nathaniel.bonton@...>
>> Subject: [amsat-bb] Implementation of Slow Scan TV on a Weather
>> Balloon.
>> To: amsat-bb@...
>> Message-ID:
>> <a4c1a6950904031312s2a97b599ude86318e829b4c34@...>
>> Content-Type: text/plain; charset=ISO-8859-1
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>> Hello AMSAT Community,
>>
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>> project. This is a project of the C.A.P.E (Cajun Advanced Picosatellite
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>> Lafayette. The Balloon III project is designing, programming and launching
>> of a weather balloon to be released from the Lake Charles, La weather
>> station. There are many different implementations such as: temperature
>> sensors, slow scan TV, etc.
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>> This brings me to the purpose of this post. I would like to ask anyone if
>> they know of any one that was able to implement a slow scan TV on a weather
>> balloon and if it is even feasible.
>>
>> Thank you for your help and input.
>

5163. Successful balloon launch in NC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 01:02:01 UTC
From: rkrasowski
Topic: 5163 Message: 5163

I launched balloon on Saturday 4Th of April from Yadkinville, NC. Balloon reached altitude of 97,700ft. Paylod consisted of camera, taking pictures horizontaly and vertically, temperature and humdity sensor for recording inside and outside of gondola, tracker on 2m.
More info, pictures and data : www.anchorsat.com/balloon.html
Robert KB2PNM
Thanks for Your help !!!

5164. Re: [GPSL] Successful balloon launch in NC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 01:08:16 UTC
From: Roger Hammond
Topic: 5163 Message: 5164

Robert,

Congratulations on a successful launch and recovery!
Looks like you had some fun and got some great pictures.

Roger KCØMWM

On Sun, Apr 5, 2009 at 8:02 PM, rkrasowski <rkrasowski@...> wrote:

> I launched balloon on Saturday 4Th of April from Yadkinville, NC. Balloon
> reached altitude of 97,700ft. Paylod consisted of camera, taking pictures
> horizontaly and vertically, temperature and humdity sensor for recording
> inside and outside of gondola, tracker on 2m.
> More info, pictures and data : www.anchorsat.com/balloon.html
> Robert KB2PNM
> Thanks for Your help !!!
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> Yahoo! Groups Links
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5165. Re: [GPSL] Successful balloon launch in NC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 01:28:11 UTC
From: Robert Krasowski
Topic: 5163 Message: 5165

What was great that I was able to see balloon on landing, We were in the great spot and that thing flew just above us and .....landed in small, less than 1 ac. pond - what a luck !!!
That was good and bed, gondola opened, there was a little water inside, USB stick got wet, but after drying it is working great and I did not loose any data. Good of this landing - it was soft - water. Funny I had to borrow small boat from owner of the pond to retrieve by balloon.
That was really something
Thanks for help
Robert
KB2PNM

--- On Sun, 4/5/09, Roger Hammond <kc0mwm@...> wrote:

From: Roger Hammond <kc0mwm@...>
Subject: Re: [GPSL] Successful balloon launch in NC
To: GPSL@yahoogroups.com
Date: Sunday, April 5, 2009, 9:08 PM

Robert,

Congratulations on a successful launch and recovery!
Looks like you had some fun and got some great pictures.

Roger KCØMWM

On Sun, Apr 5, 2009 at 8:02 PM, rkrasowski <rkrasowski@yahoo. com> wrote:

I launched balloon on Saturday 4Th of April from Yadkinville, NC. Balloon reached altitude of 97,700ft. Paylod consisted of camera, taking pictures horizontaly and vertically, temperature and humdity sensor for recording inside and outside of gondola, tracker on 2m.
More info, pictures and data : www.anchorsat. com/balloon. html
Robert KB2PNM
Thanks for Your help !!!

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Yahoo! Groups Links

5166. It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 15:37:54 UTC
From: L. Paul Verhage
Topic: 5166 Message: 5166

Kirk Welding will sell us T tanks of helium for $81.18 each and will have no problem deliverying 12 of them to my school. I need to set up an account with them first. At that time I'll also get the price of hydrogen.

So I guess I'm going to need to know how many heliums and how many hydrogens I need to order. I already have a couple of emails in this regard.

I have a volunteer from the local radio club who might be able to drive tanks around. But if it's a race day, he won't be able to help out. How many groups think they might be able to drive their tanks to the launch site if they can pick them up from my classroom the night before?

Thanks

--
Onwards and Upwards,
Paul

5167. Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 15:40:51 UTC
From: L. Paul Verhage
Topic: 5167 Message: 5167

By the way, the Hobo says the interior of the environmental chamber got to -80 *F. That's below it's minmum rating, so I don't know what that actually means. But dry ice has a temperature of -109 *F and it was in contact with the canister. Also, the temperature drop was smooth to -80 *F.

--
Onwards and Upwards,
Paul

5168. RE: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 18:36:13 UTC
From: Nick Hanks
Topic: 5166 Message: 5168

Hi Paul,

We'd like to modify our gas order please. We need two T-bottles of helium. If needed, we'll be able to transport them from your school to the launch site on the day of the flight and return them the same day.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, April 06, 2009 09:38
To: gpsl@yahoogroups.com
Subject: [GPSL] It's a Gas

Kirk Welding will sell us T tanks of helium for $81.18 each and will have no problem deliverying 12 of them to my school. I need to set up an account with them first. At that time I'll also get the price of hydrogen.

So I guess I'm going to need to know how many heliums and how many hydrogens I need to order. I already have a couple of emails in this regard.

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Thanks

--
Onwards and Upwards,
Paul

5169. GPSL 2009 regrets

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 20:57:23 UTC
From: BASE
Topic: 5169 Message: 5169

Dear friends,

BASE will not be attending the GPSL this year.

I've been invited to provide the lift platform(s?) for the Space Jam-3 event at Chanute Air Museum in Rantoul, IL on the same day. This is a Scout activity, and the organizers knew about my Scouter and high altitude ballooning background. I just couldn't say no to the boys. This link will lead you to a brief flyer about the event (www.spacejamboree.com).

The organizers want to fly assorted HAM equipment. They like to fly two ATV systems (one camera aimed to the horizon and one to the ground). They also like to fly VHF/UHF repeater(s). I know that I'll rely on many of you for guidance in these matters. [I promise to get my Technician license before the event.]

We have discussed the possibility of floating or sending up multiple balloons. I know I'll be in touch with some of you about the float options.

Sorry to miss the activities in Topeka, but I look forward to 2010 in ???.

Howard

5170. GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-06 23:37:38 UTC
From: wa8rc
Topic: 4595 Message: 5170

Hi Paul,

The Michigan boys will need 1 "T" Bottle of Helium. Will have 2 maybe 3 people attending. I should be able to pick up Helium the night before if needed.

Looking forward to this years event.

Near Space Environment Research Team
Ron Cathcart

Go Michigan State...

5171. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 01:12:29 UTC
From: Mike Manes
Topic: 5167 Message: 5171

Hi Paul,

You could use a thermocouple and a DVM on the 200.0 mV DC range to get a fair measure of temperature down that low. I have a some Type J (Iron-Constantin) wire that I could send you. Just put the measurement ends into your DVM jack and add the DVM ambient to the thermocouple temp derived from the table in the Omega Temperature catalog or NBS Circular #561. At -80 C, Type J will read -3.8 mV dc, and the slope is about 0.5 mV/C.

My potter / bride uses this technique with DPM and #14 Type K in her kiln up to over +1200 C.

73 de Mike W5VSI

L. Paul Verhage wrote:
> By the way, the Hobo says the interior of the environmental chamber got
> to -80 *F. That's below it's minmum rating, so I don't know what that
> actually means. But dry ice has a temperature of -109 *F and it was in
> contact with the canister. Also, the temperature drop was smooth to -80 *F.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5172. Balloons for sale

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 00:22:54 UTC
From: Zack Clobes
Topic: 5172 Message: 5172

I've been cleaning out my basement and I found some more balloons that I might as well pass on, as it's going to be another year or two before we get back into it.

I found two 1000g Kaysam balloons, that are still sealed in box, and three 300g Kaysams. One of the 300g's is still sealed, and the others two boxes have been taped back together. If I remember right, I inflated them with compressed air at one point for an experiment. I don't believe that any of them have been abused at any point (over inflation, wet, cold, heat, sunlight, etc). The 300g's have a manufacture date of 02/2005. The 1000g's don't say, but were probably purchased at the same time.

If anyone can put these to use, make me a fair offer plus $15 shipping. I'd rather sell them as a single batch to simplify shipping.

Zack Clobes, W0ZC
Project: Traveler

5173. [Fwd: [Ballooning] ANSR-48 Pictures from Stephen]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 01:51:02 UTC
From: Mike Manes
Topic: 5173 Message: 5173

-------- Original Message --------
Subject: [Ballooning] ANSR-48 Pictures from Stephen
Date: Mon, 6 Apr 2009 07:10:22 -0700 (PDT)
From: stephen thomas <iamgadget1@...>
Reply-To: Ballooning@yahoogroups.com
To: Jack Crabtree <jscra@...>, "Phil Brown \(N7IR\)"
<ni7r@...>, 'Kel' Helmick <J8MI8M2@...>, Joe Crawford
<straighthome@...>, James Spindler <compassing@...>, George
Helser <georgehelser@...>, Gary Miller <gmiller@...>,
Charles Laughlin <cdlaughlin@...>, Dick Dabney
<ddabney01@...>, Louis Wilcox <Louis@...>, Mark
Chalcraft <mchalcra@...>, Matt Pomeroy
<burrito.queso@...>, "Michael Gray \(KD7LMO\)" <mgray@...>,
Randy Peckenpaugh <rdpecken@...>, scott.picquet@..., Steve
Shott <steve817@...>, Brett Hackleman <brett@...>,
Bryson Hinton <bryson79@...>, "Jack Crabtree \(ERAU\)"
<crabtrej@...>
CC: Ballooning@yahoogroups.com
References: <2A250972F3414CD29ED5F61A1049CDD8@crabtrejPC>

Here are some pics and video at the launch site in Gila Bend

http://s203.photobucket.com/albums/aa100/gadgetrover/ANSR%2048%204-4-09/

Stephen Thomas
KE7TLS
iamgadget1@... <mailto:iamgadget1@...>
cell 602-680-8939

ack

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5174. RE: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 00:52:34 UTC
From: Doug Loughmiller
Topic: 5167 Message: 5174

Hi Paul,

ARBONET will need 2 bottles of helium. Do I need to send you some money before the meeting?

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, April 06, 2009 10:41 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Environmental Chamber Test

By the way, the Hobo says the interior of the environmental chamber got to -80 *F. That's below it's minmum rating, so I don't know what that actually means. But dry ice has a temperature of -109 *F and it was in contact with the canister. Also, the temperature drop was smooth to -80 *F.

--
Onwards and Upwards,
Paul

5175. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 12:59:41 UTC
From: L. Paul Verhage
Topic: 5167 Message: 5175

Hold off sending any money yet. I need to set up the account with Kirk Welding. Since I have class tonight, it won't happen until Wednesday at the earliest.

Paul

On Mon, Apr 6, 2009 at 7:52 PM, Doug Loughmiller <W5BL@...> wrote:

> Hi Paul,
>
>
>
> ARBONET will need 2 bottles of helium. Do I need to send you some money
> before the meeting?
>
>
>
> *73,*
>
>
>
> *Doug, W5BL*
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Monday, April 06, 2009 10:41 AM
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Environmental Chamber Test
>
>
>
> By the way, the Hobo says the interior of the environmental chamber got to
> -80 *F. That's below it's minmum rating, so I don't know what that actually
> means. But dry ice has a temperature of -109 *F and it was in contact with
> the canister. Also, the temperature drop was smooth to -80 *F.
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Onwards and Upwards,
Paul

5176. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 13:01:18 UTC
From: L. Paul Verhage
Topic: 5167 Message: 5176

I'll need to place the DVM in the chamber since I have no way to pass wires out of the closed canister.

Paul

On Mon, Apr 6, 2009 at 8:12 PM, Mike Manes <mrmanes@...> wrote:

> Hi Paul,
>
> You could use a thermocouple and a DVM on the 200.0 mV DC range to get a
> fair measure of temperature down that low. I have a some Type J (Iron-
> Constantin) wire that I could send you. Just put the measurement ends
> into your DVM jack and add the DVM ambient to the thermocouple temp
> derived from the table in the Omega Temperature catalog or NBS Circular
> #561. At -80 C, Type J will read -3.8 mV dc, and the slope is about 0.5
> mV/C.
>
> My potter / bride uses this technique with DPM and #14 Type K in her kiln
> up to over +1200 C.
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> > By the way, the Hobo says the interior of the environmental chamber got
> > to -80 *F. That's below it's minmum rating, so I don't know what that
> > actually means. But dry ice has a temperature of -109 *F and it was in
> > contact with the canister. Also, the temperature drop was smooth to -80
> *F.
> >
> > --
> > Onwards and Upwards,
> > Paul
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>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5177. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 15:54:47 UTC
From: Mike Manes
Topic: 5167 Message: 5177

I've used teflon insulated feedthru terminal posts pressed into slightly undersized holes from the outside. They appear to seal well under vacuum.

L. Paul Verhage wrote:
> I'll need to place the DVM in the chamber since I have no way to pass
> wires out of the closed canister.
>
> Paul
>
> On Mon, Apr 6, 2009 at 8:12 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Paul,
>
> You could use a thermocouple and a DVM on the 200.0 mV DC range to get a
> fair measure of temperature down that low. I have a some Type J (Iron-
> Constantin) wire that I could send you. Just put the measurement ends
> into your DVM jack and add the DVM ambient to the thermocouple temp
> derived from the table in the Omega Temperature catalog or NBS Circular
> #561. At -80 C, Type J will read -3.8 mV dc, and the slope is about
> 0.5 mV/C.
>
> My potter / bride uses this technique with DPM and #14 Type K in her
> kiln
> up to over +1200 C.
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> > By the way, the Hobo says the interior of the environmental
> chamber got
> > to -80 *F. That's below it's minmum rating, so I don't know what
> that
> > actually means. But dry ice has a temperature of -109 *F and it
> was in
> > contact with the canister. Also, the temperature drop was smooth
> to -80 *F.
> >
> > --
> > Onwards and Upwards,
> > Paul
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>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5178. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 15:34:07 UTC
From: John Nordlie
Topic: 5167 Message: 5178

Congrats Paul, that chamber sounds like it's really coming
along.

We've used thin threaded rod with washers and nuts (and a
goodly dollop of silicone caulk) to make electrical feed-throughs
for a plastic chamber we made a few years back. Seems to
work very well.

On Tue, 2009-04-07 at 08:01 -0500, L. Paul Verhage wrote:
> I'll need to place the DVM in the chamber since I have no way to pass
> wires out of the closed canister.
>
> Paul
>
>
>
> On Mon, Apr 6, 2009 at 8:12 PM, Mike Manes <mrmanes@...> wrote:
> Hi Paul,
>
> You could use a thermocouple and a DVM on the 200.0 mV DC
> range to get a
> fair measure of temperature down that low. I have a some Type
> J (Iron-
> Constantin) wire that I could send you. Just put the
> measurement ends
> into your DVM jack and add the DVM ambient to the thermocouple
> temp
> derived from the table in the Omega Temperature catalog or NBS
> Circular
> #561. At -80 C, Type J will read -3.8 mV dc, and the slope is
> about 0.5 mV/C.
>
> My potter / bride uses this technique with DPM and #14 Type K
> in her kiln
> up to over +1200 C.
>
> 73 de Mike W5VSI
>
>
> L. Paul Verhage wrote:
> > By the way, the Hobo says the interior of the environmental
> chamber got
> > to -80 *F. That's below it's minmum rating, so I don't know
> what that
> > actually means. But dry ice has a temperature of -109 *F

> and it was in
> > contact with the canister. Also, the temperature drop was
> smooth to -80 *F.
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> > Onwards and Upwards,
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more
> so."
> A. Einstein
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> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
Odegard Hall, Rm 257
3980 Campus Road
University of North Dakota
Grand Forks, ND 58202-9007

nordlie@...
Voice 701-777-6112 / fax 701-777-3888
http://blizzard.rwic.und.edu/~nordlie/

5179. Re: [GPSL] Environmental Chamber Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 16:01:19 UTC
From: L. Paul Verhage
Topic: 5167 Message: 5179

I think I'll experiment with that next. It seems like they would be easier to find. The article I'm putting together on the chamber will be published in Nuts and Volts and I don't want any part of it to require specialized components. I'm limiting myself to local hardware type of stuff.

As soon as I know my summer schedule, I'll arrange a visit for a launch.

Paul

On Tue, Apr 7, 2009 at 10:34 AM, John Nordlie <nordlie@...> wrote:

> Congrats Paul, that chamber sounds like it's really coming
> along.
>
> We've used thin threaded rod with washers and nuts (and a
> goodly dollop of silicone caulk) to make electrical feed-throughs
> for a plastic chamber we made a few years back. Seems to
> work very well.
>
> On Tue, 2009-04-07 at 08:01 -0500, L. Paul Verhage wrote:
> > I'll need to place the DVM in the chamber since I have no way to pass
> > wires out of the closed canister.
> >
> > Paul
> >
> >
> >
> > On Mon, Apr 6, 2009 at 8:12 PM, Mike Manes <mrmanes@...> wrote:
> > Hi Paul,
> >
> > You could use a thermocouple and a DVM on the 200.0 mV DC
> > range to get a
> > fair measure of temperature down that low. I have a some Type
> > J (Iron-
> > Constantin) wire that I could send you. Just put the
> > measurement ends
> > into your DVM jack and add the DVM ambient to the thermocouple
> > temp
> > derived from the table in the Omega Temperature catalog or NBS
> > Circular
> > #561. At -80 C, Type J will read -3.8 mV dc, and the slope is
> > about 0.5 mV/C.
> >
> > My potter / bride uses this technique with DPM and #14 Type K
> > in her kiln
> > up to over +1200 C.

> >
> > 73 de Mike W5VSI
> >
> >
> > L. Paul Verhage wrote:
> > > By the way, the Hobo says the interior of the environmental
> > chamber got
> > > to -80 *F. That's below it's minmum rating, so I don't know
> > what that
> > > actually means. But dry ice has a temperature of -109 *F
> > and it was in
> > > contact with the canister. Also, the temperature drop was
> > smooth to -80 *F.
> > >
> > > --
> > > Onwards and Upwards,
> > > Paul
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> > Mike Manes mrmanes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more
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> > Yahoo! Groups Links
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> > --
> > Onwards and Upwards,
> > Paul
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> --
> --
> John Nordlie
> Research Assistant/Systems Administrator
> Regional Weather Information Center
> Odegard Hall, Rm 257

> 3980 Campus Road
> University of North Dakota
> Grand Forks, ND 58202-9007
>
> nordlie@...
> Voice 701-777-6112 / fax 701-777-3888
> http://blizzard.rwic.und.edu/~nordlie/
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5180. Re: [GPSL] GPSL 2009 regrets

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-07 20:57:11 UTC
From: Mark Garrett
Topic: 5169 Message: 5180

Howard:

Could you contact me off the list. I used to live in Champaign and know quite a few hams in the area. I know that several would be willing to assist in recovery as well as several that would want to view the video from their stations.

Thanks

Mark Garrett, KA9SZX
ka9szx@yahoo.com

--- On Mon, 4/6/09, BASE <basedepauw@...> wrote:

From: BASE <basedepauw@...>
Subject: [GPSL] GPSL 2009 regrets
To: "Great Plains Superlaunch" <gpsl@yahoogroups.com>
Date: Monday, April 6, 2009, 3:57 PM

Dear friends,

BASE will not be attending the GPSL this year.

I've been invited to provide the lift platform(s?) for the Space Jam-3 event at Chanute Air Museum in Rantoul, IL on the same day. This is a Scout activity, and the organizers knew about my Scouter and high altitude ballooning background. I just couldn't say no to the boys. This link will lead you to a brief flyer about the event (www.spacejamboree. com).

The organizers want to fly assorted HAM equipment. They like to fly two ATV systems (one camera aimed to the horizon and one to the ground). They also like to fly VHF/UHF repeater(s). I know that I'll rely on many of you for guidance in these matters. [I promise to get my Technician license before the event.]

We have discussed the possibility of floating or sending up multiple balloons. I know I'll be in touch with some of you about the float options.

Sorry to miss the activities in Topeka, but I look forward to 2010 in ???.

Howard

5181. Re: It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-08 03:57:41 UTC
From: Nicholas Stich
Topic: 5166 Message: 5181

> Kirk Welding will sell us T tanks of helium for $81.18 each and

Paul, is Kirk Gas still in business in Topeka ? That is who I had been getting my gas from but they were bought out by Praxair about 6 to 9 months ago.

Regards,
Nick Stich

5182. Re: [GPSL] Re: It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-08 12:48:37 UTC
From: L. Paul Verhage
Topic: 5166 Message: 5182

I think that's right. They still call themselves Kirk's.

Paul

On Tue, Apr 7, 2009 at 10:57 PM, Nicholas Stich <NStich@...> wrote:

>
> > Kirk Welding will sell us T tanks of helium for $81.18 each and
>
> Paul, is Kirk Gas still in business in Topeka ? That is who I had been
> getting my gas from but they were bought out by Praxair about 6 to 9 months
> ago.
>
> Regards,
> Nick Stich
>
>
>
>
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>
> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

5183. Gamin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-08 19:28:39 UTC
From: L. Paul Verhage
Topic: 5183 Message: 5183

I've set the Garmin tour up for 1 PM on Thursday, July 16th. We can met in Olathe for lunch and then head over.

--
Onwards and Upwards,
Paul

5184. Attendee Info So Far

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-08 23:53:30 UTC
From: L. Paul Verhage
Topic: 5184 Message: 5184
Attachments: 1 described; binary payloads are missing from this source WARC

Attached is my notes on GPSL attendees. Please look it over so I can make updates.

--
Onwards and Upwards,
Paul

5185. Re: [GPSL] Attendee Info So Far

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 00:10:57 UTC
From: Zack Clobes
Topic: 5184 Message: 5185

Put me down for 2 on the Garmin tour.

Zack

On Wed, Apr 8, 2009 at 6:53 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Attached is my notes on GPSL attendees. Please look it over so I can make
> updates.
>
> --
> Onwards and Upwards,
> Paul
>
>

5186. ARHAB balloon dinner at the Dayton Hamvention?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 00:43:02 UTC
From: wb8elk@aol.com
Topic: 5186 Message: 5186

The ARHAB Balloon Forum was a big hit last year at the Dayton Hamvention and drew a packed house in the large forum room.....sadly, they have badly messed up the Forums scheduling this year and have been losing emails with Forum requests...as a result of the Hamvention Forums Committee's chaos, they have not scheduled the Balloon Forum this year at the Dayton Hamvention even though I attempted to contact them nearly a dozen times to no avail or response....hopefully they will have fixed their email and internal communications problems and the way they schedule their forums by next year.

So....since there will be no Balloon Forum this year, I was wondering how many of you will be attending the Hamvention and whether you'd like to join us at the ATV Dinner on Friday night (since many of you also fly ATV on balloons)....or whether we would have enough interest to hold a Balloon Dinner on Saturday night after the Hamvention.

Let me know if any of you are interested in either option.

73s de Bill WB8ELK

PS....the ATV Dinner during the Hamvention will be held from 7pm to 10pm on Friday at Roush's Restaurant in Fairborn, Ohio.....there are always lots of door prizes.
A link with a map to the dinner can be found on my website: _www.wb8elk.com_ (http://www.wb8elk.com)
**********New Deals on Dell Netbooks - Now starting at $299 (A HREF=http://pr.atwola.com/promoclk/100126575x1219939010x1201342897/aol?redir=http:%2F%2Fad.doubleclick.net%2Fclk%3B213771626%3B35379597%3Bw)

5187. RE: [GPSL] Attendee Info So Far

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 03:11:07 UTC
From: Nick Hanks
Topic: 5184 Message: 5187

Paul,

Some changes in your document for EOSS.

We picked up one more for the tech session giving us a count of 12.

We upped our gas request in an email last week to two T-bottles.

We'll have 16 on the Garmin tour.

Looks like it's coming together for you. Nice work!

73,

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Wednesday, April 08, 2009 17:54
To: gpsl@yahoogroups.com
Subject: [GPSL] Attendee Info So Far

Attached is my notes on GPSL attendees. Please look it over so I can make updates.

--
Onwards and Upwards,
Paul

5188. Re: [GPSL] Attendee Info So Far

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 03:57:06 UTC
From: Bruce Coates
Topic: 5184 Message: 5188

Hi Paul

On behalf of the Saskatoon Amateur Radio Club and our balloon project, SABRE, my wife and I will be attending GPSL and the Garmin tour.

73, Bruce (VE5BNC) and Leigh (VE5LEE)
http://ve5aa.dyndns.org

----- Original Message -----
From: L. Paul Verhage
To: gpsl@yahoogroups.com
Sent: Wednesday, April 08, 2009 5:53 PM
Subject: [GPSL] Attendee Info So Far

Attached is my notes on GPSL attendees. Please look it over so I can make updates.

--
Onwards and Upwards,
Paul

5189. GPSL Topics

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 12:51:45 UTC
From: L. Paul Verhage
Topic: 5189 Message: 5189

I'm adding presentation topics to the list. If you know your topic, please email me that information. I'll speak on the enironmental chamber and BalloonSats.

If we have too many topics for Friday, I'd recommend we do mini informal presentations after the Garmin tour at some local restaurant.

--
Onwards and Upwards,
Paul

5190. UAH Balloonsats to fly this Saturday morning from UAH-streaming video of launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 17:12:24 UTC
From: wb8elk@aol.com
Topic: 5190 Message: 5190

Hi Ralph,

As far as I know there will be 2 balloons...one will be cutdown at about 40k feet and one will go to burst just like last weekend....Launch just after 9:30 am CDT for the first balloon and an hour later for the last one.

The APRS trackers will be likely:

KG4WSV-11, KG4WSV-12 and KG4WSV-13

Also will fly the WB8ELK multi-mode tracker (FM/SSB) on 144.34 on the high altitude flight....(RTTY,CW and Hellscreiber).

Streaming video as before starting at 9:30 am CDT (1430 UTC) :

www.batc.tv (http://www.batc.tv) then click on LIVE EVENTS and select the Balloon Flight

- Bill WB8ELK
**********New Deals on Dell Netbooks – Now starting at $299 (A HREF=http://pr.atwola.com/promoclk/100126575x1220635155x1201407495/aol?redir=http:%2F%2Fad.doubleclick.net%2Fclk%3B213771973%3B35379628%3Bw)

5191. Re: [GPSL] ARHAB balloon dinner at the Dayton Hamvention?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-09 20:55:34 UTC
From: Mark Garrett
Topic: 5186 Message: 5191

Bill:

I will not be attending Dayton this year (No BGS show-sniff). Still planning on going to GPSL. I also have included you in Howard's intent to lauch a balloon for the Boy Scouts in Rantoul, north of Champaign.

Mark, SZX

--- On Wed, 4/8/09, wb8elk@... <wb8elk@...> wrote:

From: wb8elk@... <wb8elk@...>
Subject: [GPSL] ARHAB balloon dinner at the Dayton Hamvention?
To: GPSL@yahoogroups.com
Cc: ballooning@yahoogroups.com, balloonatics@yahoogroups.com, balloon_sked@yahoogroups.com, w5bl@sbcglobal.net, dbowen1@..., ben@..., rrochte@..., natrium@..., jacoxon@..., basedepauw@..., w7jlc@..., manes@..., nearsys@..., kmcaviezel@..., jorgedlt@yahoo.com, WB8ELK@...
Date: Wednesday, April 8, 2009, 7:43 PM

The ARHAB Balloon Forum was a big hit last year at the Dayton Hamvention and drew a packed house in the large forum room......sadly, they have badly messed up the Forums scheduling this year and have been losing emails with Forum requests...as a result of the Hamvention Forums Committee's chaos, they have not scheduled the Balloon Forum this year at the Dayton Hamvention even though I attempted to contact them nearly a dozen times to no avail or response.... hopefully they will have fixed their email and internal communications problems and the way they schedule their forums by next year.

So....since there will be no Balloon Forum this year, I was wondering how many of you will be attending the Hamvention and whether you'd like to join us at the ATV Dinner on Friday night (since many of you also fly ATV on balloons)... .or whether we would have enough interest to hold a Balloon Dinner on Saturday night after the Hamvention.

Let me know if any of you are interested in either option.

73s de Bill WB8ELK

PS....the ATV Dinner during the Hamvention will be held from 7pm to 10pm on Friday at Roush's Restaurant in Fairborn, Ohio.....there are always lots of door prizes.
A link with a map to the dinner can be found on my website: www.wb8elk.com

New Deals on Dell Netbooks - Now starting at $299

5192. Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-10 00:08:08 UTC
From: L. Paul Verhage
Topic: 5192 Message: 5192

Is anyone interested in purchasing a pressure sensor that runs from 0 to 15 PSI?

The SM5812 is at the end of its production and Silicon Micro Structures has said they'd sell the last of their stock (96 of them) for $10 each if I purchase all of them.

I've developed a weather station PCB for near space flights that uses the sensor and includes temperature and RH. My plan is to sell it as a kit to go along with the BalloonSat flight computers I'm mselling now (in the near future I'll also start selling kits of my two new complete flight computers - they incorporate radios)

However, there's no way I can afford to purchase $960 worth of material. So I'm interested in a bulk purchase so I can get some of them.

--
Onwards and Upwards,
Paul

5193. Re: [GPSL] ARHAB balloon dinner at the Dayton Hamvention?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-10 00:09:33 UTC
From: L. Paul Verhage
Topic: 5186 Message: 5193

Do I have you on my list of attendees? Will you need helium and will you tour Garmin?

Paul

On Thu, Apr 9, 2009 at 3:55 PM, Mark Garrett <ka9szx@...> wrote:

>
>
> Bill:
>
> I will not be attending Dayton this year (No BGS show-sniff). Still
> planning on going to GPSL. I also have included you in Howard's intent to
> lauch a balloon for the Boy Scouts in Rantoul, north of Champaign.
>
> Mark, SZX
>
> --- On *Wed, 4/8/09, wb8elk@... <wb8elk@...>* wrote:
>
>
> From: wb8elk@... <wb8elk@...>
> Subject: [GPSL] ARHAB balloon dinner at the Dayton Hamvention?
> To: GPSL@yahoogroups.com
> Cc: ballooning@yahoogroups.com, balloonatics@yahoogroups.com,
> balloon_sked@yahoogroups.com, w5bl@..., dbowen1@...,
> ben@..., rrochte@..., natrium@...,
> jacoxon@..., basedepauw@..., w7jlc@...,
> manes@..., nearsys@..., kmcaviezel@...,
> jorgedlt@..., WB8ELK@...
> Date: Wednesday, April 8, 2009, 7:43 PM
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> Let me know if any of you are interested in either option.
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> 73s de Bill WB8ELK
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> PS....the ATV Dinner during the Hamvention will be held from 7pm to 10pm on
> Friday at Roush's Restaurant in Fairborn, Ohio.....there are always lots of
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>
> ------------------------------
> New Deals on Dell Netbooks - Now starting at $299<http://pr.atwola.com/promoclk/10012657
5x1219939010x1201342897/aol?redir=http:%2F%2Fad.doubleclick.net%2Fclk%3B213771626%3B353795
97%3Bw>
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Onwards and Upwards,
Paul

5194. Re: [GPSL] Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-10 02:58:38 UTC
From: Mike Manes
Topic: 5192 Message: 5194

Hi Paul et al,

This is an OK absolute sensor (if that's what they're selling) - but its cumulative error is over 2.5% of full scale, which makes uncalibrated measurements at 100K' or 1% FS tough. Here's a link to the spec sheet:

http://www.si-micro.com/fileadmin/pdf/Datasheets/datasheet_SM5812_-_SM5852.pdf

If they are indeed P/N SM5812-15-A-3-x then put me down for 3 of 'em.

73 de Mike W5VSI
CTO EOSS

L. Paul Verhage wrote:
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>
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> However, there's no way I can afford to purchase $960 worth of
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> them.
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> --
> Onwards and Upwards,
> Paul
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>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5195. Re: [GPSL] Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-10 02:50:05 UTC
From: L. Paul Verhage
Topic: 5192 Message: 5195

They're part number SM5812-015-A-3-LR
Is there an interest in purchasing a complete weather station for near space? It would include temperature, pressure, and RH. I suspect it would be less than $40. Plug it into a flight computer giving it 5V and ground and it will give you three analog voltages.

Paul

On Thu, Apr 9, 2009 at 9:58 PM, Mike Manes <mrmanes@...> wrote:

> Hi Paul et al,
>
> This is an OK absolute sensor (if that's what they're selling) - but its
> cumulative error is over 2.5% of full scale, which makes uncalibrated
> measurements at 100K' or 1% FS tough. Here's a link to the spec
> sheet:
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> http://www.si-micro.com/fileadmin/pdf/Datasheets/datasheet_SM5812_-_SM5852.pdf
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5196. Re: ARHAB balloon dinner at the Dayton Hamvention?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-10 13:45:36 UTC
From: Ron Malinowski, Jr.
Topic: 5186 Message: 5196

Bill,

I would be available to do one of the nights, I will be attending Thursday through Sunday morning.

N9QGS

5197. XBS Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-11 01:28:36 UTC
From: L. Paul Verhage
Topic: 5091 Message: 5197

The XBS group at KU is launching tomorrow morning at 7:00 AM. The launch site is the KU campus. One of my tracking capsules will go up as well the XBS capsule. I'll transmit at 144.39 under callsign KD4STH. I'll try to get XBS to post information on their capsule. The plan is to fly two 1200 gram balloons and use a cutdown to terminate the flight.

--
Onwards and Upwards,
Paul

5198. XBS Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-11 13:27:09 UTC
From: L. Paul Verhage
Topic: 5091 Message: 5198

I have a robot workshop to give, so I'm not on chase (in fact at the Dunn Bros coffee shop). XBS is transmitting at 144.420 under callsign K0KU-11. They launched two 2000 gram balloons with 7 lb lift each. The total payload weight was 10 pounds.

Interesting sight, the two balloons were pulled away from each other on ascent as if the air passing down them was pushing them apart.

--
Onwards and Upwards,
Paul

5199. Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-11 22:00:39 UTC
From: L. Paul Verhage
Topic: 5199 Message: 5199

The XBS flight went well, it reached 105,700 feet. Something we observed is that the two balloons remained apart from one another during the ascent. The balloons were tethered to the top of the parachute with 30 foot lines and remained apart from each other by 20 or so feet. They slowly rotated, but no where fast enough to create a centripedal force to keep them apart. I'll post a picture to the group so you can see. This appears to have occured for thousands of feet of the ascent.

What force can keep them apart like this? Curious minds want to know.

--
Onwards and Upwards,
Paul

5200. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-12 01:55:12 UTC
From: Zack Clobes
Topic: 5199 Message: 5200

I'm not sure how the balloons were connected, but I flew a pair once where I had a large one (1200g maybe?) and a smaller one (600g?). The larger one actually pulled the smaller up behind it. I chocked it up to the smaller one having less lift than the aerodynamic drag that the primary balloon was creating. I don't recall now how they were inflated in terms of lift pounds....

Zack Clobes, W0ZC
Project: Traveler

On Sat, Apr 11, 2009 at 5:00 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
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> observed is that the two balloons remained apart from one another during the
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> Onwards and Upwards,
> Paul
>
>

5201. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-12 13:55:48 UTC
From: L. Paul Verhage
Topic: 5199 Message: 5201

I ran a calculation last night.

The balloons where 2000 gram balloons and both filled to 7 pounds positive lift. The line between each balloon and the parachute was 30 feet long. From a picture, I calculate the balloons were 28 feet apart. That creates an angle of 29.5 degrees between each balloon and the center line. With 7 pounds pulling up, a force of 4 pounds was pulling each balloon horizontally. Since the balloons are roughly 6.5 feet in diameter, that creates a 2-D surface area of 33 square feet for a horizontal pressure to pull the balloons a part. Seven pounds acting over 33 square feet gives a pressure differential of 0.00147 PSI, or 1/1000 of an atmosphere acting horizontally on the balloons as they climb at 1,200 fpm.

Paul

On Sat, Apr 11, 2009 at 8:55 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I'm not sure how the balloons were connected, but I flew a pair once where
> I had a large one (1200g maybe?) and a smaller one (600g?). The larger one
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Onwards and Upwards,
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5202. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-12 22:12:59 UTC
From: Mike Manes
Topic: 5199 Message: 5202

If one assumes that the space between the balloons presents a flow obstruction that >reduces< the mass air flow in that region, then Bernoulli's Law would predict that the >static< pressure in that region would increase. Where does the "excess" airflow go? I'd suggest that it joins the flow passes around the outer periphery of the pair of balloons, thus increasing that airflow & thus reducing the static pressure at the periphery.

This is counterintuitive to those who recall the Bernoulli demo involving blowing between a pair of parallel suspended paper strips. So it may be unique to a pair of equal spheres attached just so in a specific range of Reynold's numbers.

Or not.

Anyone have access to a 3D Navier-Stokes FEM system?

73 de Mike W5VSI
CTO EOSS

L. Paul Verhage wrote:
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> I ran a calculation last night.
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A. Einstein

5203. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-12 21:37:49 UTC
From: L. Paul Verhage
Topic: 5199 Message: 5203

I was wondering if the balloons were generating lift from the air flowing down them. However, it would seem that since the balloons rotate, the direction of the lift they generate should change over time. The result is that the distance between the balloons should change.

For the time we could see the balloons, they maintained their seperation. I'll get copy of the video XBS took from their module. That will show how the seperation between the balloons changed during the mission.

Paul

On Sun, Apr 12, 2009 at 5:12 PM, Mike Manes <mrmanes@...> wrote:

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> obstruction
> that >reduces< the mass air flow in that region, then Bernoulli's Law would
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Onwards and Upwards,
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5204. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-12 22:57:49 UTC
From: Mike Manes
Topic: 5199 Message: 5204

Ascending balloons generate drag due to air flowing down on the tops. This is why we pump excess lift in 'em. Now, perhaps you're thinking of a horizontal component of "lift" acting on the equatorial regions of the balloons - that's kind of my thinking as well. For a single balloon, that "lift" would be equal and opposite on the same structure, so the net effect would be null, other than perhaps to stretch the skin laterally a bit. But on a laterally-disposed pair, it would tend to separate 'em; this explanation works only if one assumes that the medial airflow is attenuated, however.

The phenom that Zack describes suggests that the low static pressure developed in the wake of an ascending balloon will suck smaller stuff inward - as in the case of his unequal pair. That effect would increase with balloon size.

73 de Mike W5VSI

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> > to have occured for thousands of feet of the ascent.
> >
> > What force can keep them apart like this? Curious minds
> want to
> > know.
> >
> > --
> > Onwards and Upwards,
> > Paul
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> > --
> > Onwards and Upwards,
> > Paul
> >
> >
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> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:

> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
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> --
> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5205. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-13 00:32:11 UTC
From: Joe
Topic: 5199 Message: 5205

Abnyone want to try to fill in the data on a on line wind tunnel and see what happebns?

http://www.denford.com/Virtual%20Wind%20Tunnel.html

Joe

Zack Clobes wrote:

>
>
> I'm not sure how the balloons were connected, but I flew a pair once
> where I had a large one (1200g maybe?) and a smaller one (600g?). The
> larger one actually pulled the smaller up behind it. I chocked it up
> to the smaller one having less lift than the aerodynamic drag that the
> primary balloon was creating. I don't recall now how they were
> inflated in terms of lift pounds....
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> On Sat, Apr 11, 2009 at 5:00 PM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
>
>
>
> The XBS flight went well, it reached 105,700 feet. Something we
> observed is that the two balloons remained apart from one another
> during the ascent. The balloons were tethered to the top of the
> parachute with 30 foot lines and remained apart from each other by
> 20 or so feet. They slowly rotated, but no where fast enough to
> create a centripedal force to keep them apart. I'll post a
> picture to the group so you can see. This appears to have occured
> for thousands of feet of the ascent.
>
> What force can keep them apart like this? Curious minds want to
> know.
>
> --
> Onwards and Upwards,
> Paul
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5206. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-13 04:19:42 UTC
From: L. Paul Verhage
Topic: 5199 Message: 5206

Uh oh

I think I forsee see me trying to build a simple wind tunnel for testing balloon and parachute performance. That would get me another Nuts and Volts column. The tunnel would be vertical with a fan on top and a vacuum cleaner on the bottom. A thick bundle of drinking straws would help make the air flow laminar. Inside I could tether one or two toy helium balloons on thread. I could also flip it up side down to test parachutes. With a rheostat I could vary wind speed while testing parachutes and balloons of different diameters.

I better start reading abut Reynold's Number.

Paul

On Sun, Apr 12, 2009 at 7:32 PM, Joe <nss@...> wrote:

>
>
> Abnyone want to try to fill in the data on a on line wind tunnel and see
> what happebns?
>
> http://www.denford.com/Virtual%20Wind%20Tunnel.html
>
> Joe
>
>
> Zack Clobes wrote:
>
> I'm not sure how the balloons were connected, but I flew a pair once where
> I had a large one (1200g maybe?) and a smaller one (600g?). The larger one
> actually pulled the smaller up behind it. I chocked it up to the smaller
> one having less lift than the aerodynamic drag that the primary balloon was
> creating. I don't recall now how they were inflated in terms of lift
> pounds....
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> On Sat, Apr 11, 2009 at 5:00 PM, L. Paul Verhage <nearsys@...>wrote:
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>>
>>
>> The XBS flight went well, it reached 105,700 feet. Something we
>> observed is that the two balloons remained apart from one another during the
>> ascent. The balloons were tethered to the top of the parachute with 30 foot

>> lines and remained apart from each other by 20 or so feet. They slowly
>> rotated, but no where fast enough to create a centripedal force to keep them
>> apart. I'll post a picture to the group so you can see. This appears to
>> have occured for thousands of feet of the ascent.
>>
>> What force can keep them apart like this? Curious minds want to
>> know.
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>> Onwards and Upwards,
>> Paul
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--
Onwards and Upwards,
Paul

5207. Fwd: [Ballooning] Michael Gray, KD7LMO Killed while bicycling

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-13 18:55:57 UTC
From: wb8elk@aol.com
Topic: 5207 Message: 5207

-----Original Message-----
From: Jack Crabtree <jscra@...>
To: Ballooning <Ballooning@yahoogroups.com>
Sent: Mon, 13 Apr 2009 1:43 pm
Subject: [Ballooning] Michael Gray, KD7LMO Killed while bicycling

We have received word that Michael Gray, KD7LMO, was killed Sunday, April 12, ?while bicycling to visit his parents. This occurred about 3:30 P.M. on Maricopa Road near the Maricopa Fire Department. Initial information was that he was bicyling with two friends, when he was struck from behind by a drunk driver . Further information including that of Services, etc. will be forthcoming.

?

Michael will be sorely missed by his ANSR friends.

?

Jack Crabtree

5208. Re: [Ballooning] Michael Gray, KD7LMO Killed while bicycling

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-13 19:01:03 UTC
From: wb8elk@aol.com
Topic: 5208 Message: 5208

This is?devastating news....Michael's contributions to the ARHAB community were an inspiration to us all and?he will?be greatly missed.

- Bill WB8ELK

-----Original Message-----
From: Jack Crabtree <jscra@...>
To: Ballooning <Ballooning@yahoogroups.com>
Sent: Mon, 13 Apr 2009 1:43 pm
Subject: [Ballooning] Michael Gray, KD7LMO Killed while bicycling

We have received word that Michael Gray, KD7LMO, was killed Sunday, April 12, ?while bicycling to visit his parents. This occurred about 3:30 P.M. on Maricopa Road near the Maricopa Fire Department. Initial information was that he was bicyling with two friends, when he was struck from behind by a drunk driver . Further information including that of Services, etc. will be forthcoming.

?

Michael will be sorely missed by his ANSR friends.

?

Jack Crabtree

5209. Re: [GPSL] Odd Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-13 21:32:32 UTC
From: Mike Manes
Topic: 5199 Message: 5209

I've tried using a 3/4 HP furnace squirrel cage blower aimed upwards to test parachutes. It's >really< tough to get a broad, uniform airflow, even for a 1 ft diameter 'chute. I plan on using an array of toilet tissue cores to form a de-swirler - but I think it's gonna take more than that to simulate anything close to an actual descent. Towing behind a tall mast mounted on a vehicle on a deserted road may work better - although gravity is pointed the wrong direction.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> Uh oh
>
> I think I forsee see me trying to build a simple wind tunnel for testing
> balloon and parachute performance. That would get me another Nuts and
> Volts column. The tunnel would be vertical with a fan on top and a
> vacuum cleaner on the bottom. A thick bundle of drinking straws would
> help make the air flow laminar. Inside I could tether one or two toy
> helium balloons on thread. I could also flip it up side down to test
> parachutes. With a rheostat I could vary wind speed while testing
> parachutes and balloons of different diameters.
>
> I better start reading abut Reynold's Number.
>
> Paul
>
> On Sun, Apr 12, 2009 at 7:32 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
>
>
>
> Abnyone want to try to fill in the data on a on line wind tunnel and
> see what happebns?
>
> http://www.denford.com/Virtual%20Wind%20Tunnel.html
>
> Joe
>
>
> Zack Clobes wrote:
>> I'm not sure how the balloons were connected, but I flew a pair
>> once where I had a large one (1200g maybe?) and a smaller one
>> (600g?). The larger one actually pulled the smaller up behind

>> it. I chocked it up to the smaller one having less lift than the
>> aerodynamic drag that the primary balloon was creating. I don't
>> recall now how they were inflated in terms of lift pounds....
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>> On Sat, Apr 11, 2009 at 5:00 PM, L. Paul Verhage
>> <nearsys@... <mailto:nearsys@...>> wrote:
>>
>>
>>
>> The XBS flight went well, it reached 105,700 feet. Something
>> we observed is that the two balloons remained apart from one
>> another during the ascent. The balloons were tethered to the
>> top of the parachute with 30 foot lines and remained apart
>> from each other by 20 or so feet. They slowly rotated, but no
>> where fast enough to create a centripedal force to keep them
>> apart. I'll post a picture to the group so you can see. This
>> appears to have occured for thousands of feet of the ascent.
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>> What force can keep them apart like this? Curious minds want
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>> Onwards and Upwards,
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> --
> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5210. Re: [Balloon_Sked] Fwd: [Ballooning] Michael Gray, KD7LMO Killed while bicycling

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-14 00:41:51 UTC
From: Dan Bowen
Topic: 5207 Message: 5210

Michael Gray's work on balloons and electronics has been an
inspiration and model for all of us in UTARC and I'm sure many other
groups as well. I don't know what part he played in the ~2006 ANSR
ZP mission with the anti-freeze bottle, but the software and hardware
used on that flight was the inspiration for most of our long duration
balloon flights in the UTARC/SNOX group.
I have always admired his clean, information-packed website
(kd7lmo.net) has always shown his top-quality electronics work and
dedication to amateur ballooning. He will be greatly missed.

Dan Bowen
K2VOL

On Apr 13, 2009, at 2:55 PM, wb8elk@... wrote:

>
>
>
>
>
> -----Original Message-----
> From: Jack Crabtree <jscra@...>
> To: Ballooning <Ballooning@yahoogroups.com>
> Sent: Mon, 13 Apr 2009 1:43 pm
> Subject: [Ballooning] Michael Gray, KD7LMO Killed while bicycling
>
>
>
>
> We have received word that Michael Gray, KD7LMO, was killed Sunday,
> April 12, while bicycling to visit his parents. This occurred about
> 3:30 P.M. on Maricopa Road near the Maricopa Fire Department.
> Initial information was that he was bicyling with two friends, when
> he was struck from behind by a drunk driver . Further information
> including that of Services, etc. will be forthcoming.
>
> Michael will be sorely missed by his ANSR friends.
>
> Jack Crabtree
>
> A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
>
>

5211. GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-18 20:35:06 UTC
From: L. Paul Verhage
Topic: 599 Message: 5211

Parallax just donated over $500 worth of stuff, from BASIC Stamps to sensors.

I've also set up a Twitter account. I'll try sending tweets during GPSL presentations

--
Onwards and Upwards,
Paul

5212. Data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-19 18:27:30 UTC
From: L. Paul Verhage
Topic: 2219 Message: 5212

EOSS flew a datalogger of mine, basically it was a BalloonSat Mini board, to record the temperature of a battery pack. Mike tweaked the code to make it better than what I sent. So now when it's turned on, it dumps its data in memory and then waits for a commit pin to be pulled before recording again. It has enough memory to record once a minute for an entire flight. It can log temperature data at eight bits or in a 10-bits compressed format. It operates from a nine volt battery and it's pretty small and light.

If you're interested in flying it, let me know and I'll ask Mike to send it to you. Feel free to modify the code, you'll need to download the PICAXE Editor (it's free).

I'd like to make this a data logger that various groups can borrow and pass around.

--
Onwards and Upwards,
Paul

5213. Sun Sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-20 12:52:31 UTC
From: L. Paul Verhage
Topic: 5213 Message: 5213
Attachments: 1 described; binary payloads are missing from this source WARC

Here's a sun sensor I've developed.

It detects which quadrant the sun is located in. Eventually I want to modify the program to so it detects how far between quadrants the sun is located. It's based on photocells and the PICAXE-14M. I'mn starting a Nuts and Volts article on it.
--
Onwards and Upwards,
Paul

5214. Re: [GPSL] Sun Sensor [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-20 14:54:56 UTC
From: James Hannon
Topic: 5214 Message: 5214

Paul,
Have you considered using LEDs for the sensors? Forrest Mims uses them for his solar sensors and Duane Johnson http://www.redrok.com/electron.htm#led3x uses them for his solar trackers.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 4/20/2009 7:52:31 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Sun Sensor [1 Attachment][Attachment(s) from L. Paul Verhage included below]Here's a sun sensor I've developed.
It detects which quadrant the sun is located in. Eventually I want to modify the program to so it detects how far between quadrants the sun is located. It's based on photocells and the PICAXE-14M. I'mn starting a Nuts and Volts article on it.
--
Onwards and Upwards,
PaulAttachment(s) from L. Paul Verhage 1 of 1 Photo(s) sun sensor small.jpg

5215. Re: [GPSL] Sun Sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-20 15:21:37 UTC
From: L. Paul Verhage
Topic: 5213 Message: 5215

I've developed a LED photometer based on Forest's work and wrote about it in Nuts and Volts. The nice thing about using LEDs or photodiodes is that they don't require power. The PICAXE needs a voltage to digitize, so I'd have to four similar value resistors to generate the voltage from the photodiode current sources. Even if the photodiodes and resistors are matched, the software in the PICAXE can make adjustments before outputting a result.

Comparing the two designs side by side would make a neat Nuts and Volts article. Let me see what I can do.

Paul

On Mon, Apr 20, 2009 at 9:54 AM, James Hannon <jmhannon@...> wrote:

>
>
> Paul,
> Have you considered using LEDs for the sensors? Forrest Mims uses them for
> his solar sensors and Duane Johnson
> http://www.redrok.com/electron.htm#led3x uses them for his solar trackers.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 4/20/2009 7:52:31 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] Sun Sensor [1 Attachment]
>
> Here's a sun sensor I've developed.
>
> It detects which quadrant the sun is located in. Eventually I want to
> modify the program to so it detects how far between quadrants the sun is
> located. It's based on photocells and the PICAXE-14M. I'mn starting a Nuts
> and Volts article on it.
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Onwards and Upwards,
Paul

5216. Look at the Super Launch Website

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-20 18:01:49 UTC
From: L. Paul Verhage
Topic: 5216 Message: 5216

Take a look at the Super Launch website. Keith has arranged for a special event on Thursday night.

--
Onwards and Upwards,
Paul

5217. Balloon over the Atlantic - report at 1700 UTC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-20 17:06:37 UTC
From: wb8elk@aol.com
Topic: 5217 Message: 5217

1700 UTC - 13365 N34271 W48411 390 98 < - so the 1650 UTC was indeed N34222

looks like you are slowly ascending.....you might make it across the Pond at this rate.

For those who'd like to tune in:

www.globaltuners.com (http://www.globaltuners.com) Albany NY radio

10.146.9 CW 15khz filter <-- settings for Albany radio - tuning speed 100Hz

- Bill WB8ELK

**********Access 350+ FREE radio stations anytime from anywhere on the web. Get the Radio Toolbar! (http://toolbar.aol.com/aolradio/download.html?ncid=emlcntusdown00000003)

5218. Re: [GPSL] Sun Sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 03:58:52 UTC
From: Mike Manes
Topic: 5214 Message: 5218

They're not as sensitive as purpose-built phototransistors or CdS cells, based on development of optical detectors for status LEDs on the Canon camera used in SamCAm2. Cheap? Yeah.
73 de Mike W5VSI

James Hannon wrote:
>
>
> Paul,
> Have you considered using LEDs for the sensors? Forrest Mims uses them
> for his solar sensors and Duane Johnson
> http://www.redrok.com/electron.htm#led3x uses them for his solar trackers.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 4/20/2009 7:52:31 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] Sun Sensor [1 Attachment]
>
> Here's a sun sensor I've developed.
>
>
> It detects which quadrant the sun is located in. Eventually I want to
> modify the program to so it detects how far between quadrants the sun is
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> Nuts and Volts article on it.
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> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5219. Re: [GPSL] Sun Sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 04:00:41 UTC
From: Mike Manes
Topic: 5213 Message: 5219

Try CdS cells. Lots more sensing area, and nearly photopic response.
73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I've developed a LED photometer based on Forest's work and wrote about
> it in Nuts and Volts. The nice thing about using LEDs or photodiodes is
> that they don't require power. The PICAXE needs a voltage to digitize,
> so I'd have to four similar value resistors to generate the voltage from
> the photodiode current sources. Even if the photodiodes and resistors
> are matched, the software in the PICAXE can make adjustments before
> outputting a result.
>
> Comparing the two designs side by side would make a neat Nuts and Volts
> article. Let me see what I can do.
>
> Paul
>
> On Mon, Apr 20, 2009 at 9:54 AM, James Hannon <jmhannon@...
> <mailto:jmhannon@...>> wrote:
>
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> Paul,
> Have you considered using LEDs for the sensors? Forrest Mims uses
> them for his solar sensors and Duane Johnson
> http://www.redrok.com/electron.htm#led3x uses them for his solar
> trackers.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@... <mailto:nearsys@...>>
> Sent 4/20/2009 7:52:31 AM
> To: gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> Subject: [GPSL] Sun Sensor [1 Attachment]
>
> Here's a sun sensor I've developed.
>

>
> It detects which quadrant the sun is located in. Eventually I want
> to modify the program to so it detects how far between quadrants the
> sun is located. It's based on photocells and the PICAXE-14M. I'mn
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> Onwards and Upwards,
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> Onwards and Upwards,
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5220. Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 15:36:42 UTC
From: Joe
Topic: 5220 Message: 5220

Hi All,

Just been listening to WGN this morning and like wow, many people are always talking about worrying about one of our payloads getting hit by an aircraft.

I know we all then show the history that is Just has never happened even the hundreds flown by the weather service!

But i guess after the Hudson landing someone in congress or someplacvce anyway wanted a history of how often do bird hits happen and I was totally amazed!

The report says since 1990 there has beed a recorded 89,000 bird strikes! and probably over 100,000 is a more realistic number when non reported minor hits are added in.

and of the 89,000 hits, 2000 were serious enough to have the plane be concidered as being a total loss!

WOW!!

Joe WB9SBD
Near Space Sciences

5221. BLAST! Screening at GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 16:06:21 UTC
From: Keith Kaiser
Topic: 5221 Message: 5221

Paul and I have made arrangements to be one of the few sites in the U.S. to have a screening of the film BLAST! Please visit their website at http://www.BlastTheMovie.com/ for more information and I'm sure you will agree this is an exciting opportunity.

We will be showing this, most likely at the Kaw Area Technical School immediately after the Garmin tour. We will have to ask for a small donation to cover the cost, I'm guessing about $5 each, but I promise if we collect more than the cost we'll refund the difference.

If you have any questions, please let me know.

73's
Keith Kaiser
wa0tjt@...

5222. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 19:17:28 UTC
From: BASE
Topic: 5220 Message: 5222

Dear Joe,

I agree that the number of strikes is impressive. However, lack of a balloon plane collision is not surprising. There is a nice article about the height distribution of bird strikes, Height Distribution of Birds Recorded by Collisions with Civil Aircraft by RICHARD A. DOLBEER United States Department of Agriculture, Wildlife Services, Sandusky, OH 44870, USA

at this website:

http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1496&context=icwdm_usdanwrc

Only 7% of the airstrikes occur above 3500 feet agl. Our balloon flights typically spend no more than 6-8 minutes below that altitude. Or you could say that we spend no more than 5% of our flight time in that altitude domain. Many birds spend in their entire lifetime below 3500 agl!

Of course the other major factor is that we don't launch that many balloons, especially directly in front of aircraft that are taking off or landing in the same immediate area. Many birds enjoy life in the open fields surrounding airports.

Consdiering the cross sectional area, it is more likely that a plane will hit the balloon rather than a payload package.

Having said all of that, I admit that I always say a quick "Thank you, Lord" every time we get above 60 kft! Considering that in the 35 flights that BASE has completed, I've already had one Interstate highway median landing (BASE 31) and one collision with truck traveling on a highway(BASE 23). The airplane encounter is only a matter of time!

Howard

--- On Fri, 4/24/09, Joe <nss@...> wrote:
From: Joe <nss@...>
Subject: [GPSL] Airplane Strikes.
To: GPSL@yahoogroups.com
Date: Friday, April 24, 2009, 11:36 AM

Hi All,

Just been listening to WGN this morning and like wow, many people are

always talking about worrying about one of our payloads getting hit by

an aircraft.

I know we all then show the history that is Just has never happened even

the hundreds flown by the weather service!

But i guess after the Hudson landing someone in congress or someplacvce anyway wanted a history of how often do bird hits happen and I was totally amazed!

The report says since 1990 there has beed a recorded 89,000 bird strikes! and probably over 100,000 is a more realistic number when non reported minor hits are added in.

and of the 89,000 hits, 2000 were serious enough to have the plane be concidered as being a total loss!

WOW!!

Joe WB9SBD

Near Space Sciences

5223. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-24 20:02:27 UTC
From: Joe
Topic: 5220 Message: 5223

We ahve had two interesting landing locations and one close flyby.

First the flyby

This was soo cool,, we were making our typical calls to Chicago center and was in conversation with the supervisor,, he said that he was seeing our radar reflector just fine,, That was cool enough but he then said that this is another video flight right? And it was he then said what way is the camera looking, and i described it and he said make it look down, and we did, he tghen says keep watching, keep watching get ready,,,, and all of a sudden we see a DC-10 fly by under the payload!! sooo cool he said it was about 3000 feet below the box at the time.. soo that was way cool,,

The other crazy was the landing least wanted,, yiou talk about an interstate median?? I'll raise ya one between two taxi ways at OHARE!!!! now that a spot to land!!!

Joe
Near Space Sciences

BASE wrote:

>
>
> Dear Joe,
>
> I agree that the number of strikes is impressive. However, lack of a
> balloon plane collision is not surprising. There is a nice article
> about the height distribution of bird strikes, Height Distribution of
> Birds Recorded by Collisions with Civil Aircraft by RICHARD A. DOLBEER
> United States Department of Agriculture, Wildlife Services, Sandusky,
> OH 44870, USA
>
> at this website:
>
> http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1496&context=icwdm_usdanwrc
>
> Only 7% of the airstrikes occur above 3500 feet agl. Our balloon
> flights typically spend no more than 6-8 minutes below that altitude.
> Or you could say that we spend no more than 5% of our flight time in
> that altitude domain. Many birds spend in their entire lifetime below
> 3500 agl!
>
> Of course the other major factor is that we don't launch that many
> balloons, especially directly in front of aircraft that are taking off

> or landing in the same immediate area. Many birds enjoy life in the
> open fields surrounding airports.
>
> Consdiering the cross sectional area, it is more likely that a plane
> will hit the balloon rather than a payload package.
>
> Having said all of that, I admit that I always say a quick "Thank you,
> Lord" every time we get above 60 kft! Considering that in the 35
> flights that BASE has completed, I've already had one Interstate
> highway median landing (BASE 31) and one collision with truck
> traveling on a highway(BASE 23). The airplane encounter is only a
> matter of time!
>
> Howard
>
> --- On Fri, 4/24/09, Joe <nss@...> wrote:
>
> From: Joe <nss@...>
> Subject: [GPSL] Airplane Strikes.
> To: GPSL@yahoogroups.com
> Date: Friday, April 24, 2009, 11:36 AM
>
> Hi All,
>
> Just been listening to WGN this morning and like wow, many people are
> always talking about worrying about one of our payloads getting
> hit by
> an aircraft.
>
> I know we all then show the history that is Just has never
> happened even
> the hundreds flown by the weather service!
>
> But i guess after the Hudson landing someone in congress or
> someplacvce
> anyway wanted a history of how often do bird hits happen and I was
> totally amazed!
>
> The report says since 1990 there has beed a recorded 89,000 bird
> strikes! and probably over 100,000 is a more realistic number when
> non
> reported minor hits are added in.
>
> and of the 89,000 hits, 2000 were serious enough to have the plane be
> concidered as being a total loss!
>
> WOW!!
>
> Joe WB9SBD
> Near Space Sciences

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5224. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-25 02:53:34 UTC
From: Mike Manes
Topic: 5220 Message: 5224

I smacked a goose (I think) once at 300 kt on a low-level navigation training mission in a T-39. Never saw it coming - just a streak past the port side, a bump and some feathers jammed in the port elevator horn on postflight. One of the linemen was an amateur ornithologist who identified the species from the wing feathers. Five feet to the right and it coulda been a lot worse!
73 de Mike W5VSI

Joe wrote:
> Hi All,
>
> Just been listening to WGN this morning and like wow, many people are
> always talking about worrying about one of our payloads getting hit by
> an aircraft.
>
> I know we all then show the history that is Just has never happened even
> the hundreds flown by the weather service!
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> anyway wanted a history of how often do bird hits happen and I was
> totally amazed!
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> strikes! and probably over 100,000 is a more realistic number when non
> reported minor hits are added in.
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> and of the 89,000 hits, 2000 were serious enough to have the plane be
> concidered as being a total loss!
>
> WOW!!
>
> Joe WB9SBD
> Near Space Sciences
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

5225. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-28 02:07:58 UTC
From: Mike Manes
Topic: 5220 Message: 5225

Hi Joe,

It musta been a slllllloooooowwwww day at Chicago Center if the controller was watching primary returns! Our waiver for heavies includes an exemption from flying a reflector, so long as we Igate APRS to aprs.org where they can track us in real time. Denver ARTCC only sees transponders, although they can turn primary returns on.

73 de Mike W5VSI

Joe wrote:
>
>
> We ahve had two interesting landing locations and one close flyby.
>
> First the flyby
>
> This was soo cool,, we were making our typical calls to Chicago center
> and was in conversation with the supervisor,, he said that he was seeing
> our radar reflector just fine,, That was cool enough but he then said
> that this is another video flight right? And it was he then said what
> way is the camera looking, and i described it and he said make it look
> down, and we did, he tghen says keep watching, keep watching get
> ready,,,, and all of a sudden we see a DC-10 fly by under the
> payload!! sooo cool he said it was about 3000 feet below the box at
> the time.. soo that was way cool,,
>
> The other crazy was the landing least wanted,, yiou talk about an
> interstate median?? I'll raise ya one between two taxi ways at
> OHARE!!!! now that a spot to land!!!
>
> Joe
> Near Space Sciences
>
> BASE wrote:
>> Dear Joe,
>>
>> I agree that the number of strikes is impressive. However, lack of a
>> balloon plane collision is not surprising. There is a nice article
>> about the height distribution of bird strikes, Height Distribution of
>> Birds Recorded by Collisions with Civil Aircraft by RICHARD A. DOLBEER
>> United States Department of Agriculture, Wildlife Services, Sandusky,
>> OH 44870, USA
>>
>> at this website:
>>

>> http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1496&context=icwdm_usdanwrc
>>
>> Only 7% of the airstrikes occur above 3500 feet agl. Our balloon
>> flights typically spend no more than 6-8 minutes below that altitude.
>> Or you could say that we spend no more than 5% of our flight time in
>> that altitude domain. Many birds spend in their entire lifetime below
>> 3500 agl!
>>
>> Of course the other major factor is that we don't launch that many
>> balloons, especially directly in front of aircraft that are taking off
>> or landing in the same immediate area. Many birds enjoy life in the
>> open fields surrounding airports.
>>
>> Consdiering the cross sectional area, it is more likely that a plane
>> will hit the balloon rather than a payload package.
>>
>> Having said all of that, I admit that I always say a quick "Thank you,
>> Lord" every time we get above 60 kft! Considering that in the 35
>> flights that BASE has completed, I've already had one Interstate
>> highway median landing (BASE 31) and one collision with truck
>> traveling on a highway(BASE 23). The airplane encounter is only a
>> matter of time!
>>
>> Howard
>>
>> --- On *Fri, 4/24/09, Joe /<nss@...>/* wrote:
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>> From: Joe <nss@...>
>> Subject: [GPSL] Airplane Strikes.
>> To: GPSL@yahoogroups.com
>> Date: Friday, April 24, 2009, 11:36 AM
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>> Just been listening to WGN this morning and like wow, many people are
>> always talking about worrying about one of our payloads getting
>> hit by
>> an aircraft.
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>> I know we all then show the history that is Just has never
>> happened even
>> the hundreds flown by the weather service!
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>> But i guess after the Hudson landing someone in congress or
>> someplacvce
>> anyway wanted a history of how often do bird hits happen and I was
>> totally amazed!
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>> The report says since 1990 there has beed a recorded 89,000 bird
>> strikes! and probably over 100,000 is a more realistic number when

>> non
>> reported minor hits are added in.
>>
>> and of the 89,000 hits, 2000 were serious enough to have the plane be
>> concidered as being a total loss!
>>
>> WOW!!
>>
>> Joe WB9SBD
>> Near Space Sciences
>>
>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5226. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-28 02:16:51 UTC
From: Joe
Topic: 5220 Message: 5226

This was,,, ohh a saturday morning of course about 10 ish, and ohhhh,,
between 1990 and 92 or so,,
The one supervisor was way cool. one we dealt with diddn't give a
crap, but this one loved what we did and wanted ecopies of every pic or
video we got, and when on the phone with him it was often to turn into a
15 minute conversation he was way cool..

Mike Manes wrote:

>Hi Joe,
>
>It musta been a slllllloooooowwwww day at Chicago Center if the controller was
>watching primary returns! Our waiver for heavies includes an exemption from
>flying a reflector, so long as we Igate APRS to aprs.org where they can track
>us in real time. Denver ARTCC only sees transponders, although they can turn
>primary returns on.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>We ahve had two interesting landing locations and one close flyby.
>>
>>First the flyby
>>
>>This was soo cool,, we were making our typical calls to Chicago center
>>and was in conversation with the supervisor,, he said that he was seeing
>>our radar reflector just fine,, That was cool enough but he then said
>>that this is another video flight right? And it was he then said what
>>way is the camera looking, and i described it and he said make it look
>>down, and we did, he tghen says keep watching, keep watching get
>>ready,,,, and all of a sudden we see a DC-10 fly by under the
>>payload!! sooo cool he said it was about 3000 feet below the box at
>>the time.. soo that was way cool,,
>>
>>The other crazy was the landing least wanted,, yiou talk about an
>>interstate median?? I'll raise ya one between two taxi ways at
>>OHARE!!!! now that a spot to land!!!
>>
>>Joe
>>Near Space Sciences
>>
>>BASE wrote:
>>

>>
>>>Dear Joe,
>>>
>>>I agree that the number of strikes is impressive. However, lack of a
>>>balloon plane collision is not surprising. There is a nice article
>>>about the height distribution of bird strikes, Height Distribution of
>>>Birds Recorded by Collisions with Civil Aircraft by RICHARD A. DOLBEER
>>>United States Department of Agriculture, Wildlife Services, Sandusky,
>>>OH 44870, USA
>>>
>>>at this website:
>>>
>>>http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1496&context=icwdm_usdanwrc
>>>
>>>Only 7% of the airstrikes occur above 3500 feet agl. Our balloon
>>>flights typically spend no more than 6-8 minutes below that altitude.
>>>Or you could say that we spend no more than 5% of our flight time in
>>>that altitude domain. Many birds spend in their entire lifetime below
>>>3500 agl!
>>>
>>>Of course the other major factor is that we don't launch that many
>>>balloons, especially directly in front of aircraft that are taking off
>>>or landing in the same immediate area. Many birds enjoy life in the
>>>open fields surrounding airports.
>>>
>>>Consdiering the cross sectional area, it is more likely that a plane
>>>will hit the balloon rather than a payload package.
>>>
>>>Having said all of that, I admit that I always say a quick "Thank you,
>>>Lord" every time we get above 60 kft! Considering that in the 35
>>>flights that BASE has completed, I've already had one Interstate
>>>highway median landing (BASE 31) and one collision with truck
>>>traveling on a highway(BASE 23). The airplane encounter is only a
>>>matter of time!
>>>
>>>Howard
>>>
>>>--- On *Fri, 4/24/09, Joe /<nss@...>/* wrote:
>>>
>>> From: Joe <nss@...>
>>> Subject: [GPSL] Airplane Strikes.
>>> To: GPSL@yahoogroups.com
>>> Date: Friday, April 24, 2009, 11:36 AM
>>>
>>> Hi All,
>>>
>>> Just been listening to WGN this morning and like wow, many people are
>>> always talking about worrying about one of our payloads getting
>>> hit by
>>> an aircraft.

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>>> I know we all then show the history that is Just has never
>>> happened even
>>> the hundreds flown by the weather service!
>>>
>>> But i guess after the Hudson landing someone in congress or
>>> someplacvce
>>> anyway wanted a history of how often do bird hits happen and I was
>>> totally amazed!
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>>> The report says since 1990 there has beed a recorded 89,000 bird
>>> strikes! and probably over 100,000 is a more realistic number when
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>>> reported minor hits are added in.
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>>> and of the 89,000 hits, 2000 were serious enough to have the plane be
>>> concidered as being a total loss!
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>>> WOW!!
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>>> Joe WB9SBD
>>> Near Space Sciences
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5227. Re: [GPSL] Airplane Strikes.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-28 04:26:06 UTC
From: Mike Manes
Topic: 5220 Message: 5227

Yeah, those FAA controllers are just trying to get their jobs done, same as us. And some of 'em are great to work with. Although I've never spent 15 mins on the horn with 'em, one supervisor did call us after the first flight that we I-gated to his internet terminal to rave about how great that was compared to periodic position reports via cell phone. And one of the sector controllers was a ham and came out to one of our launches - the same one where I couldn't get decent cell service from AT&T :=P.

Buckley AFB is just a few miles from DIA, and I expect that they're tracking our primary returns just fine, despite our lack of a purpose-built reflector.

73 de Mike W5VSI

Joe wrote:
>
>
> This was,,, ohh a saturday morning of course about 10 ish, and ohhhh,,
> between 1990 and 92 or so,,
> The one supervisor was way cool. one we dealt with diddn't give a
> crap, but this one loved what we did and wanted ecopies of every pic or
> video we got, and when on the phone with him it was often to turn into a
> 15 minute conversation he was way cool..
>
> Mike Manes wrote:
>> Hi Joe,
>>
>> It musta been a slllllloooooowwwww day at Chicago Center if the controller was
>> watching primary returns! Our waiver for heavies includes an exemption from
>> flying a reflector, so long as we Igate APRS to aprs.org where they can track
>> us in real time. Denver ARTCC only sees transponders, although they can turn
>> primary returns on.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> We ahve had two interesting landing locations and one close flyby.
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>>> First the flyby
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>>> This was soo cool,, we were making our typical calls to Chicago center
>>> and was in conversation with the supervisor,, he said that he was seeing
>>> our radar reflector just fine,, That was cool enough but he then said
>>> that this is another video flight right? And it was he then said what
>>> way is the camera looking, and i described it and he said make it look

>>> down, and we did, he tghen says keep watching, keep watching get
>>> ready,,,, and all of a sudden we see a DC-10 fly by under the
>>> payload!! sooo cool he said it was about 3000 feet below the box at
>>> the time.. soo that was way cool,,
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>>> The other crazy was the landing least wanted,, yiou talk about an
>>> interstate median?? I'll raise ya one between two taxi ways at
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>>> Joe
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>>>
>>> BASE wrote:
>>>
>>>> Dear Joe,
>>>>
>>>> I agree that the number of strikes is impressive. However, lack of a
>>>> balloon plane collision is not surprising. There is a nice article
>>>> about the height distribution of bird strikes, Height Distribution of
>>>> Birds Recorded by Collisions with Civil Aircraft by RICHARD A. DOLBEER
>>>> United States Department of Agriculture, Wildlife Services, Sandusky,
>>>> OH 44870, USA
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>>>> at this website:
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>>>> http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1496&context=icwdm_usdanwrc
>>>>
>>>> Only 7% of the airstrikes occur above 3500 feet agl. Our balloon
>>>> flights typically spend no more than 6-8 minutes below that altitude.
>>>> Or you could say that we spend no more than 5% of our flight time in
>>>> that altitude domain. Many birds spend in their entire lifetime below
>>>> 3500 agl!
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>>>> Of course the other major factor is that we don't launch that many
>>>> balloons, especially directly in front of aircraft that are taking off
>>>> or landing in the same immediate area. Many birds enjoy life in the
>>>> open fields surrounding airports.
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>>>> Consdiering the cross sectional area, it is more likely that a plane
>>>> will hit the balloon rather than a payload package.
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>>>> Having said all of that, I admit that I always say a quick "Thank you,
>>>> Lord" every time we get above 60 kft! Considering that in the 35
>>>> flights that BASE has completed, I've already had one Interstate
>>>> highway median landing (BASE 31) and one collision with truck
>>>> traveling on a highway(BASE 23). The airplane encounter is only a
>>>> matter of time!
>>>>
>>>> Howard
>>>>

>>>> --- On *Fri, 4/24/09, Joe /<nss@...>/* wrote:
>>>>
>>>> From: Joe <nss@...>
>>>> Subject: [GPSL] Airplane Strikes.
>>>> To: GPSL@yahoogroups.com
>>>> Date: Friday, April 24, 2009, 11:36 AM
>>>>
>>>> Hi All,
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>>>> always talking about worrying about one of our payloads getting
>>>> hit by
>>>> an aircraft.
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>>>> I know we all then show the history that is Just has never
>>>> happened even
>>>> the hundreds flown by the weather service!
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>>>> But i guess after the Hudson landing someone in congress or
>>>> someplacvce
>>>> anyway wanted a history of how often do bird hits happen and I was
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>>>> The report says since 1990 there has beed a recorded 89,000 bird
>>>> strikes! and probably over 100,000 is a more realistic number when
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>>>> WOW!!
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>>>> Joe WB9SBD
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5228. Temporary interruption in ARHAB Launch Announcement and Records updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-28 12:11:18 UTC
From: Ralph Wallio, W0RPK
Topic: 5228 Message: 5228

Temporary interruption in ARHAB Launch Announcement and Records updates
---

Our home took a lightning hit on Sunday. My PC, et al, were among the victims. DSL is back online
but for several days I will be using a small old PC that will have me barely on-the-air Internet-wise.

I will forward e-mail launch announcements I receive to Balloon-Sked.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/

5229. Wiki

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-29 16:47:38 UTC
From: L. Paul Verhage
Topic: 1879 Message: 5229

I created a PB Wiki (for my instructional design course) for ARHAB. If you're interested in adding information to the wiki, let me know. I don't want to open the editing to the public, but will add anyone who expresses an interest.

It's just started and you'll find it at arhab.pbworks.com

--
Onwards and Upwards,
Paul

5230. Several lots of 100g weather balloons on eBay now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-04-30 03:41:21 UTC
From: Mark Conner
Topic: 5230 Message: 5230

There is a fairly new seller on eBay selling 10 100g red weather balloons for $35.50 which includes shipping. Expiration date on these balloons is March 08, not too bad. Anyone looking for small balloons for flights, demos, etc, can't go far wrong with this. Paypal is required though.

Also, a couple of other sellers with 30g pilot balloons for around the same price each, occasionally less if you get lucky on a bid. Also with not-terribly-old expiration dates.

A few weeks back I was able to snag two 1000g balloons for around $30 each, also with expiration dates of only a year old. It's certainly worth a weekly trip to eBay just to see what's on there. A couple years ago I got 10 1200g balloons at a heckuva deal.

73 de Mark N9XTN

5231. Balloon fail

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 01:52:12 UTC
From: Mark Conner
Topic: 5231 Message: 5231

The title is "Marriage Proposal Fail" but I think "Balloon Fail" is more appropriate for this group.

http://www.youtube.com/watch?v=bKDRQTEDMbQ

Now if he had a tracker or DF beacon aboard.....

73 de Mark N9XTN

5232. Re: [GPSL] Balloon fail

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 05:28:28 UTC
From: Mike Manes
Topic: 5231 Message: 5232

Hmmmph ... the cheapskate's ring was too light.

Mark Conner wrote:
>
>
> The title is "Marriage Proposal Fail" but I think "Balloon Fail" is more
> appropriate for this group.
>
> http://www.youtube.com/watch?v=bKDRQTEDMbQ
>
> Now if he had a tracker or DF beacon aboard.....
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5233. Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 12:58:06 UTC
From: Mark Conner
Topic: 5233 Message: 5233

http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.4.9.1

[this should be authoritative - not sure I trust a flight-sim website for the latest info..... :)]

The free balloon exemptions are still in place. It appears there were other changes to FAR Part 101 made in late 2008, but not affecting ARHAB. The other language for non-exempt balloons has not been changed since 1974 according to the GPO website.

73 de Mark N9XTN

On Thu, Apr 30, 2009 at 18:12, Pete Lilja <plilja@...> wrote:

>
>
> I fly high powered rockets in addition to an interest in HABs. There was a
> recent change in FAR 101 regarding rockets and the FAA. A fellow HP
> rocketeer and HAB enthusiast was looking over the new regs and noticed
> some seeming differences in FAR 101 regarding unmanned balloons.
>
> The text of pps. 8 and 9 are copied below. Are these new regs we need to
> be concerned about? Or are those payloads under 6 lbs. still exempt? Is
> this new stuff (as it is with high power rockets)?
>
> *
>
> Subpart D—Unmanned Free Balloons
>
> § 101.31 Applicability.
> *
>
> This subpart applies to the operation of unmanned free balloons. However, a
> person operating an unmanned free balloon within a restricted area must
> comply only with §101.33 (d) and (e) and with any additional limitations
> that are imposed by the using or controlling agency, as appropriate.
> *
>
> § 101.33 Operating limitations.
> *
>
> No person may operate an unmanned free balloon— (a) Unless otherwise
> authorized by ATC, below 2,000 feet above the surface within the lateral
> boundaries of the surface areas of Class B, Class C, Class D, or Class E
> airspace designated for an airport; (b) At any altitude where there are

> clouds or obscuring phenomena of more than five-tenths coverage; (c) At any
> altitude below 60,000 feet standard pressure altitude where the horizontal
> visibility is less than five miles;
>
> (d) During the first 1,000 feet of ascent, over a congested area of a city,
> town, or settlement or an open-air assembly of persons not associated with
> the operation; or
>
> (e) In such a manner that impact of the balloon, or part thereof including
> its payload, with the surface creates a hazard to persons or property not
> associated with the operation. [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as
> amended by Amdt. 101–5, 56 FR 65662, Dec. 17, 1991]
> *
>
> § 101.35 Equipment and marking requirements.
> *
>
> (a) No person may operate an unmanned free balloon unless— (1) It is
> equipped with at least two payload cut-down systems or devices that operate
> independently of each other; (2) At least two methods, systems, devices, or
> combinations thereof, that function independently of each other, are
> employed for terminating the flight of the balloon envelope; and (3) The
> balloon envelope is equipped with a radar reflective device(s) or material
> that will present an echo to surface radar operating in the 200 MHz to 2700
> MHz frequency range. The operator shall activate the appropriate devices
> required by paragraphs (a) (1) and (2) of this section when weather
> conditions are less than those prescribed for operation under this subpart,
> or if a malfunction or any other reason makes the further operation
> hazardous to other air traffic or to persons and property on the surface.
> (b) No person may operate an unmanned free balloon below 60,000 feet
> standard pressure altitude between sunset and sunrise (as corrected to the
> altitude of operation) unless the balloon and its attachments and payload,
> whether or not they become separated during the operation, are equipped with
> lights that are visible for at least 5 miles and have a flash frequency of
> at least 40, and not more than 100, cycles per minute. (c) No person may
> operate an unmanned free balloon that is equipped with a trailing antenna
> that requires an impact force of more than 50 pounds to break it at any
> point, unless the antenna has colored pennants or streamers that are
> attached at not more than 50 foot intervals and that are visible for at
> least one mile. (d) No person may operate between sunrise and sunset an
> unmanned free balloon that is equipped with a suspension device (other than
> a highly conspicuously colored open parachute) more than 50 feet along,
> unless the suspension device is colored in alternate bands of high
> conspicuity colors or has colored pennants or streamers attached which are
> visible for at least one mile. (Sec. 6(c), Department of Transportation Act
> (49 U.S.C. 1655(c))) [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as amended by
> Amdt. 101–2, 32 FR 5254, Mar. 29, 1967; Amdt. 101–4, 39 FR 22252, June 21,
> 1974]
> *
>

> § 101.37 Notice requirements.
> *
>
> (a)
> *Prelaunch notice: *Except as provided in paragraph (b) of this section,
> no person may operate an unmanned free balloon unless, within 6 to 24 hours
> before beginning the operation, he gives the following information to the
> FAA ATC facility that is nearest to the place of intended operation: (1) The
> balloon identification. (2) The estimated date and time of launching,
> amended as necessary to remain within plus or minus 30 minutes. (3) The
> location of the launching site.
>
>
>
>

5234. Re: [GPSL] Balloon fail

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 12:59:05 UTC
From: L. Paul Verhage
Topic: 5231 Message: 5234

Opps!!!!

On Fri, May 1, 2009 at 12:28 AM, Mike Manes <mrmanes@...> wrote:

> Hmmmph ... the cheapskate's ring was too light.
>
> Mark Conner wrote:
> >
> >
> > The title is "Marriage Proposal Fail" but I think "Balloon Fail" is more
> > appropriate for this group.
> >
> > http://www.youtube.com/watch?v=bKDRQTEDMbQ
> >
> > Now if he had a tracker or DF beacon aboard.....
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> > 73 de Mark N9XTN
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

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Onwards and Upwards,
Paul

5235. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 15:13:06 UTC
From: Dan Bowen
Topic: 5233 Message: 5235

Well that's good news, but it does bring to mind the possibility that
it could happen. Perhaps we should consider forming an association
like the NAR or AOPA to provide a unified political representation.
AOPA for that matter is a tremendous force in swaying FAA regulation.
It would behoove us to ensure that AOPA is on our side.

Thanks,
Dan

On May 1, 2009, at 8:58 AM, Mark Conner <mconner1@...> wrote:

>
>
> http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.
15&idno=14#14:2.0.1.3.15.4.9.1
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> [this should be authoritative - not sure I trust a flight-sim
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> The free balloon exemptions are still in place. It appears there
> were other changes to FAR Part 101 made in late 2008, but not
> affecting ARHAB. The other language for non-exempt balloons has not
> been changed since 1974 according to the GPO website.
>
> 73 de Mark N9XTN
>
> On Thu, Apr 30, 2009 at 18:12, Pete Lilja <plilja@...> wrote:
>
>
> I fly high powered rockets in addition to an interest in HABs.
> There was a recent change in FAR 101 regarding rockets and the FAA.
> A fellow HP rocketeer and HAB enthusiast was looking over the new
> regs and noticed some seeming differences in FAR 101 regarding
> unmanned balloons.
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> The text of pps. 8 and 9 are copied below. Are these new regs we
> need to be concerned about? Or are those payloads under 6 lbs.
> still exempt? Is this new stuff (as it is with high power rockets)?
>
> Subpart D—Unmanned Free Balloons
>
> § 101.31 Applicability.
>
> This subpart applies to the operation of unmanned free balloons.
> However, a person operating an unmanned free balloon within a
> restricted area must comply only with §101.33 (d) and (e) and with a

> ny additional limitations that are imposed by the using or controlli
> ng agency, as appropriate.
>
> § 101.33 Operating limitations.
>
> No person may operate an unmanned free balloon— (a) Unless otherwise
> authorized by ATC, below 2,000 feet above the surface within the la
> teral boundaries of the surface areas of Class B, Class C, Class D,
> or Class E airspace designated for an airport; (b) At any altitude w
> here there are clouds or obscuring phenomena of more than five-tenth
> s coverage; (c) At any altitude below 60,000 feet standard pressure
> altitude where the horizontal visibility is less than five miles;
>
> (d) During the first 1,000 feet of ascent, over a congested area of
> a city, town, or settlement or an open-air assembly of persons not
> associated with the operation; or
>
> (e) In such a manner that impact of the balloon, or part thereof
> including its payload, with the surface creates a hazard to persons
> or property not associated with the operation. [Doc. No. 1457, 29 FR
> 47, Jan. 3, 1964, as amended by Amdt. 101–5, 56 FR 65662, Dec. 17, 1
> 991]
>
> § 101.35 Equipment and marking requirements.
>
> (a) No person may operate an unmanned free balloon unless— (1) It is
> equipped with at least two payload cut-down systems or devices that
> operate independently of each other; (2) At least two methods, syst
> ems, devices, or combinations thereof, that function independently o
> f each other, are employed for terminating the flight of the balloon
> envelope; and (3) The balloon envelope is equipped with a radar ref
> lective device(s) or material that will present an echo to surface r
> adar operating in the 200 MHz to 2700 MHz frequency range. The opera
> tor shall activate the appropriate devices required by paragraphs (a
>) (1) and (2) of this section when weather conditions are less than
> those prescribed for operation under this subpart, or if a malfuncti
> on or any other reason makes the further operation hazardous to othe
> r air traffic or to persons and property on the surface. (b) No pers
> on may operate an unmanned free balloon below 60,000 feet standard p
> ressure altitude between sunset and sunrise (as corrected to the alt
> itude of operation) unless the balloon and its attachments and paylo
> ad, whether or not they become separated during the operation, are e
> quipped with lights that are visible for at least 5 miles and have a
> flash frequency of at least 40, and not more than 100, cycles per m
> inute. (c) No person may operate an unmanned free balloon that is eq
> uipped with a trailing antenna that requires an impact force of more
> than 50 pounds to break it at any point, unless the antenna has col
> ored pennants or streamers that are attached at not more than 50 foo
> t intervals and that are visible for at least one mile. (d) No perso
> n may operate between sunrise and sunset an unmanned free balloon th

> at is equipped with a suspension device (other than a highly conspic
> uously colored open parachute) more than 50 feet along, unless the s
> uspension device is colored in alternate bands of high conspicuity c
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> t (49 U.S.C. 1655(c))) [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as am
> ended by Amdt. 101-2, 32 FR 5254, Mar. 29, 1967; Amdt. 101-4, 39
> FR 22252, June 21, 1974]
>
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>
> (a)
>
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> within 6 to 24 hours before beginning the operation, he gives the
> following information to the FAA ATC facility that is nearest to the
> place of intended operation: (1) The balloon identification. (2) The
> estimated date and time of launching, amended as necessary to remain
> within plus or minus 30 minutes. (3) The location of the launching
> site.
>
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>
> Messages in this topic (1) Reply (via web post) | Start a new topic
> Messages | Files | Photos | Links | Database | Polls | Members |
> Calendar
>
> Change settings via the Web (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest | Switch
> format to Traditional
> Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe
> RECENT ACTIVITY
> 1
> New Members
> Visit Your Group
> Give Back
> Yahoo! for Good
>
> Get inspired
>
> by a good cause.
>
> Y! Toolbar
> Get it Free!
>
> easy 1-click access
>
> to your groups.

5236. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 15:41:43 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5236

An organization like that would need big stake holders like research. We'd
be small fries in that pond.
Paul

On Fri, May 1, 2009 at 10:13 AM, Dan Bowen <dbowen1@...> wrote:

>
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> could happen. Perhaps we should consider forming an association like the
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14:2.0.1.3.15.4.9.1
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> according to the GPO website.
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>>
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>> a person operating an unmanned free balloon within a restricted area must
>> comply only with §101.33 (d) and (e) and with any additional limitations
>> that are imposed by the using or controlling agency, as appropriate.
>> *
>>
>> § 101.33 Operating limitations.
>> *
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>> No person may operate an unmanned free balloon— (a) Unless otherwise
>> authorized by ATC, below 2,000 feet above the surface within the lateral
>> boundaries of the surface areas of Class B, Class C, Class D, or Class E
>> airspace designated for an airport; (b) At any altitude where there are
>> clouds or obscuring phenomena of more than five-tenths coverage; (c) At any
>> altitude below 60,000 feet standard pressure altitude where the horizontal
>> visibility is less than five miles;
>>
>> (d) During the first 1,000 feet of ascent, over a congested area of a
>> city, town, or settlement or an open-air assembly of persons not associated
>> with the operation; or
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>> (e) In such a manner that impact of the balloon, or part thereof including
>> its payload, with the surface creates a hazard to persons or property not
>> associated with the operation. [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as
>> amended by Amdt. 101–5, 56 FR 65662, Dec. 17, 1991]
>> *
>>
>> § 101.35 Equipment and marking requirements.
>> *
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>> (a) No person may operate an unmanned free balloon unless— (1) It is
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>> independently of each other; (2) At least two methods, systems, devices, or
>> combinations thereof, that function independently of each other, are
>> employed for terminating the flight of the balloon envelope; and (3) The
>> balloon envelope is equipped with a radar reflective device(s) or material
>> that will present an echo to surface radar operating in the 200 MHz to 2700
>> MHz frequency range. The operator shall activate the appropriate devices
>> required by paragraphs (a) (1) and (2) of this section when weather
>> conditions are less than those prescribed for operation under this subpart,
>> or if a malfunction or any other reason makes the further operation
>> hazardous to other air traffic or to persons and property on the surface.

>> (b) No person may operate an unmanned free balloon below 60,000 feet
>> standard pressure altitude between sunset and sunrise (as corrected to the
>> altitude of operation) unless the balloon and its attachments and payload,
>> whether or not they become separated during the operation, are equipped with
>> lights that are visible for at least 5 miles and have a flash frequency of
>> at least 40, and not more than 100, cycles per minute. (c) No person may
>> operate an unmanned free balloon that is equipped with a trailing antenna
>> that requires an impact force of more than 50 pounds to break it at any
>> point, unless the antenna has colored pennants or streamers that are
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>> least one mile. (d) No person may operate between sunrise and sunset an
>> unmanned free balloon that is equipped with a suspension device (other than
>> a highly conspicuously colored open parachute) more than 50 feet along,
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>> conspicuity colors or has colored pennants or streamers attached which are
>> visible for at least one mile. (Sec. 6(c), Department of Transportation Act
>> (49 U.S.C. 1655(c))) [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as amended by
>> Amdt. 101–2, 32 FR 5254, Mar. 29, 1967; Amdt. 101–4, 39 FR 22252, June 21,
>> 1974]
>> *
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>> § 101.37 Notice requirements.
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>> (a)
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>> no person may operate an unmanned free balloon unless, within 6 to 24 hours
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>>
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>>
> Messages in this topic
> <http://groups.yahoo.com/group/GPSL/message/5233;_ylc=X3oDMTM0NDQxaTRlBF9TAzk3MzU5NzE0BG
dycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMx
MjQxMTgyNzU1BHRwY0lkAzUyMzM->
> (1) Reply (via web post)
> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwdWthZnBnBF9TAzk3MzU5NzE0BGdycElkAz
Y3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjQxMTgy
NzU1?act=reply&messageNum=5233>|
> Start a new topic
> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlNXR0ZG52BF9TAzk3MzU5NzE0BGdycElkAz
Y3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI0MTE4Mjc1NQ-->
> Recent Activity
>
> - 1
> New Members<http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJmY2ViOXZjBF9TAzk3MzU5

NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNDExODI3NTQ->
>
> Visit Your Group
> <http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlbm84dnE3BF9TAzk3MzU5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI0MTE4Mjc1NA-->
> Give Back
>
> Yahoo! for Good<http://us.lrd.yahoo.com/_ylc=X3oDMTJtYTVyODcyBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNjc2NDQxNgRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjQxMTgyNzU0;_ylg=1/SIG=11314uv3k/**http%3A//brand.yahoo.com/forgood>
>
> Get inspired
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> by a good cause.
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>
> easy 1-click access
>
> to your groups.
>
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>

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Onwards and Upwards,
Paul

5237. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 15:46:47 UTC
From: Joe
Topic: 5233 Message: 5237

exactly,,

Like our dozen or so groups out there, what clout do we have as to
compared to the thousands of pilots,

Nothing at all they all would just laugh at us, even if we had
involved EVEY balloon research group there is, how may people would that
end up with. the faa would just laugh at us.

L. Paul Verhage wrote:

>
>
> An organization like that would need big stake holders like research.
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> Paul
>
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>> where the horizontal visibility is less than five miles;
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>> (d) During the first 1,000 feet of ascent, over a congested
>> area of a city, town, or settlement or an open-air assembly
>> of persons not associated with the operation; or
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>> <http://groups.yahoo.com/group/GPSL/message/5233;_ylc=X3oDMTM0NDQxaTRlBF9TAzk3MzU5NzE0B
GdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQM
xMjQxMTgyNzU1BHRwY0lkAzUyMzM->(1)
>> Reply (via web post)
>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwdWthZnBnBF9TAzk3MzU5NzE0BGdycElkA
zY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjQxMTg
yNzU1?act=reply&messageNum=5233>|
>> Start a new topic
>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlNXR0ZG52BF9TAzk3MzU5NzE0BGdycElkA
zY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI0MTE4Mjc1NQ-->
>> Recent Activity
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>> *
>> 1
>> New Members
>> <http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJmY2ViOXZjBF9TAzk3MzU5NzE0BGdycE
lkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNDExODI3NTQ->
>>
>> Visit Your Group
>> <http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlbm84dnE3BF9TAzk3MzU5NzE0BGdycElkAzY3Nj
Q0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI0MTE4Mjc1NA-->
>> Give Back
>>
>> Yahoo! for Good
>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtYTVyODcyBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNjc2NDQxN
gRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjQxMTgyNzU0;_ylg=1/SIG=113
14uv3k/**http%3A//brand.yahoo.com/forgood>
>>
>> Get inspired
>>
>> by a good cause.
>>
>> Y! Toolbar
>>
>> Get it Free!
>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvOGI1Z3ZuBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNjc2NDQxN
gRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNDExODI3NTQ-;_ylg=1/SIG
=11c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps>
>>
>> easy 1-click access
>>

>> to your groups.
>>
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> --
> Onwards and Upwards,
> Paul
>
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>
>--
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.323 / Virus Database: 270.12.5/2083 - Release Date: 04/27/09 18:00:00
>
>
>

5238. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:15:02 UTC
From: Pete Lilja
Topic: 5233 Message: 5238

I'd agree, Dan. Often times these new regs are put in place and those that it effects find out too late. In addition to the NAR http://www.nar.org/ there is also the Tripoli Rocketry Association http://www.tripoli.org/ Both organizations keep up on watching new legislation that could impact the hobby. I am quite certain that TRA worked with the FAA on these new FAR101 regs.and made suggestions to make them more realistic and workable yet still meet the FAA's needs BEFORE they became law.

That being said a national (or international) HAB group would be very nice to have as a resource and a watchdog. But it is much easier said than done to create one.

I'd join the HAB Association of *Whatever*.

Pete
KCØGPB

---- Original Message -----
From: Dan Bowen
To: Gpsl
Cc: GPSL list
Sent: Friday, May 01, 2009 10:13 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Well that's good news, but it does bring to mind the possibility that it could happen. Perhaps we should consider forming an association like the NAR or AOPA to provide a unified political representation. AOPA for that matter is a tremendous force in swaying FAA regulation. It would behoove us to ensure that AOPA is on our side.

Thanks,
Dan

.

5239. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:19:57 UTC
From: Pete Lilja
Topic: 5233 Message: 5239

I'm not so sure. TRA has only about 3000 members. Yes, probably larger than the HAB population but still a group with a common interest. I'd envision a HAB association as more of a resource for people to learn and share about HABing with a board of directors that would speak for the group in the interest of its mission. It doesn't need to be a big political force - simply a voice.

Pete
KCØGPB

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Sent: Friday, May 01, 2009 10:46 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

exactly,,

Like our dozen or so groups out there, what clout do we have as to compared to the thousands of pilots,

Nothing at all they all would just laugh at us, even if we had involved EVEY balloon research group there is, how may people would that end up with. the faa would just laugh at us.

L. Paul Verhage wrote:

An organization like that would need big stake holders like research. We'd be small fries in that pond.
Paul

On Fri, May 1, 2009 at 10:13 AM, Dan Bowen <dbowen1@...> wrote:

Well that's good news, but it does bring to mind the possibility that it could happen. Perhaps we should consider forming an association like the NAR or AOPA to provide a unified political representation. AOPA for that matter is a tremendous force in swaying FAA regulation. It would behoove us to ensure that AOPA is on our side.

Thanks,
Dan

On May 1, 2009, at 8:58 AM, Mark Conner <mconner1@...> wrote:

http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.4.9.1

[this should be authoritative - not sure I trust a flight-sim website for the latest info..... :)]

The free balloon exemptions are still in place. It appears there were other changes to FAR Part 101 made in late 2008, but not affecting ARHAB. The other language for non-exempt balloons has not been changed since 1974 according to the GPO website.

73 de Mark N9XTN

On Thu, Apr 30, 2009 at 18:12, Pete Lilja <plilja@...> wrote:

I fly high powered rockets in addition to an interest in HABs. There was a recent change in FAR 101 regarding rockets and the FAA. A fellow HP rocketeer and HAB enthusiast was looking over the new regs and noticed some seeming differences in FAR 101 regarding unmanned balloons.

The text of pps. 8 and 9 are copied below. Are these new regs we need to be concerned about? Or are those payloads under 6 lbs. still exempt? Is this new stuff (as it is with high power rockets)?

Subpart D-Unmanned Free Balloons

§ 101.31 Applicability.

This subpart applies to the operation of unmanned free balloons. However, a person operating an unmanned free balloon within a restricted area must comply only with §101.33 (d) and (e) and with any additional limitations that are imposed by the using or controlling agency, as appropriate.

§ 101.33 Operating limitations.

No person may operate an unmanned free balloon- (a) Unless otherwise authorized by ATC, below 2,000 feet above the surface within the lateral boundaries of the surface areas of Class B, Class C, Class D, or Class E airspace designated for an airport; (b) At any altitude where there are clouds or obscuring phenomena of more than five-tenths coverage; (c) At any altitude below 60,000 feet standard pressure altitude where the horizontal visibility is less than five miles;

(d) During the first 1,000 feet of ascent, over a congested area of a city, town, or settlement or an open-air assembly of persons not associated with the operation; or

(e) In such a manner that impact of the balloon, or part thereof including its payload, with the surface creates a hazard to persons or property not associated with the operation. [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as amended by Amdt. 101-5, 56 FR 65662, Dec. 17, 1991]

§ 101.35 Equipment and marking requirements.

(a) No person may operate an unmanned free balloon unless- (1) It is equipped with at least two payload cut-down systems or devices that operate independently of each other; (2) At least two methods, systems, devices, or combinations thereof, that function independently of each other, are employed for terminating the flight of the balloon envelope; and (3) The balloon envelope is equipped with a radar reflective device(s) or material that will present an echo to surface radar operating in the 200 MHz to 2700 MHz frequency range. The operator shall activate the appropriate devices required by paragraphs (a) (1) and (2) of this section when weather conditions are less than those prescribed for operation under this subpart, or if a malfunction or any other reason makes the further operation hazardous

to other air traffic or to persons and property on the surface. (b) No person may operate an unmanned free balloon below 60,000 feet standard pressure altitude between sunset and sunrise (as corrected to the altitude of operation) unless the balloon and its attachments and payload, whether or not they become separated during the operation, are equipped with lights that are visible for at least 5 miles and have a flash frequency of at least 40, and not more than 100, cycles per minute. (c) No person may operate an unmanned free balloon that is equipped with a trailing antenna that requires an impact force of more than 50 pounds to break it at any point, unless the antenna has colored pennants or streamers that are attached at not more than 50 foot intervals and that are visible for at least one mile. (d) No person may operate between sunrise and sunset an unmanned free balloon that is equipped with a suspension device (other than a highly conspicuously colored open parachute) more than 50 feet along, unless the suspension device is colored in alternate bands of high conspicuity colors or has colored pennants or streamers attached which are visible for at least one mile. (Sec. 6(c), Department of Transportation Act (49 U.S.C. 1655(c))) [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as amended by Amdt. 101-2, 32 FR 5254, Mar. 29, 1967; Amdt. 101-4, 39 FR 22252, June 21, 1974]

§ 101.37 Notice requirements.

(a)

Prelaunch notice: Except as provided in paragraph (b) of this section, no person may operate an unmanned free balloon unless, within 6 to 24 hours before beginning the operation, he gives the following information to the FAA ATC facility that is nearest to the place of intended operation: (1) The balloon identification. (2) The estimated date and time of launching, amended as necessary to remain within plus or minus 30 minutes. (3) The location of the launching site.

Messages in this topic (1) Reply (via web post) | Start a new topic
Recent Activity
a.. 1
New Members
Visit Your Group
Give Back
Yahoo! for Good

Get inspired

by a good cause.

Y! Toolbar
Get it Free!

easy 1-click access

to your groups.

--
Onwards and Upwards,
Paul

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.323 / Virus Database: 270.12.5/2083 - Release Date: 04/27/09 18:00:00

5240. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:19:41 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5240

I think a national organization would be neat, but would be limited in power. Perhaps it would do things like bulk purchases, conferences, newsletters, maintain records, etc. Basically it would be what we are now.

Paul

On Fri, May 1, 2009 at 11:15 AM, Pete Lilja <plilja@...> wrote:

> □
>
> I'd agree, Dan. Often times these new regs are put in place and those that
> it effects find out too late. In addition to the NAR http://www.nar.org/ there
> is also the Tripoli Rocketry Association http://www.tripoli.org/ Both
> organizations keep up on watching new legislation that could impact the
> hobby. I am quite certain that TRA worked with the FAA on these new FAR101
> regs.and made suggestions to make them more realistic and workable yet still
> meet the FAA's needs BEFORE they became law.
>
> That being said a national (or international) HAB group would be very nice
> to have as a resource and a watchdog. But it is much easier said than done
> to create one.
>
> I'd join the HAB Association of *Whatever*.
>
> Pete
> KCØGPB
>
> ---- Original Message -----
>
> *From:* Dan Bowen <dbowen1@mac.com>
> *To:* Gpsl <gpsl@yahoogroups.com>
> *Cc:* GPSL list <GPSL@yahoogroups.com>
> *Sent:* Friday, May 01, 2009 10:13 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>
> Well that's good news, but it does bring to mind the possibility that it
> could happen. Perhaps we should consider forming an association like the
> NAR or AOPA to provide a unified political representation. AOPA for that
> matter is a tremendous force in swaying FAA regulation. It would behoove us
> to ensure that AOPA is on our side.
>
> Thanks,
> Dan
>
> .

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>

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Onwards and Upwards,
Paul

5241. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:30:54 UTC
From: John Nordlie
Topic: 5233 Message: 5241

I think one of the big problems is that there is really no industry that is dedicated to AHAB. Sure, there are APRS tracker and balloon manufacturers out there, but we're not their biggest customers, where as companies like Aerotech have a lot riding on how easy it is for their customers to pursue their hobby.

On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:
> □
>
> I'd agree, Dan. Often times these new regs are put in place and those
> that it effects find out too late. In addition to the NAR
> http://www.nar.org/ there is also the Tripoli Rocketry
> Association http://www.tripoli.org/ Both organizations keep up on
> watching new legislation that could impact the hobby. I am quite
> certain that TRA worked with the FAA on these new FAR101 regs.and made
> suggestions to make them more realistic and workable yet still meet
> the FAA's needs BEFORE they became law.
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> than done to create one.
>
> I'd join the HAB Association of *Whatever*.
>
> Pete
> KCØGPB
>
> ---- Original Message -----
> From: Dan Bowen
> To: Gpsl
> Cc: GPSL list
> Sent: Friday, May 01, 2009 10:13 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>
>
> Well that's good news, but it does bring to mind the
> possibility that it could happen. Perhaps we should consider
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> unified political representation. AOPA for that matter is a
> tremendous force in swaying FAA regulation. It would behoove
> us to ensure that AOPA is on our side.
>
> Thanks,

> Dan
>
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> .
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>
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
University of North Dakota

5242. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:38:18 UTC
From: Joe
Topic: 5233 Message: 5242

True,

But I'd join if there was something that would help us all.

Joe
Near Space Sciences

L. Paul Verhage wrote:

>
>
> I think a national organization would be neat, but would be limited in
> power. Perhaps it would do things like bulk purchases, conferences,
> newsletters, maintain records, etc. Basically it would be what we are
> now.
>
> Paul
>
> On Fri, May 1, 2009 at 11:15 AM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
>
> I'd agree, Dan. Often times these new regs are put in place and
> those that it effects find out too late. In addition to the NAR
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> easier said than done to create one.
>
> I'd join the HAB Association of *Whatever*.
>
> Pete
> KC?GPB
>
> ---- Original Message -----
>
> From: Dan Bowen <mailto:dbowen1@...>
> To: Gpsl <mailto:gpsl@yahoogroups.com>
> Cc: GPSL list <mailto:GPSL@yahoogroups.com>

> Sent: Friday, May 01, 2009 10:13 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>
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> Paul
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>Checked by AVG - www.avg.com
>Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date: 05/01/09 06:17:00
>
>
>

5243. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:39:03 UTC
From: Joe
Topic: 5233 Message: 5243

yeah that's at least a factor of ten in possible membership at best

Pete Lilja wrote:

>
>
> I'm not so sure. TRA has only about 3000 members. Yes, probably
> larger than the HAB population but still a group with a common
> interest. I'd envision a HAB association as more of a resource for
> people to learn and share about HABing with a board of directors that
> would speak for the group in the interest of its mission. It doesn't
> need to be a big political force - simply a voice.
>
> Pete
> KC?GPB
>
>
> ----- Original Message -----
> From: Joe <mailto:nss@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Friday, May 01, 2009 10:46 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> exactly,,
>
> Like our dozen or so groups out there, what clout do we have as
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>> On May 1, 2009, at 8:58 AM, Mark Conner <mconner1@...
>> <mailto:mconner1@...>> wrote:
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>>> http://ecfr
>>> <http://ecfr/>.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0
.1.3.15&idno=14#14:2.0.1.3.15.4.9.1
>>>
>>> [this should be authoritative - not sure I trust a
>>> flight-sim website for the latest info..... :)]
>>>
>>> The free balloon exemptions are still in place. It appears
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>>> 73 de Mark N9XTN
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>>> new regs we need to be concerned about? Or are those
>>> payloads under 6 lbs. still exempt? Is this new stuff
>>> (as it is with high power rockets)?
>>>
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>>> Subpart D--Unmanned Free Balloons
>>>
>>> ? 101.31 Applicability.
>>>
>>> This subpart applies to the operation of unmanned free

>>> balloons. However, a person operating an unmanned free
>>> balloon within a restricted area must comply only with
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>>> ? 101.33 Operating limitations.
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>>> Unless otherwise authorized by ATC, below 2,000 feet
>>> above the surface within the lateral boundaries of the
>>> surface areas of Class B, Class C, Class D, or Class E
>>> airspace designated for an airport; (b) At any altitude
>>> where there are clouds or obscuring phenomena of more
>>> than five-tenths coverage; (c) At any altitude below
>>> 60,000 feet standard pressure altitude where the
>>> horizontal visibility is less than five miles;
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>>> (d) During the first 1,000 feet of ascent, over a
>>> congested area of a city, town, or settlement or an
>>> open-air assembly of persons not associated with the
>>> operation; or
>>>
>>> (e) In such a manner that impact of the balloon, or part
>>> thereof including its payload, with the surface creates
>>> a hazard to persons or property not associated with the
>>> operation. [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as
>>> amended by Amdt. 101-5, 56 FR 65662, Dec. 17, 1991]
>>>
>>> ? 101.35 Equipment and marking requirements.
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>>> (a) No person may operate an unmanned free balloon
>>> unless-- (1) It is equipped with at least two payload
>>> cut-down systems or devices that operate independently
>>> of each other; (2) At least two methods, systems,
>>> devices, or combinations thereof, that function
>>> independently of each other, are employed for
>>> terminating the flight of the balloon envelope; and (3)
>>> The balloon envelope is equipped with a radar reflective
>>> device(s) or material that will present an echo to
>>> surface radar operating in the 200 MHz to 2700 MHz
>>> frequency range. The operator shall activate the
>>> appropriate devices required by paragraphs (a) (1) and
>>> (2) of this section when weather conditions are less
>>> than those prescribed for operation under this subpart,
>>> or if a malfunction or any other reason makes the
>>> further operation hazardous to other air traffic or to
>>> persons and property on the surface. (b) No person may
>>> operate an unmanned free balloon below 60,000 feet
>>> standard pressure altitude between sunset and sunrise

>>> (as corrected to the altitude of operation) unless the
>>> balloon and its attachments and payload, whether or not
>>> they become separated during the operation, are equipped
>>> with lights that are visible for at least 5 miles and
>>> have a flash frequency of at least 40, and not more than
>>> 100, cycles per minute. (c) No person may operate an
>>> unmanned free balloon that is equipped with a trailing
>>> antenna that requires an impact force of more than 50
>>> pounds to break it at any point, unless the antenna has
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>>> colored pennants or streamers attached which are visible
>>> for at least one mile. (Sec. 6(c), Department of
>>> Transportation Act (49 U.S.C. 1655(c))) [Doc. No. 1457,
>>> 29 FR 47, Jan. 3, 1964, as amended by Amdt. 101-2, 32 FR
>>> 5254, Mar. 29, 1967; Amdt. 101-4, 39 FR 22252, June 21,
>>> 1974]
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>>> ? 101.37 Notice requirements.
>>>
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>>> Prelaunch notice: Except as provided in paragraph (b) of
>>> this section, no person may operate an unmanned free
>>> balloon unless, within 6 to 24 hours before beginning
>>> the operation, he gives the following information to the
>>> FAA ATC facility that is nearest to the place of
>>> intended operation: (1) The balloon identification. (2)
>>> The estimated date and time of launching, amended as
>>> necessary to remain within plus or minus 30 minutes. (3)
>>> The location of the launching site.
>>>
>>>
>>>
>>> Messages in this topic
>>> <http://groups.yahoo.com/group/GPSL/message/5233;_ylc=X3oDMTM0NDQxaTRlBF9TAzk3MzU5NzE0
BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQ
MxMjQxMTgyNzU1BHRwY0lkAzUyMzM->(1)
>>> Reply (via web post)
>>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwdWthZnBnBF9TAzk3MzU5NzE0BGdycElk
AzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjQxMT
gyNzU1?act=reply&messageNum=5233>|
>>> Start a new topic
>>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlNXR0ZG52BF9TAzk3MzU5NzE0BGdycElk

AzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI0MTE4Mjc1NQ-->
>>> Recent Activity
>>>
>>> *
>>> 1
>>> New Members
>>> <http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJmY2ViOXZjBF9TAzk3MzU5NzE0BGdyc
ElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNDExODI3NTQ->
>>>
>>> Visit Your Group
>>> <http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlbm84dnE3BF9TAzk3MzU5NzE0BGdycElkAzY3N
jQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI0MTE4Mjc1NA-->
>>> Give Back
>>>
>>> Yahoo! for Good
>>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtYTVyODcyBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNjc2NDQx
NgRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjQxMTgyNzU0;_ylg=1/SIG=11
314uv3k/**http%3A//brand.yahoo.com/forgood>
>>>
>>> Get inspired
>>>
>>> by a good cause.
>>>
>>> Y! Toolbar
>>>
>>> Get it Free!
>>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvOGI1Z3ZuBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNjc2NDQx
NgRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNDExODI3NTQ-;_ylg=1/SI
G=11c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps>
>>>
>>> easy 1-click access
>>>
>>> to your groups.
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>> --
>> Onwards and Upwards,
>> Paul
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>>No virus found in this incoming message.
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>
>
>

5244. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:40:52 UTC
From: Pete Lilja
Topic: 5233 Message: 5244

That may be true. But how does that change the desirability of a HAB organization? Jugglers have the International Jugglers' Association http://www.juggle.org/ simply for the common interest of the group, as a resource, a magazine and to be the group that organizes their annual festival. Many groups have organizations to bring together those with a common interest - not just to watch for regulations.

Aerotech as a company doesn't belong to TRA. It does, yes, have a vested interest in people learning about rocketry but TRA would exist without Aerotech (or any other manufacturer).

Pete

----- Original Message -----
From: John Nordlie
To: GPSL@yahoogroups.com
Sent: Friday, May 01, 2009 11:30 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

I think one of the big problems is that there is
really no industry that is dedicated to AHAB. Sure, there are
APRS tracker and balloon manufacturers out there, but we're not
their biggest customers, where as companies like Aerotech have
a lot riding on how easy it is for their customers to pursue their
hobby.

On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:
> □
>
> I'd agree, Dan. Often times these new regs are put in place and those
> that it effects find out too late. In addition to the NAR
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> suggestions to make them more realistic and workable yet still meet
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> That being said a national (or international) HAB group would be very
> nice to have as a resource and a watchdog. But it is much easier said
> than done to create one.
>
> I'd join the HAB Association of *Whatever*.
>
> Pete
> KCØGPB
>
> ---- Original Message -----

> From: Dan Bowen
> To: Gpsl
> Cc: GPSL list
> Sent: Friday, May 01, 2009 10:13 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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>
> Well that's good news, but it does bring to mind the
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> us to ensure that AOPA is on our side.
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> Thanks,
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
University of North Dakota

5245. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:42:01 UTC
From: Joe
Topic: 5233 Message: 5245

yup

And really, Yes i was into rocketry, never into it like the big guys are, like with the "P" mototrs and all that,

But after doing these balloons for 20+ years now i have just lost all interest in the rocketry aspect.

I look at the money some of these people spen on a GIANT rocket like 10K and then some and are all excited that it reached 5K feet!! man i can't imagine wht type of balloon payload flight i could make for 10 grand, and i know it will exceed 5 k for sure!

John Nordlie wrote:

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>>---- Original Message -----

>> From: Dan Bowen
>> To: Gpsl
>> Cc: GPSL list
>> Sent: Friday, May 01, 2009 10:13 AM
>> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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>>Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date: 05/01/09 06:17:00
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5246. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:46:34 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5246

Whoa!! I use to belong to IJA. That was back in my USAF days. I was stationed at the Pentagon and in downtown DC was the only juggling store I had ever seen.

If we created a national organization, I'd like to see GPSL become its national conference (with a name change?). I also think Ralph should be its official historian.

Paul

On Fri, May 1, 2009 at 11:40 AM, Pete Lilja <plilja@...> wrote:

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> That may be true. But how does that change the desirability of a HAB
> organization? Jugglers have the International Jugglers' Association
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> resource, a magazine and to be the group that organizes their annual
> festival. Many groups have organizations to bring together those with a
> common interest - not just to watch for regulations.
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> Aerotech as a company doesn't belong to TRA. It does, yes, have a vested
> interest in people learning about rocketry but TRA would exist without
> Aerotech (or any other manufacturer).
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> Pete
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> ----- Original Message -----
> *From:* John Nordlie <nordlie@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Friday, May 01, 2009 11:30 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> I think one of the big problems is that there is
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> On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:
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> > Pete
> > KCØGPB
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> > ---- Original Message -----
> > From: Dan Bowen
> > To: Gpsl
> > Cc: GPSL list
> > Sent: Friday, May 01, 2009 10:13 AM
> > Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> ----------
> John Nordlie
> Research Assistant/Systems Administrator
> Regional Weather Information Center
> University of North Dakota

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Onwards and Upwards,
Paul

5247. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:50:36 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5247

It's funny to see how much money roceteers spend to reach one mile.

Somehow, I think rocketry is a Freudian thing (long and cylinderical, smoke, flame, noise, etc).

Paul

On Fri, May 1, 2009 at 11:42 AM, Joe <nss@...> wrote:

>
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> yup
>
> And really, Yes i was into rocketry, never into it like the big guys
> are, like with the "P" mototrs and all that,
>
> But after doing these balloons for 20+ years now i have just lost all
> interest in the rocketry aspect.
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> I look at the money some of these people spen on a GIANT rocket like 10K
> and then some and are all excited that it reached 5K feet!! man i can't
> imagine wht type of balloon payload flight i could make for 10 grand, and i
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> That being said a national (or international) HAB group would be very
> nice to have as a resource and a watchdog. But it is much easier said
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> ---- Original Message -----
> From: Dan Bowen
> To: Gpsl
> Cc: GPSL list
> Sent: Friday, May 01, 2009 10:13 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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Onwards and Upwards,
Paul

5248. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:56:27 UTC
From: Joe
Topic: 5233 Message: 5248

Agreed

L. Paul Verhage wrote:

>
>
> Whoa!! I use to belong to IJA. That was back in my USAF days. I was
> stationed at the Pentagon and in downtown DC was the only juggling
> store I had ever seen.
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> If we created a national organization, I'd like to see GPSL become its
> national conference (with a name change?). I also think Ralph should
> be its official historian.
>
> Paul
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> On Fri, May 1, 2009 at 11:40 AM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
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> That may be true. But how does that change the desirability of a
> HAB organization? Jugglers have the International Jugglers'
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> to bring together those with a common interest - not just to watch
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> Aerotech as a company doesn't belong to TRA. It does, yes, have a
> vested interest in people learning about rocketry but TRA would
> exist without Aerotech (or any other manufacturer).
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> Pete
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>
> ----- Original Message -----
> From: John Nordlie <mailto:nordlie@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Friday, May 01, 2009 11:30 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> I think one of the big problems is that there is

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> > Thanks,
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> John Nordlie
> Research Assistant/Systems Administrator
> Regional Weather Information Center
> University of North Dakota
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5249. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 16:57:18 UTC
From: Joe
Topic: 5233 Message: 5249

Over compensating for the lack of something else? he he he

L. Paul Verhage wrote:

>
>
> It's funny to see how much money roceteers spend to reach one mile.
>
> Somehow, I think rocketry is a Freudian thing (long and cylinderical,
> smoke, flame, noise, etc).
>
> Paul
>
> On Fri, May 1, 2009 at 11:42 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
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> yup
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> And really, Yes i was into rocketry, never into it like the big
> guys are, like with the "P" mototrs and all that,
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>>>---- Original Message -----
>>> From: Dan Bowen
>>> To: Gpsl
>>> Cc: GPSL list
>>> Sent: Friday, May 01, 2009 10:13 AM
>>> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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>>> www.avg.com <http://www.avg.com/> Version: 8.5.323 / Virus
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> Onwards and Upwards,
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5250. Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 17:08:40 UTC
From: nordlie101
Topic: 5233 Message: 5250

It wouldn't change the desirability any, I was just thinking of bargaining position. I.e., if the FAA is causing problems for a particular company, a person could go to the senator from the state where that company lives and say, "Hey, FAA's doing something that is hurting company X, which happens to employ voters in your state".

If company X's core business is represented by your organziation, that gives you more clout with the senator than if HAB only represents 0.01% of company X's business.

Just thinking out loud here.

--- In GPSL@yahoogroups.com, "Pete Lilja" <plilja@...> wrote:
>
> That may be true. But how does that change the desirability of a HAB organization? Jugglers have the International Jugglers' Association http://www.juggle.org/ simply for the common interest of the group, as a resource, a magazine and to be the group that organizes their annual festival. Many groups have organizations to bring together those with a common interest - not just to watch for regulations.
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> ----- Original Message -----
> From: John Nordlie
> To: GPSL@yahoogroups.com
> Sent: Friday, May 01, 2009 11:30 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> hobby.
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> On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:
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> > Pete
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> > ---- Original Message -----
> > From: Dan Bowen
> > To: Gpsl
> > Cc: GPSL list
> > Sent: Friday, May 01, 2009 10:13 AM
> > Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
> >
> >
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> > Thanks,
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> > ----------
> > John Nordlie
> > Research Assistant/Systems Administrator
> > Regional Weather Information Center

> University of North Dakota
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5251. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 18:02:22 UTC
From: Pete Lilja
Topic: 5233 Message: 5251

Yeah, rockets can be expensive. One reason I like ballooning! Check out the 1/10 scale Saturn V that launched last Saturday. http://www.rocketsmagazine.com/saturn-v-project/launch/ That was nearly $30K in the rocket and motors to go 4,000'! It did weigh 1600 lbs., though. I just read about a guy that is building a full scale Mercury Redstone - that's 83' tall! And he's done enough successful large projects that he'll likely succeed. Wedge Oldham is his name if you'd like to Google what he's done.

That compensating for something else joke has been used many times, Paul. 8-)

It's just a suggestion / thought as to forming an organization. For the beginner (me included) it would be nice to have that as a resource to learn and advance. There is a lot of information on the 'net but can be a little difficult to gather at the beginning.

If nothing else, perhaps a subgroup of the ARRL would be a way to get it going. I dunno. I'm just a rookie in ALL of this stuff.

Pete
KCØGPB

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Sent: Friday, May 01, 2009 11:42 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

yup

And really, Yes i was into rocketry, never into it like the big guys are, like with the "P" mototrs and all that,

But after doing these balloons for 20+ years now i have just lost all interest in the rocketry aspect.

I look at the money some of these people spen on a GIANT rocket like 10K and then some and are all excited that it reached 5K feet!! man i can't imagine wht type of balloon payload flight i could make for 10 grand, and i know it will exceed 5 k for sure!

John Nordlie wrote:

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APRS tracker and balloon manufacturers out there, but we're not
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On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:

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I'd join the HAB Association of *Whatever*.

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KCØGPB

---- Original Message -----
From: Dan Bowen
To: Gpsl
Cc: GPSL list
Sent: Friday, May 01, 2009 10:13 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

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Thanks,
Dan

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date: 05/01/09 06:17:00

5252. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 18:32:10 UTC
From: John Nordlie
Topic: 5233 Message: 5252

When we started balloon flights back in 1998, EOSS is the
organization that helped us out the most. We used their
handbook as our blueprint for many years, and to this day
I send people to their website (and Ralph Wallio's, and GPSL)
for more information on AHAB.

I thought either ARRL or AMSAT used to have a balloon subgroup,
but decided to let it go. Does anyone else remember that, or
am I imagining things?

On Fri, 2009-05-01 at 13:02 -0500, Pete Lilja wrote:
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> Yeah, rockets can be expensive. One reason I like ballooning! Check
> out the 1/10 scale Saturn V that launched last
> Saturday. http://www.rocketsmagazine.com/saturn-v-project/launch/
> That was nearly $30K in the rocket and motors to go 4,000'! It did
> weigh 1600 lbs., though. I just read about a guy that is building a
> full scale Mercury Redstone - that's 83' tall! And he's done enough
> successful large projects that he'll likely succeed. Wedge Oldham is
> his name if you'd like to Google what he's done.
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> That compensating for something else joke has been used many times,
> Paul. 8-)
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> It's just a suggestion / thought as to forming an organization. For
> the beginner (me included) it would be nice to have that as a resource
> to learn and advance. There is a lot of information on the 'net but
> can be a little difficult to gather at the beginning.
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> If nothing else, perhaps a subgroup of the ARRL would be a way to get
> it going. I dunno. I'm just a rookie in ALL of this stuff.
>
> Pete
> KCØGPB
>
> ----- Original Message -----
> From: Joe
> To: GPSL@yahoogroups.com
> Sent: Friday, May 01, 2009 11:42 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>
>
> yup
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> And really, Yes i was into rocketry, never into it like the
> big guys are, like with the "P" mototrs and all that,
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> But after doing these balloons for 20+ years now i have just
> lost all interest in the rocketry aspect.
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> I look at the money some of these people spen on a GIANT
> rocket like 10K and then some and are all excited that it
> reached 5K feet!! man i can't imagine wht type of balloon
> payload flight i could make for 10 grand, and i know it will
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> > > I'd agree, Dan. Often times these new regs are put in place and those
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> > > Association http://www.tripoli.org/ Both organizations keep up on
> > > watching new legislation that could impact the hobby. I am quite
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> > > That being said a national (or international) HAB group would be very
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> > > I'd join the HAB Association of *Whatever*.
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> > > Pete
> > > KCØGPB
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> > > ---- Original Message -----
> > > From: Dan Bowen
> > > To: Gpsl
> > > Cc: GPSL list
> > > Sent: Friday, May 01, 2009 10:13 AM
> > > Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
University of North Dakota

5253. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 18:39:55 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5253

I've talked to Pat (of SimSat) with AMSAT recently. There appears to be very little interest from AMSAT in near space. I would argue that near space is the kind of thing they should be involved with, it's one step from space (although it is a pretty big step).

Paul

On Fri, May 1, 2009 at 1:32 PM, John Nordlie <nordlie@...> wrote:

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> organization that helped us out the most. We used their
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> > To: GPSL@yahoogroups.com
> > Sent: Friday, May 01, 2009 11:42 AM
> > Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> John Nordlie
> Research Assistant/Systems Administrator
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5254. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 18:56:18 UTC
From: John Nordlie
Topic: 5233 Message: 5254

That is disappointing. Did he give any reason for it? With all
the similar engineering challenges, I'd think they would promote it
as a stepping stone to spacecraft if nothing else.

(Oh, and Paul, I send people to your website as well :-).

On Fri, 2009-05-01 at 13:39 -0500, L. Paul Verhage wrote:
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> be very little interest from AMSAT in near space. I would argue that
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> > > > Cc: GPSL list
> > > > Sent: Friday, May 01, 2009 10:13 AM
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John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
Odegard Hall, Rm 257
3980 Campus Road
University of North Dakota
Grand Forks, ND 58202-9007

nordlie@...
Voice 701-777-6112 / fax 701-777-3888
http://blizzard.rwic.und.edu/~nordlie/

5255. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 19:01:00 UTC
From: L. Paul Verhage
Topic: 5233 Message: 5255

Pat Kilroy is trying to set something up, but it seems the current AMSAT leaders (board?) has enough on their hands with their current satellite plans.

On Fri, May 1, 2009 at 1:56 PM, John Nordlie <nordlie@...> wrote:

> That is disappointing. Did he give any reason for it? With all
> the similar engineering challenges, I'd think they would promote it
> as a stepping stone to spacecraft if nothing else.
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> > Onwards and Upwards,
> > Paul
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> ----------
> John Nordlie
> Research Assistant/Systems Administrator
> Regional Weather Information Center
> Odegard Hall, Rm 257
> 3980 Campus Road
> University of North Dakota
> Grand Forks, ND 58202-9007
>
> nordlie@...
> Voice 701-777-6112 / fax 701-777-3888
> http://blizzard.rwic.und.edu/~nordlie/
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5256. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:12:54 UTC
From: Joe
Topic: 5233 Message: 5256

Hi Paul, AND EVERYONE!!!

Yes I just don't understand why people are not beating down our doors to do flights for them,,

Yes I have done some test flights for some NASA guys, and a group that was going after the X Prize. But where we would shine is in places like Middle and high schools. Like Chuck did with Windtrax.

But at least here in Wisconsin, Unles you are a part of the University of Wisconsin system you do not know anything at all.

Just a year ago or so we did a fantastic balloon flight for several thousand students and countless of the general public at a celebration of 50 years of spaceflight celebrating 50 years of bla bla bla, it was at a local school that i tried ohh ten years ago to bring a program like we can do for them with no results what so ever, the only reason it probably happened is because I knoew the teacher that was in charge of the whole program, and he lerned to belive what we can offer because he was at a flight we did at a star party.. he even admitted that when he first heard of this he did not belive what we do and what can be done. till he actually seen a flight..

Get this everyone,, About two weeks ago I sent a blanket message out (It is below) to all the local high schools, Every science teacher, principal, assistant principal, electronics teachers, computer teachers etc. it went out to 67 different people. And tomorrow it will be three weeks since i did this mailing and NOT ONE SINGLE REPLY!!!

At the sputnik celebration they had an astronaut give a nice talk, but later he hunted me down and said I have been looking for you all day and talked about the balloon program.. And how he thinks it is soo incredible, and how he wished there was someone like this when he was in school..
heres is that message I sent out..

Mr. Wong,
My name is Joe Mayenschein. My son Chris went to the Hillsboro School system for most of his life. He did move to Wonewoc before graduation tho.

But that is not the reason I am contacting you this afternoon.

I am the founder and mission director of a program we are proud to call "Near Space Sciences"

We would like to Bring Wisconsin's very own Space Program "Near Space Sciences" to your school.

Imagine if you were able to come up with a concept of a space satellite. Then design, build, and actually launch it to the, EDGE OF SPACE!
A typical payload can reach altitudes that look like this!
(Picture deleted for now you all know what the pictures from altitude look like..)
This picture was taken during a flight we had for several hundred boy & girl scouts two years ago at the Sauk County fairgrounds. The picture was taken at about 2 PM in the afternoon, notice the curvature of the Earth, the Inky blackness of the sky, as well as the beautiful Blue cloud dappled Earth below! You can see the haze of the thin atmosphere on the horizon. And the sky is inky black as it is in Space because the payload for all practicable reasons IS in space. When this picture was taken the payload was above 99.5% of the Earths Atmosphere! Less than 1/2 of one percent remains.!

A short You Tube video of liftoff of this flight for the Boy & Girl scouts can be seen here.
http://www.youtube.com/watch?v=NoUkgWOUbNQ

We are one of the several originators in the world of this Amateur Based Near Space Research programs like these. This year is our 21st year doing these flights to the "Edge Of Space" We had our first flight in the summer of 1988.
A somewhat outdated web page of ours can be seen at,
http://www.qsl.net/wb9sbd/educators.html

A year ago last October, (October 23rd to be exact) we had our 45th flight for over a thousand students from all over southwest Wisconsin as well as thousands more of the general public! It was at an event called "October Skies" Where we were in celebration of the 50th anniversary of the launch of Sputnik, and man's exploration of Space! It was held at the Richland Center High School. The "October Skies" flight, this one was a pretty exciting flight, we had a GPS system on-board that allowed us to track the payload throughout it's flight. At all times we knew it's exact location, Altitude, as well as speed and direction it was moving.

Also onboard was a radio communications repeater station again (you'll hear someone talking through the balloon in the video) but the best part was a full LIVE TELEVISION SYSTEM onboard transmitting the view from the payload back to the ground.

Here is another Video of the Richland Center High Schools "October Skies" liftoff of their payload as well as other activities held during that day. it can be seen at,

http://www.cqtube.com/video/59/nss-45

and here is the view of liftoff from the payload itself.

http://www.youtube.com/watch?v=XXfNJoLLpI8

A web page I started (just haven't finished yet) that is a detailed
story as to how this flight came to be. I'm not too sure if the school
made any pages for it but for Near Space Sciences own records I started
making the one for this flight it can be seen at, the address below. It
not only shown what we went through to make this happen, but how many ,
MANY different classes in the school can be involved with these flights.
The page is at.

http://www.qsl.net/wb9sbd/nss-45.html

We would just love to be able to bring our program like this to the
Hillsboro High School.

Looking Forward to hear what your thoughts are.

Joe Mayenschein
Near Space Sciences

not one single reply, not even a No, Thank You, Just total nothing..

It just amazes me..

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> I've talked to Pat (of SimSat) with AMSAT recently. There appears to
> be very little interest from AMSAT in near space. I would argue that
> near space is the kind of thing they should be involved with, it's one
> step from space (although it is a pretty big step).
>
> Paul
>
> On Fri, May 1, 2009 at 1:32 PM, John Nordlie <nordlie@...
> <mailto:nordlie@...>> wrote:
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> organization that helped us out the most. We used their
> handbook as our blueprint for many years, and to this day
> I send people to their website (and Ralph Wallio's, and GPSL)
> for more information on AHAB.
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> but decided to let it go. Does anyone else remember that, or
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> > Yeah, rockets can be expensive. One reason I like ballooning!

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> > out the 1/10 scale Saturn V that launched last
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> > That was nearly $30K in the rocket and motors to go 4,000'! It did
> > weigh 1600 lbs., though. I just read about a guy that is building a
> > full scale Mercury Redstone - that's 83' tall! And he's done enough
> > successful large projects that he'll likely succeed. Wedge
> Oldham is
> > his name if you'd like to Google what he's done.
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> > That compensating for something else joke has been used many times,
> > Paul. 8-)
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> > It's just a suggestion / thought as to forming an organization. For
> > the beginner (me included) it would be nice to have that as a
> resource
> > to learn and advance. There is a lot of information on the 'net but
> > can be a little difficult to gather at the beginning.
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> > If nothing else, perhaps a subgroup of the ARRL would be a way
> to get
> > it going. I dunno. I'm just a rookie in ALL of this stuff.
> >
> > Pete
> > KC?GPB
> >
> > ----- Original Message -----
> > From: Joe
> > To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > Sent: Friday, May 01, 2009 11:42 AM
> > Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
> >
> >
> > yup
> >
> > And really, Yes i was into rocketry, never into it
> like the
> > big guys are, like with the "P" mototrs and all that,
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> > But after doing these balloons for 20+ years now i have
> just
> > lost all interest in the rocketry aspect.
> >
> > I look at the money some of these people spen on a GIANT
> > rocket like 10K and then some and are all excited that it
> > reached 5K feet!! man i can't imagine wht type of balloon
> > payload flight i could make for 10 grand, and i know it
> will
> > exceed 5 k for sure!
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> > John Nordlie wrote:
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> > >
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> > > really no industry that is dedicated to AHAB. Sure,
> there are
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> > > their biggest customers, where as companies like
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> > > a lot riding on how easy it is for their customers to
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> > > hobby.
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> > > > I'd agree, Dan. Often times these new regs are put
> in place and those
> > > > that it effects find out too late. In addition to
> the NAR
> > > > http://www.nar.org/ there is also the Tripoli Rocketry
> > > > Association http://www.tripoli.org/ Both
> organizations keep up on
> > > > watching new legislation that could impact the
> hobby. I am quite
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> FAR101 regs.and made
> > > > suggestions to make them more realistic and workable
> yet still meet
> > > > the FAA's needs BEFORE they became law.
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> > > > That being said a national (or international) HAB
> group would be very
> > > > nice to have as a resource and a watchdog. But it
> is much easier said
> > > > than done to create one.
> > > >
> > > > I'd join the HAB Association of *Whatever*.
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> > > > Pete
> > > > KC?GPB
> > > >
> > > > ---- Original Message -----
> > > > From: Dan Bowen
> > > > To: Gpsl
> > > > Cc: GPSL list
> > > > Sent: Friday, May 01, 2009 10:13 AM
> > > > Subject: Re: [GPSL] Re: [Balloon_Sked]
> Different HAB Regs?

> > > >
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> > > > Well that's good news, but it does bring to
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> we should consider
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> that matter is a
> > > > tremendous force in swaying FAA regulation.
> It would behoove
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> > > > Dan
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
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5257. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:14:58 UTC
From: Joe
Topic: 5233 Message: 5257

Sad thing is tho way in the beginning 20 years ago the AMSAT gang was enthusiastic supporters of these missions, I remember getting a LOT of support from them,, They all thought of our flights as a very short and very low orbit bird.

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> Pat Kilroy is trying to set something up, but it seems the current
> AMSAT leaders (board?) has enough on their hands with their current
> satellite plans.
>
> On Fri, May 1, 2009 at 1:56 PM, John Nordlie <nordlie@...
> <mailto:nordlie@...>> wrote:
>
> That is disappointing. Did he give any reason for it? With all
> the similar engineering challenges, I'd think they would promote it
> as a stepping stone to spacecraft if nothing else.
>
> (Oh, and Paul, I send people to your website as well :-).
>
> On Fri, 2009-05-01 at 13:39 -0500, L. Paul Verhage wrote:
> >
> >
> > I've talked to Pat (of SimSat) with AMSAT recently. There
> appears to
> > be very little interest from AMSAT in near space. I would argue
> that
> > near space is the kind of thing they should be involved with,
> it's one
> > step from space (although it is a pretty big step).
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> > Paul
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> > On Fri, May 1, 2009 at 1:32 PM, John Nordlie
> <nordlie@... <mailto:nordlie@...>>
> > wrote:
> > When we started balloon flights back in 1998, EOSS is the
> > organization that helped us out the most. We used their
> > handbook as our blueprint for many years, and to this day

> > I send people to their website (and Ralph Wallio's, and
> GPSL)
> > for more information on AHAB.
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> > I thought either ARRL or AMSAT used to have a balloon
> > subgroup,
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> > > http://www.rocketsmagazine.com/saturn-v-project/launch/
> > > That was nearly $30K in the rocket and motors to go
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> > > weigh 1600 lbs., though. I just read about a guy that is
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> Wedge
> > Oldham is
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> used many
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> > > It's just a suggestion / thought as to forming an
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> on the
> > 'net but
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> > > If nothing else, perhaps a subgroup of the ARRL would be a
> > way to get
> > > it going. I dunno. I'm just a rookie in ALL of this
> stuff.

> > >
> > > Pete
> > > KC?GPB
> > >
> > > ----- Original Message -----
> > > From: Joe
> > > To: GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com>
> > > Sent: Friday, May 01, 2009 11:42 AM
> > > Subject: Re: [GPSL] Re: [Balloon_Sked]
> Different HAB
> > Regs?
> > >
> > >
> > > yup
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> > > And really, Yes i was into rocketry, never
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> > > > > suggestions to make them more realistic and
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> > > > > I'd join the HAB Association of *Whatever*.
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> > > > > To: Gpsl
> > > > > Cc: GPSL list
> > > > > Sent: Friday, May 01, 2009 10:13 AM
> > > > > Subject: Re: [GPSL] Re: [Balloon_Sked]
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> > > > > > Checked by AVG - www.avg.com
> <http://www.avg.com/>
> > > > > > Version: 8.5.323 / Virus Database:
> > 270.12.12/2090 - Release Date: 05/01/09 06:17:00
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> > > ---------------------------------------
> > > John Nordlie
> > > Research Assistant/Systems Administrator
> > > Regional Weather Information Center
> > > University of North Dakota
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> Research Assistant/Systems Administrator
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> 3980 Campus Road
> University of North Dakota
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> nordlie@... <mailto:nordlie@...>
> Voice 701-777-6112 / fax 701-777-3888
> http://blizzard.rwic.und.edu/~nordlie/
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5258. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:16:59 UTC
From: Joe
Topic: 5233 Message: 5258

The EOSS Faq pages are a great rescourse!

Joe WB9SBD
Near Space Sciences

Pete Lilja wrote:

>
>
> Yeah, rockets can be expensive. One reason I like ballooning! Check
> out the 1/10 scale Saturn V that launched last
> Saturday. http://www.rocketsmagazine.com/saturn-v-project/launch/
> That was nearly $30K in the rocket and motors to go 4,000'! It did
> weigh 1600 lbs., though. I just read about a guy that is building a
> full scale Mercury Redstone - that's 83' tall! And he's done enough
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> If nothing else, perhaps a subgroup of the ARRL would be a way to get
> it going. I dunno. I'm just a rookie in ALL of this stuff.
>
> Pete
> KC?GPB
>
>
> ----- Original Message -----
> From: Joe <mailto:nss@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Friday, May 01, 2009 11:42 AM
> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
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> yup
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> And really, Yes i was into rocketry, never into it like the big
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> But after doing these balloons for 20+ years now i have just lost
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>>> From: Dan Bowen
>>> To: Gpsl
>>> Cc: GPSL list
>>> Sent: Friday, May 01, 2009 10:13 AM
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5259. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:37:20 UTC
From: Harry M
Topic: 5233 Message: 5259

Hi Joe,

Your posting sounds a lot like what I've gone through over the past several years. It seems that most teachers are stuck with the current curriculum and are afraid to step out and reach for something new. It's really a shame! When my son was in Elem. school, he had one teacher that allowed me to set up a camera during a solar eclipse and pipe the video into a big screen in the classroom. She also allowed me to demonstrate a contact with the MIR space station. That was the only teacher in the whole school system that was ever interested.

As far as AMSAT goes, it's pretty sad that they spend so much energy on big $$$ projects and not enough at the grassroots level.

73
Harry KC5TRB

5260. Flying with the schools

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:43:06 UTC
From: BASE
Topic: 5233 Message: 5260

Joe and friends,

I have found that the schools are more willing to work with us when I can point to specific academic (science) standards that have been established for their grade level by our state department of education. In Indiana, this means that it is easier to fly in high schools with an Earth Science class than with an advanced chemistry or physics class. To fly with fourth graders emphasize air, wind, and weather, with fifth graders - fly an experiment that looks at changes in matter during and after a flight.

Last year, even with standard identification, our offer to fly was only accepted by 10 teachers out of a a pool of 150+.

Howard

5261. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:55:08 UTC
From: Joe
Topic: 5233 Message: 5261

Thing is also

you would think they would JUMP at a chance to do something this cool
and it COSTS THEM NOTHING!!!

Thats what the Astronaut also asked me, How much did I charge the
school to do this flight, and he almost died when I told him it's free.
He said if he was an educator in charge and seen a program like this
he'd be willing to pay thousands per flight, Of course we can accept
payment, but this demonstrates the value we offer but to be ignored..

Harry M wrote:

>
>
> Hi Joe,
>
> Your posting sounds a lot like what I've gone through over the past
> several years. It seems that most teachers are stuck with the current
> curriculum and are afraid to step out and reach for something new.
> It's really a shame! When my son was in Elem. school, he had one
> teacher that allowed me to set up a camera during a solar eclipse and
> pipe the video into a big screen in the classroom. She also allowed me
> to demonstrate a contact with the MIR space station. That was the only
> teacher in the whole school system that was ever interested.
>
> As far as AMSAT goes, it's pretty sad that they spend so much energy
> on big $$$ projects and not enough at the grassroots level.
>
> 73
> Harry KC5TRB
>
>
>
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>
>--
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date: 05/01/09 06:17:00
>
>
>

5262. Re: [GPSL] Flying with the schools

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 20:56:01 UTC
From: Joe
Topic: 5233 Message: 5262

isn't that sooo very sad?

BASE wrote:

>
>
> Joe and friends,
>
> I have found that the schools are more willing to work with us when I
> can point to specific academic (science) standards that have been
> established for their grade level by our state department of
> education. In Indiana, this means that it is easier to fly in high
> schools with an Earth Science class than with an advanced chemistry or
> physics class. To fly with fourth graders emphasize air, wind, and
> weather, with fifth graders - fly an experiment that looks at changes
> in matter during and after a flight.
>
> Last year, even with standard identification, our offer to fly was
> only accepted by 10 teachers out of a a pool of 150+.
>
> Howard
>
>
>
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>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date: 05/01/09 06:17:00
>
>
>

5263. Re: [GPSL] Flying with the schools

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-01 21:18:38 UTC
From: Ed Moore
Topic: 5233 Message: 5263

Our experiences here in the UK tally somewhat.

It's tough for schools, teachers are afraid of taking risks - it usually costs them a lot of credance with other staff/principals if the experiment isn't a success. Whilst the cost of a mission is £60 for a balloon, £30 for helium and a tank of gas to go and get it, the cost for supply teachers to cover at the school when other teachers and kids go ballooning is maybe five times that.

We were lucky enough to work with a very forward thinking, innovative teacher, but I personally saw the risks he took and the favours he pulled in to get the school to agree to an experiment with us. And whilst we'll never know, I get the impression it would have set things back for him had the experiment not worked.

Anyway, in the end it was pretty successful and we all had a blast, and it's now a much easier 'sell' the concept to other schools and education authorities as a result. Here is some coverage of what we did:

http://news.bbc.co.uk/1/hi/sci/tech/7767376.stm
http://www.timesonline.co.uk/tol/news/uk/science/article5289142.ece

I think the trick is, as you say, to find the specific teacher and work with them. Now we have a teacher on side who we can point other understandable conservative, skeptical teachers towards, who can vouch for the project from their point of view, and who understands their concerns and the pressures they work under.

Keep pushing, it's worth it.

Ed
--
Ed Moore
M0TEK

Cambridge University Spaceflight
http://www.cuspaceflight.co.uk

On 1 May 2009, at 21:56, Joe wrote:

>
>
> isn't that sooo very sad?
>
> BASE wrote:
>> Joe and friends,
>>

>> I have found that the schools are more willing to work with us when
>> I can point to specific academic (science) standards that have been
>> established for their grade level by our state department of
>> education. In Indiana, this means that it is easier to fly in high
>> schools with an Earth Science class than with an advanced chemistry
>> or physics class. To fly with fourth graders emphasize air, wind,
>> and weather, with fifth graders - fly an experiment that looks at
>> changes in matter during and after a flight.
>>
>> Last year, even with standard identification, our offer to fly was
>> only accepted by 10 teachers out of a a pool of 150+.
>>
>> Howard
>>
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.323 / Virus Database: 270.12.12/2090 - Release Date:
>> 05/01/09 06:17:00
>>
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>
>
> <!-- #ygrp-mkp{ border: 1px solid #d8d8d8; font-family: Arial;
> margin: 14px 0px; padding: 0px 14px; } #ygrp-mkp hr{ border: 1px
> solid #d8d8d8; } #ygrp-mkp #hd{ color: #628c2a; font-size: 85%; font-
> weight: bold; line-height: 122%; margin: 10px 0px; } #ygrp-mkp
> #ads{ margin-bottom: 10px; } #ygrp-mkp .ad{ padding: 0 0; } #ygrp-
> mkp .ad a{ color: #0000ff; text-decoration: none; } --> <!-- #ygrp-
> sponsor #ygrp-lc{ font-family: Arial; } #ygrp-sponsor #ygrp-lc
> #hd{ margin: 10px 0px; font-weight: bold; font-size: 78%; line-
> height: 122%; } #ygrp-sponsor #ygrp-lc .ad{ margin-bottom: 10px;
> padding: 0 0; } --> <!-- #ygrp-mlmsg {font-size:13px; font-family:
> arial,helvetica,clean,sans-serif;*font-size:small;*font:x-small;}
> #ygrp-mlmsg table {font-size:inherit;font:100%;} #ygrp-mlmsg select,
> input, textarea {font:99% arial,helvetica,clean,sans-serif;} #ygrp-
> mlmsg pre, code {font:115% monospace;*font-size:100%;} #ygrp-mlmsg *
> {line-height:1.22em;} #ygrp-text{ font-family: Georgia; } #ygrp-
> text p{ margin: 0 0 1em 0; } dd.last p a { font-family: Verdana;
> font-weight: bold; } #ygrp-vitnav{ padding-top: 10px; font-family:
> Verdana; font-size: 77%; margin: 0; } #ygrp-vitnav a{ padding: 0
> 1px; } #ygrp-mlmsg #logo{ padding-bottom: 10px; } #ygrp-reco
> { margin-bottom: 20px; padding: 0px; } #ygrp-reco #reco-head { font-
> weight: bold; color: #ff7900; } #reco-category{ font-size: 77%; }
> #reco-desc{ font-size: 77%; } #ygrp-vital a{ text-decoration:
> none; } #ygrp-vital a:hover{ text-decoration: underline; } #ygrp-
> sponsor #ov ul{ padding: 0 0 0 8px; margin: 0; } #ygrp-sponsor #ov
> li{ list-style-type: square; padding: 6px 0; font-size: 77%; } #ygrp-
> sponsor #ov li a{ text-decoration: none; font-size: 130%; } #ygrp-

```
> sponsor #nc{ background-color: #eee; margin-bottom: 20px; padding: 0
> 8px; } #ygrp-sponsor .ad{ padding: 8px 0; } #ygrp-sponsor .ad
> #hd1{ font-family: Arial; font-weight: bold; color: #628c2a; font-
> size: 100%; line-height: 122%; } #ygrp-sponsor .ad a{ text-
> decoration: none; } #ygrp-sponsor .ad a:hover{ text-decoration:
> underline; } #ygrp-sponsor .ad p{ margin: 0; font-weight: normal;
> color: #000000; } o{font-size: 0; } .MsoNormal{ margin: 0 0 0 0; }
> #ygrp-text tt{ font-size: 120%; } blockquote{margin: 0 0 0
> 4px;} .replbq{margin:4} dd.last p span { margin-right: 10px; font-
> family: Verdana; font-weight: bold; } dd.last p span.yshortcuts
> { margin-right: 0; } div.photo-title a, div.photo-title a:active,
> div.photo-title a:hover, div.photo-title a:visited { text-
> decoration: none; } div.file-title a, div.file-title a:active,
> div.file-title a:hover, div.file-title a:visited { text-decoration:
> none; } #ygrp-msg p#attach-count { clear: both; padding: 15px 0 3px
> 0; overflow: hidden; } #ygrp-msg p#attach-count span { color:
> #1E66AE; font-weight: bold; } div#ygrp-mlmsg #ygrp-msg p a
> span.yshortcuts { font-family: Verdana; font-size: 10px; font-
> weight: normal; } #ygrp-msg p a { font-family: Verdana; font-size:
> 10px; } #ygrp-mlmsg a { color: #1E66AE; } div.attach-table div div a
> { text-decoration: none; } div.attach-table { width: 400px; } -->
```

5264. Looking for Stories Of BAD dealings With....

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 01:15:44 UTC
From: Joe
Topic: 5264 Message: 5264

hi All,

I'd like to compare stories of bad dealings with others in either the scientific or educational community when it comes to ARHAB.

Joe WB9SBD
Near Space Sciences

5265. Launch Notice

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 01:52:48 UTC
From: L. Paul Verhage
Topic: 5265 Message: 5265

I'll drive to Gretna, NE on Sunday to do a launch with NSTAR. My balloon will carry two trackers. KD4STH-11 is transmitting at 144.390. KD4STH-9 is transmitting at 144.360 at 15s after the minute. The balloon is 1,000g and will have 11 pounds of lift.

--
Onwards and Upwards,
Paul

5266. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 05:52:50 UTC
From: Mike Manes
Topic: 5233 Message: 5266

Fat chance. AOPA would prefer to have the NAS all to itself. If you browse into the comments submitted on NPRMs that created Subpart D, that's pretty clear. Not sure where you'd find that on the web, tho. I have an n-th gen hardcopy. The NWS would be a more reliable ally.

However, it would be nice to have a national organization that can represent the interests of ARHAB before the FAA, IMHO, kinda like ARRL for ham radio. Others understandably disagree, however.

"We can all hang together, or hang separately", Ben Franklin (?) ca 1770.

73 de Mike W5VSI
CTO EOSS

Dan Bowen wrote:
>
>
> Well that's good news, but it does bring to mind the possibility that it
> could happen. Perhaps we should consider forming an association like
> the NAR or AOPA to provide a unified political representation. AOPA for
> that matter is a tremendous force in swaying FAA regulation. It would
> behoove us to ensure that AOPA is on our side.
>
> Thanks,
> Dan
>
> On May 1, 2009, at 8:58 AM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
>> <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.4.9.1>http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.4.9.1
>>
>> [this should be authoritative - not sure I trust a flight-sim website
>> for the latest info..... :)]
>>
>> The free balloon exemptions are still in place. It appears there were
>> other changes to FAR Part 101 made in late 2008, but not affecting
>> ARHAB. The other language for non-exempt balloons has not been
>> changed since 1974 according to the GPO website.
>>
>> 73 de Mark N9XTN
>>
>> On Thu, Apr 30, 2009 at 18:12, Pete Lilja <
>> <mailto:plilja@...>plilja@... <mailto:plilja@...>> wrote:
>>

>>
>>
>> I fly high powered rockets in addition to an interest in HABs.
>> There was a recent change in FAR 101 regarding rockets and the
>> FAA. A fellow HP rocketeer and HAB enthusiast was looking over
>> the new regs and noticed some seeming differences in FAR 101
>> regarding unmanned balloons.
>>
>> The text of pps. 8 and 9 are copied below. Are these new regs we
>> need to be concerned about? Or are those payloads under 6 lbs.
>> still exempt? Is this new stuff (as it is with high power rockets)?
>>
>> *
>>
>> Subpart D—Unmanned Free Balloons
>>
>> § 101.31 Applicability.
>>
>> *
>>
>> This subpart applies to the operation of unmanned free balloons.
>> However, a person operating an unmanned free balloon within a
>> restricted area must comply only with §101.33 (d) and (e) and with
>> any additional limitations that are imposed by the using or
>> controlling agency, as appropriate.
>>
>> *
>>
>> § 101.33 Operating limitations.
>>
>> *
>>
>> No person may operate an unmanned free balloon— (a) Unless
>> otherwise authorized by ATC, below 2,000 feet above the surface
>> within the lateral boundaries of the surface areas of Class B,
>> Class C, Class D, or Class E airspace designated for an airport;
>> (b) At any altitude where there are clouds or obscuring phenomena
>> of more than five-tenths coverage; (c) At any altitude below
>> 60,000 feet standard pressure altitude where the horizontal
>> visibility is less than five miles;
>>
>> (d) During the first 1,000 feet of ascent, over a congested area
>> of a city, town, or settlement or an open-air assembly of persons
>> not associated with the operation; or
>>
>> (e) In such a manner that impact of the balloon, or part thereof
>> including its payload, with the surface creates a hazard to
>> persons or property not associated with the operation. [Doc. No.
>> 1457, 29 FR 47, Jan. 3, 1964, as amended by Amdt. 101-5, 56 FR
>> 65662, Dec. 17, 1991]

>>
>> *
>>
>> § 101.35 Equipment and marking requirements.
>>
>> *
>>
>> (a) No person may operate an unmanned free balloon unless— (1) It
>> is equipped with at least two payload cut-down systems or devices
>> that operate independently of each other; (2) At least two
>> methods, systems, devices, or combinations thereof, that function
>> independently of each other, are employed for terminating the
>> flight of the balloon envelope; and (3) The balloon envelope is
>> equipped with a radar reflective device(s) or material that will
>> present an echo to surface radar operating in the 200 MHz to 2700
>> MHz frequency range. The operator shall activate the appropriate
>> devices required by paragraphs (a) (1) and (2) of this section
>> when weather conditions are less than those prescribed for
>> operation under this subpart, or if a malfunction or any other
>> reason makes the further operation hazardous to other air traffic
>> or to persons and property on the surface. (b) No person may
>> operate an unmanned free balloon below 60,000 feet standard
>> pressure altitude between sunset and sunrise (as corrected to the
>> altitude of operation) unless the balloon and its attachments and
>> payload, whether or not they become separated during the
>> operation, are equipped with lights that are visible for at least
>> 5 miles and have a flash frequency of at least 40, and not more
>> than 100, cycles per minute. (c) No person may operate an unmanned
>> free balloon that is equipped with a trailing antenna that
>> requires an impact force of more than 50 pounds to break it at any
>> point, unless the antenna has colored pennants or streamers that
>> are attached at not more than 50 foot intervals and that are
>> visible for at least one mile. (d) No person may operate between
>> sunrise and sunset an unmanned free balloon that is equipped with
>> a suspension device (other than a highly conspicuously colored
>> open parachute) more than 50 feet along, unless the suspension
>> device is colored in alternate bands of high conspicuity colors or
>> has colored pennants or streamers attached which are visible for
>> at least one mile. (Sec. 6(c), Department of Transportation Act
>> (49 U.S.C. 1655(c))) [Doc. No. 1457, 29 FR 47, Jan. 3, 1964, as
>> amended by Amdt. 101-2, 32 FR 5254, Mar. 29, 1967; Amdt. 101-4, 39
>> FR 22252, June 21, 1974]
>>
>> *
>>
>> § 101.37 Notice requirements.
>>
>> *
>>
>> (a)

>>
>> /Prelaunch notice: /Except as provided in paragraph (b) of this
>> section, no person may operate an unmanned free balloon unless,
>> within 6 to 24 hours before beginning the operation, he gives the
>> following information to the FAA ATC facility that is nearest to
>> the place of intended operation: (1) The balloon identification.
>> (2) The estimated date and time of launching, amended as necessary
>> to remain within plus or minus 30 minutes. (3) The location of the
>> launching site.
>>
>>
>>
>> Messages in this topic
>> <http://groups.yahoo.com/group/GPSL/message/5233;_ylc=X3oDMTM0NDQxaTRlBF9TAzk3MzU5NzE0B
GdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQM
xMjQxMTgyNzU1BHRwY0lkAzUyMzM->
>> (1) Reply (via web post)
>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwdWthZnBnBF9TAzk3MzU5NzE0BGdycElkA
zY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzUyMzMEc2VjA2Z0cgRzbGsDcnBseQRzdGltZQMxMjQxMTg
yNzU1?act=reply&messageNum=5233>
>> | Start a new topic
>> <http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlNXR0ZG52BF9TAzk3MzU5NzE0BGdycElkA
zY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3RpbWUDMTI0MTE4Mjc1NQ-->
>>
>> Recent Activity
>>
>> *
>> 1
>> New Members
>> <http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJmY2ViOXZjBF9TAzk3MzU5NzE0BGdycE
lkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBHN0aW1lAzEyNDExODI3NTQ->
>>
>> Visit Your Group
>> <http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlbm84dnE3BF9TAzk3MzU5NzE0BGdycElkAzY3Nj
Q0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMTI0MTE4Mjc1NA-->
>>
>> Give Back
>>
>> Yahoo! for Good
>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJtYTVyODcyBF9TAzk3MzU5NzE0BF9wAzEEZ3JwSWQDNjc2NDQxN
gRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawNicmFuZARzdGltZQMxMjQxMTgyNzU0;_ylg=1/SIG=113
14uv3k/**http%3A//brand.yahoo.com/forgood>
>>
>> Get inspired
>>
>> by a good cause.
>>
>> Y! Toolbar
>>
>> Get it Free!

>> <http://us.lrd.yahoo.com/_ylc=X3oDMTJvOGI1Z3ZuBF9TAzk3MzU5NzE0BF9wAzIEZ3JwSWQDNjc2NDQxNgRncnBzcElkAzE3MDUwNjMxMDgEc2VjA25jbW9kBHNsawN0b29sYmFyBHN0aW1lAzEyNDExODI3NTQ-;_ylg=1/SIG=11c6dvmk9/**http%3A//toolbar.yahoo.com/%3F.cpdl=ygrps>
>>
>> easy 1-click access
>>
>> to your groups.
>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5267. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 05:57:24 UTC
From: Mike Manes
Topic: 5233 Message: 5267

So, how many of you submitted comments to the FAA's NPRM re UAV's, which, when read strictly, bans unmanned balloons that fly above 700 AGL?

L. Paul Verhage wrote:
>
>
> I think a national organization would be neat, but would be limited in
> power. Perhaps it would do things like bulk purchases, conferences,
> newsletters, maintain records, etc. Basically it would be what we are now.
>
> Paul
>
> On Fri, May 1, 2009 at 11:15 AM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
> □
>
>
> I'd agree, Dan. Often times these new regs are put in place and
> those that it effects find out too late. In addition to the NAR
> http://www.nar.org/ there is also the Tripoli Rocketry
> Association http://www.tripoli.org/ Both organizations keep up on
> watching new legislation that could impact the hobby. I am quite
> certain that TRA worked with the FAA on these new FAR101 regs.and
> made suggestions to make them more realistic and workable yet still
> meet the FAA's needs BEFORE they became law.
>
> That being said a national (or international) HAB group would be
> very nice to have as a resource and a watchdog. But it is much
> easier said than done to create one.
>
> I'd join the HAB Association of *Whatever*.
>
> Pete
> KCØGPB
>
> ---- Original Message -----
>
> *From:* Dan Bowen <mailto:dbowen1@...>
> *To:* Gpsl <mailto:gpsl@yahoogroups.com>
> *Cc:* GPSL list <mailto:GPSL@yahoogroups.com>
> *Sent:* Friday, May 01, 2009 10:13 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>

> Well that's good news, but it does bring to mind the possibility
> that it could happen. Perhaps we should consider forming an
> association like the NAR or AOPA to provide a unified political
> representation. AOPA for that matter is a tremendous force in
> swaying FAA regulation. It would behoove us to ensure that AOPA
> is on our side.
>
> Thanks,
> Dan
>
> .
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5268. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 05:59:39 UTC
From: Mike Manes
Topic: 5233 Message: 5268

I think Kaymont Ind's and AirGas aren't offended by our purchases.
Expendables for a single 3000 gm "heavy" run upwards of $500 a pop.

John Nordlie wrote:
> I think one of the big problems is that there is
> really no industry that is dedicated to AHAB. Sure, there are
> APRS tracker and balloon manufacturers out there, but we're not
> their biggest customers, where as companies like Aerotech have
> a lot riding on how easy it is for their customers to pursue their
> hobby.
>
> On Fri, 2009-05-01 at 11:15 -0500, Pete Lilja wrote:
>> □
>>
>> I'd agree, Dan. Often times these new regs are put in place and those
>> that it effects find out too late. In addition to the NAR
>> http://www.nar.org/ there is also the Tripoli Rocketry
>> Association http://www.tripoli.org/ Both organizations keep up on
>> watching new legislation that could impact the hobby. I am quite
>> certain that TRA worked with the FAA on these new FAR101 regs.and made
>> suggestions to make them more realistic and workable yet still meet
>> the FAA's needs BEFORE they became law.
>>
>> That being said a national (or international) HAB group would be very
>> nice to have as a resource and a watchdog. But it is much easier said
>> than done to create one.
>>
>> I'd join the HAB Association of *Whatever*.
>>
>> Pete
>> KCØGPB
>>
>> ---- Original Message -----
>> From: Dan Bowen
>> To: Gpsl
>> Cc: GPSL list
>> Sent: Friday, May 01, 2009 10:13 AM
>> Subject: Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?
>>
>>
>> Well that's good news, but it does bring to mind the
>> possibility that it could happen. Perhaps we should consider
>> forming an association like the NAR or AOPA to provide a
>> unified political representation. AOPA for that matter is a

>> tremendous force in swaying FAA regulation. It would behoove
>> us to ensure that AOPA is on our side.
>>
>> Thanks,
>> Dan
>>
>>
>> .
>>
>>
>>
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5269. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-02 21:57:38 UTC
From: Harry M
Topic: 5166 Message: 5269

Hi Paul,

ORB/NWTI will have 5-6 attending all functions at GPSL and will need 1/T-bottle of Helium.

We made reservations at the Quality Inn.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5270. Re: [GPSL] Re: [Balloon_Sked] Different HAB Regs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-03 08:28:55 UTC
From: wb8elk@aol.com
Topic: 5233 Message: 5270

Hi Paul,

Actually there are many folks in AMSAT who have an interest in Near Space....I attended the AMSAT conference last October in Atlanta and presented a talk on Near Space and using it as a way to test out satellite transponders....there was another talk that included Near Space from the Auburn folks and yet another group from Miami talked about balloons as a stepping stone to satellite payload research. I discussed flying an SDR (software defined radio) system similar to that going up in SuitSat2 on a balloon and that received some interest in doing that as well.

AMSAT actually does have a NearSpace link on their website but it hasn't been updated for awhile.

As to working with the FAA....EOSS has a great relationship with the FAA and if any rule changes are forthcoming....we could start with that relationship.....also I attended a conference in Iowa a couple years ago that was focused on Near Space....there are several big companies that operate under Part 101....Space Data...and NearSpace Corp....I'm certain that they both have a voice and some clout as any changes to Part 101 would tremendously affect them. At that Smallstat conference I talked with the fellow who heads the FAA department that deals with scientific and sounding balloons (he presented a talk about the possibility of balloons striking aircraft)......a handful of near misses and one possible strike with no damage after 60 years of ballooning.....he's a very approachable and open person...I'll look up his contact info. However, I'd advise not asking for clarifications or updates to the rules unless we get word that there appears to be a rule change in the works since government rule changes usually are MORE restrictive than less.

- Bill WB8ELK

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(http://toolbar.aol.com/aolradio/download.html?ncid=emlcntusdown00000003)

5271. Expensive balloons with rockets

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-03 08:55:29 UTC
From: wb8elk@aol.com
Topic: 5271 Message: 5271

One of the comments in the recent thread about HAB regulations was "wonder what 10,000 dollars worth of balloon would look like?".

Well...here you go:

This was our Project HALO CATS prize and X Prize contenders. It was a 400 pound rocket launched from a balloon at 75,000 feet (Rockoon)....a lot of the expense was the large boat rental as we weren't allowed to launch over the continental US and had to be at least 200 miles out to sea in the Gulf of Mexico... _www.harcspace.com_ (http://www.harcspace.com)

_http://www.youtube.com/watch?v=-1bGNTqOzGI&feature=channel_page_ (http://www.youtube.com/watch?v=-1bGNTqOzGI&feature=channel_page)

This is the actual launch of the rocket ignited via a VHF uplink command while it was about 15 miles from the boat and 75,000 feet high...2.4 GHz video downlink.

http://www.youtube.com/watch?v=eFp2Gg3cyTo&feature=related (http://www.youtube.com/watch?v=eFp2Gg3cyTo&feature=related)

Also...there are some nice videos about some government Rockoons in the 60's that also included a nuclear device that they detonated in the stratosphere....hmmm...wonder what the FAA regs are on carrying nuclear devices aloft???

http://www.youtube.com/watch?v=N8KrEvT-wYQ (http://www.youtube.com/watch?v=N8KrEvT-wYQ)

and

http://www.youtube.com/watch?v=Ro9mKomIuww&feature=related (http://www.youtube.com/watch?v=Ro9mKomIuww&feature=related)

- Bill WB8ELK

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5272. Re: [GPSL] Expensive balloons with rockets

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-03 14:22:52 UTC
From: Pete Lilja
Topic: 5271 Message: 5272

That is the coolest stuff I've seen. WoW! Thanks for sharing, Bill!

Rockoons are fascinating. I need to learn more.

Pete
KCØGPB

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Sunday, May 03, 2009 3:55 AM
Subject: [GPSL] Expensive balloons with rockets

One of the comments in the recent thread about HAB regulations was "wonder what 10,000 dollars worth of balloon would look like?".

Well...here you go:

This was our Project HALO CATS prize and X Prize contenders. It was a 400 pound rocket launched from a balloon at 75,000 feet (Rockoon)....a lot of the expense was the large boat rental as we weren't allowed to launch over the continental US and had to be at least 200 miles out to sea in the Gulf of Mexico... www.harcspace.com

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http://www.youtube.com/watch?v=N8KrEvT-wYQ

and

http://www.youtube.com/watch?v=Ro9mKomIuww&feature=related

- Bill WB8ELK

Access 350+ FREE radio stations anytime from anywhere on the web. Get the Radio Toolbar!

5273. Re: [GPSL] Several lots of 100g weather balloons on eBay now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-03 17:01:57 UTC
From: Zack Clobes
Topic: 5230 Message: 5273

I'm not sure if my original message made it to the group or not, but I still have some 1000's and 300's for sale too.

*I've been cleaning out my basement and I found some more balloons that I might as well pass on, as it's going to be another year or two before we get back into it.

I found two 1000g Kaysam balloons, that are still sealed in box, and three 300g Kaysams. One of the 300g's is still sealed, and the others two boxes have been taped back together. If I remember right, I inflated them with compressed air at one point for an experiment. I don't believe that any of them have been abused at any point (over inflation, wet, cold, heat, sunlight, etc). The 300g's have a manufacture date of 02/2005. The 1000g's don't say, but were probably purchased at the same time.

If anyone can put these to use, make me a fair offer plus $15 shipping. I'd rather sell them as a single batch to simplify shipping.

Zack Clobes, W0ZC
Project: Traveler
*

On Wed, Apr 29, 2009 at 10:41 PM, Mark Conner <mconner1@...> wrote:

>
>
> There is a fairly new seller on eBay selling 10 100g red weather balloons
> for $35.50 which includes shipping. Expiration date on these balloons is
> March 08, not too bad. Anyone looking for small balloons for flights,
> demos, etc, can't go far wrong with this. Paypal is required though.
>
> Also, a couple of other sellers with 30g pilot balloons for around the same
> price each, occasionally less if you get lucky on a bid. Also with
> not-terribly-old expiration dates.
>
> A few weeks back I was able to snag two 1000g balloons for around $30 each,
> also with expiration dates of only a year old. It's certainly worth a
> weekly trip to eBay just to see what's on there. A couple years ago I got
> 10 1200g balloons at a heckuva deal.
>
> 73 de Mark N9XTN
>
>

5274. W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 11:43:57 UTC
From: Ralph Wallio, W0RPK
Topic: 5274 Message: 5274

Thanks for many years of fun in many ways but the time has come for me to retire from Amateur Radio
High Altitude Ballooning including hosting and maintenance of ARHAB Launch Announcements and
Records. I propose to make this effective the end of July 2009 but will stand-down sooner if a
volunteer for Launch Announcements and Records hosting and maintenance comes forward before then.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

5275. Re: [GPSL] W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 14:09:17 UTC
From: Pete Lilja
Topic: 5274 Message: 5275

Ralph,

While I am sorry to read this I do understand that it is probably a rather time consuming venture for you and it is time for you to move on. I feel fortunate to have been able to meet you and speak with you briefly at the Hamfest in Des Moines a couple of weeks ago (I am the guy that overheard your name mentioned and then introduced myself).

If no one steps forward to take over your duties might I suggest the ARHAB enthusiasts create an online message board where individuals can post their own launch announcements as well as a meeting place for discussion of HABing. I belong to a rocketry group that uses http://www.yuku.com/ which works pretty well. It can be free but you have to suffer through advertisements. For a fee that users can donate to through the web site the ads are eliminated.

Just my 2¢ worth.

Thanks again, Ralph. Your efforts have been appreciated over the years.

Pete
KCØGPB

----- Original Message -----
From: Ralph Wallio, W0RPK
To: GPSL
Sent: Wednesday, May 06, 2009 6:43 AM
Subject: [GPSL] W0RPK retiring from ARHAB

Thanks for many years of fun in many ways but the time has come for me to retire from Amateur Radio
High Altitude Ballooning including hosting and maintenance of ARHAB Launch Announcements and
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TNX es 73 de Ralph Wallio, WØRPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

5276. Re: [GPSL] W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 14:31:39 UTC
From: L. Paul Verhage
Topic: 5274 Message: 5276

Ralph, I appreciate what you have done for us. ARHAB is much better because of your hard work. I imagine it was also some what thankless. I would like to see a special recognition for Ralph at GPSL this year.

Basically we have lost two greats this year.

Paul

On Wed, May 6, 2009 at 9:09 AM, Pete Lilja <plilja@...> wrote:

>
>
> Ralph,
>
> While I am sorry to read this I do understand that it is probably a rather
> time consuming venture for you and it is time for you to move on. I feel
> fortunate to have been able to meet you and speak with you briefly at the
> Hamfest in Des Moines a couple of weeks ago (I am the guy that overheard
> your name mentioned and then introduced myself).
>
> If no one steps forward to take over your duties might I suggest the ARHAB
> enthusiasts create an online message board where individuals can post their
> own launch announcements as well as a meeting place for discussion of
> HABing. I belong to a rocketry group that uses http://www.yuku.com/ which
> works pretty well. It can be free but you have to suffer through
> advertisements. For a fee that users can donate to through the web site the
> ads are eliminated.
>
> Just my 2¢ worth.
>
> Thanks again, Ralph. Your efforts have been appreciated over the years.
>
> Pete
> KCØGPB
>
>
> ----- Original Message -----
> *From:* Ralph Wallio, W0RPK <W0RPK@...>
> *To:* GPSL <GPSL@yahoogroups.com>
> *Sent:* Wednesday, May 06, 2009 6:43 AM
> *Subject:* [GPSL] W0RPK retiring from ARHAB
>
> Thanks for many years of fun in many ways but the time has come for me to
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> High Altitude Ballooning including hosting and maintenance of ARHAB Launch
> Announcements and

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> stand-down sooner if a
> volunteer for Launch Announcements and Records hosting and maintenance
> comes forward before then.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@... <W0RPK%40netINS.net> W0RPK@... <W0RPK%40arrl.net>
> W0RPK@... <W0RPK%40amsat.org>
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

5277. Re: [GPSL] W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 14:55:47 UTC
From: John Nordlie
Topic: 5274 Message: 5277

Sorry to see you go Ralph, but please accept many thanks
from us for all the years of hard work! Pooling all that
info in one spot was a tremendous help for ARHAB, even though
it must have been like herding cats at times... :-)

73's

-JCN N0RNB

On Wed, 2009-05-06 at 06:43 -0500, Ralph Wallio, W0RPK wrote:
> Thanks for many years of fun in many ways but the time has come for me to retire from Amateur Radio
> High Altitude Ballooning including hosting and maintenance of ARHAB Launch Announcements and
> Records. I propose to make this effective the end of July 2009 but will stand-down sooner if a
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>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@... W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>

5278. Ralph retirement?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 15:02:07 UTC
From: K. Mark Caviezel
Topic: 5278 Message: 5278

Ralph:
Holy cats, ARHAB without you is like a balloon without helium!
THANKS once again for all the great work in your contributions to the great activity!!!

best regards,

- Mark Caviezel NG0X

5279. Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 17:58:32 UTC
From: Mark Conner
Topic: 5279 Message: 5279

Ralph, your dedication and service to ARHAB will be greatly missed. Your help has been invaluable to NSTAR over the past several years.

A more-or-less offhand comment by Ralph recently led me off on a Google rabbit trail that may have paid off. On our NSTAR flight over the weekend, we got several photos of Paul's balloon which was a few thousand feet above us and 3-7 miles away. The balloon occupied maybe 9 pixels out of 7 million, but was definitely the balloon and not an image artifact. Ralph mentioned that all we needed to do now was to come up with a means to aim and zoom a camera to a balloon's location.

This seemed a tractable problem for ARHAB (i.e., within a reasonable budget, sufficient off-the-shelf components, enough accuracy to meet not-too-stringent requirements). So I started off investigating compasses, gyroscopes, and 6-degrees-of-freedom IMUs. All we really need is a way to sense pitch and yaw, or 2 degrees of freedom. Roll is immaterial and and X/Y/Z can be supplied to the necessary accuracy by a GPS. However, there does not seem to be a good way of reliably getting pitch and yaw information on a platform that moves in 3D and undergoes all sorts of complex motions over a period of a couple of hours (gyro drift, accumulated IMU errors, etc). It's possible hobby-grade IMUs can do this, but I couldn't find reliable info either way.

Yaw (azimuth) should be obtainable well enough by a compass - unless zoom values are extreme, pointing accuracy of 1-2 degrees is probably OK. However, having a platform that can tilt complicates it. I found this little sensor that could provide tilt correction:

http://fmadirect.com/detail.htm?item=1489§ion=20

applied to a R/C-mounted camera:
http://diydrones.com/profiles/blog/show?id=705844%3ABlogPost%3A2525

This senses the infrared differences between sky and earth and corrects R/C aircraft servos to compensate, attempting to keep pitch and roll level. I'll have to read more details, but I think one could connect this to a pair of servos to keep a camera pitch level. Yaw information could be obtained from a compass and thus you could have a platform that would point to a constant compass heading at the horizon. With some offsets applied, you could have it point a set number of degrees above or below the horizon. With a GPS and some trig, you should be able to have it point to a 3D location (or set of locations) for the entire flight. Incorporate an APRS receiver and you could have it track a moving target.

One issue I see is that the unit does not appear to work with digital servos. Not sure how much of a limitation this is yet.

Anyway, I thought I'd throw this out there for comments and ideas.

73 de Mark N9XTN

5280. RE: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 19:02:55 UTC
From: Earl Foster
Topic: 5279 Message: 5280

I have been working on this problem of tracking and stabilizing a camera for the past year. I have had some good success and failures. Recently I incorporated a PNI sensor that was generous donate to me. It is a highly accurate 3 axis digital compass (0.01 roll/0.1 pitch) and I believe once I have it incorporated with my current sensors that a camera should be able to maintain its position in wind conditions that do not exceed the servo operation speeds.

I will be updating my website on my progress shortly but in brief I have completed the sensor code required to communicate with my microcontroller and will start incorporating that code with my previous written attempts. There is some information currently on my site http://www.hapb.net/HAPB5.htm. The video at the bottom of the page is what you might be most interested in seeing.

One of many problems that is faced is that using open and/or closed loop PID processes is insufficient because you are always trying to catch-up with the changes. You need to incorporate a predictive algorithm such as a Kalman filter. One of the best, my opinion, microprocessors to use for this is the Propeller by Parallax because of its parallel processing power. Over the past 2 years a number of object files have already been written that anyone can use in their programs. They included 6 DOF (3-axis gyro/3-axis accelerometer) unit from Sparkfun, PID, Kalman filters, autopilot, and single/3-axis compass.

I would be happy to discuss in detail my progress and the problems I have faced if anyone is interested.

Earl Foster

www.hapb.net

To: GPSL@yahoogroups.com
From: mconner1@...
Date: Wed, 6 May 2009 12:58:32 -0500
Subject: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Ralph, your dedication and service to ARHAB will be greatly missed. Your help has been invaluable to NSTAR over the past several years.

A more-or-less offhand comment by Ralph recently led me off on a Google rabbit trail that may have paid off. On our NSTAR flight over the weekend, we got several photos of Paul's balloon which was a few thousand feet above us and 3-7 miles away. The balloon occupied maybe 9 pixels out of 7 million, but was definitely the balloon and not an image artifact. Ralph mentioned that all we needed to do now was to come up with a means to aim and zoom a camera to a balloon's location.

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really need is a way to sense pitch and yaw, or 2 degrees of freedom. Roll is immaterial and and X/Y/Z can be supplied to the necessary accuracy by a GPS. However, there does not seem to be a good way of reliably getting pitch and yaw information on a platform that moves in 3D and undergoes all sorts of complex motions over a period of a couple of hours (gyro drift, accumulated IMU errors, etc). It's possible hobby-grade IMUs can do this, but I couldn't find reliable info either way.

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Anyway, I thought I'd throw this out there for comments and ideas.

73 de Mark N9XTN

_____
Hotmail® has ever-growing storage! Don’t worry about storage limits.
http://windowslive.com/Tutorial/Hotmail/Storage?ocid=TXT_TAGLM_WL_HM_Tutorial_Storage1_052009

5281. Re: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 19:35:14 UTC
From: Ed Moore
Topic: 5279 Message: 5281

I'm working on an almost identical project next ear as my master's project for my engineering degree. A poor man's space telescope (nick-named 'Hobble'). We should compare notes some time, although I am not nearly as far along the line as you - the project doesn't start until September, although I think an objective for the summer will be to get something flying with yaw stabilisation.

I want to do night flights and try and get some shots of fairly wide things like Orion's belt, the band of the milky way and so on. There seem to be a lot of subsystems to be built, though, which is concerning me. Like a software developer, I think I'll have to be very strict on making it just do the job and suppress all my urges to engineer it to toss pancakes and do the washing up. As those guys say - 'YAGNI' - you ain't gonna need it.

I very much agree on the control - it has to be predictive. I haven't given much thought to it yet but Kalman is there as a baseline, although there are probably more robust techniques like H-infinity methods. The latter are appealing as I'm not sure how good a model I'll be able to get of the system dynamics.

I'm looking at guide-star augmentation for the control - magneto/mems to point it roughly in the right direction and then a guide-star tracker to (hopefully!) give pointing accuracy in the sub arc-minute range.

I think this is very possible with sparkfun-grade kit. We have good theoretical methods for getting the most from our relatively crappy sensors, and computing power is cheap.

The time is right for the garden-shed space telescope :)

Ed
M0TEK
http://www.cuspaceflight.co.uk

P.S. If you're not already, you guys should check out the BLAST! documentary. Inspiring stuff.
www.blastthemovie.com

On 6 May 2009, at 20:02, Earl Foster wrote:

>
>
> I have been working on this problem of tracking and stabilizing a
> camera for the past year. I have had some good success and
> failures. Recently I incorporated a PNI sensor that was generous

> donate to me. It is a highly accurate 3 axis digital compass (0.01
> roll/0.1 pitch) and I believe once I have it incorporated with my
> current sensors that a camera should be able to maintain its
> position in wind conditions that do not exceed the servo operation
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>
> I would be happy to discuss in detail my progress and the problems I
> have faced if anyone is interested.
>
> Earl Foster
> www.hapb.net
>
> To: GPSL@yahoogroups.com
> From: mconner1@...
> Date: Wed, 6 May 2009 12:58:32 -0500
> Subject: [GPSL] Ralph's 'retirement' / camera stabilization/aiming
>
>
>
> Ralph, your dedication and service to ARHAB will be greatly missed.
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>
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>
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>
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>
> 73 de Mark N9XTN
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> Hotmail® has ever-growing storage! Don’t worry about storage limits.
> Check it out.

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> <!-- #ygrp-mkp{ border: 1px solid #d8d8d8; font-family: Arial;
> margin: 14px 0px; padding: 0px 14px; } #ygrp-mkp hr{ border: 1px
> solid #d8d8d8; } #ygrp-mkp #hd{ color: #628c2a; font-size: 85%; font-
> weight: bold; line-height: 122%; margin: 10px 0px; } #ygrp-mkp
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> mkp .ad a{ color: #0000ff; text-decoration: none; } --> <!-- #ygrp-
> sponsor #ygrp-lc{ font-family: Arial; } #ygrp-sponsor #ygrp-lc
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> padding: 0 0; } --> <!-- #ygrp-mlmsg {font-size:13px; font-family:
> arial,helvetica,clean,sans-serif;*font-size:small;*font:x-small;}
> #ygrp-mlmsg table {font-size:inherit;font:100%;} #ygrp-mlmsg select,
> input, textarea {font:99% arial,helvetica,clean,sans-serif;} #ygrp-
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> {line-height:1.22em;} #ygrp-text{ font-family: Georgia; } #ygrp-
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> 0; overflow: hidden; } #ygrp-msg p#attach-count span { color:
> #1E66AE; font-weight: bold; } div#ygrp-mlmsg #ygrp-msg p a
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> 10px; } #ygrp-mlmsg a { color: #1E66AE; } div.attach-table div div a
> { text-decoration: none; } div.attach-table { width: 400px; } -->
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5282. Re: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 20:39:09 UTC
From: Harry M
Topic: 5279 Message: 5282

Here's an old site that might give you some food for thought.
Steve (KA9MVA) is an old friend and designer of the HAMHUD.

http://www.hamhud.net/darts/index.html

5283. RE: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-06 23:16:49 UTC
From: Earl Foster
Topic: 5279 Message: 5283

Ed,

Sounds good. While my first series of tests are planned for solar tracking the idea was to be able to mount a celestial scope as well. I have been consulting with Texas A&M Spacecraft Technology Center for about 9 months now. They contacted me after running across my website and determined that I was working on something similar to their project. Collaboration is a good thing.

I also know the senior aerospace engineer at Aerostar. They make all the NASA balloons and parachutes, as well as the Macy's Parade balloon floats. Using latex balloons are fine for up and down but you have be able to float for longer durations if you want to get good results. They have already agreed to launch one of my payloads when I am ready. Of course, I have to do something for them in return, however, my point is that when it is time for your long duration test if you don't have the right balloon perhaps I can help.

I am planning to move away from HAM and start using ISM frequencies for tracking and telemetry as soon as I am able to get back on my project. Double layoffs in the family have forced me to put things aside until I found some work again. Hopefully I will be able to get back on track within the next month or 2.

Anyway, take care and whenever you want to chat please don't hesitate.

earl

> To: GPSL@yahoogroups.com
> From: eam52@...
> Date: Wed, 6 May 2009 20:35:14 +0100
> Subject: Re: [GPSL] Ralph's 'retirement' / camera stabilization/aiming
>
> I'm working on an almost identical project next ear as my master's
> project for my engineering degree. A poor man's space telescope (nick-
> named 'Hobble'). We should compare notes some time, although I am not
> nearly as far along the line as you - the project doesn't start until
> September, although I think an objective for the summer will be to get
> something flying with yaw stabilisation.
>
> I want to do night flights and try and get some shots of fairly wide
> things like Orion's belt, the band of the milky way and so on. There
> seem to be a lot of subsystems to be built, though, which is
> concerning me. Like a software developer, I think I'll have to be very
> strict on making it just do the job and suppress all my urges to
> engineer it to toss pancakes and do the washing up. As those guys say
> - 'YAGNI' - you ain't gonna need it.
>
> I very much agree on the control - it has to be predictive. I haven't
> given much thought to it yet but Kalman is there as a baseline,

> although there are probably more robust techniques like H-infinity
> methods. The latter are appealing as I'm not sure how good a model
> I'll be able to get of the system dynamics.
>
> I'm looking at guide-star augmentation for the control - magneto/mems
> to point it roughly in the right direction and then a guide-star
> tracker to (hopefully!) give pointing accuracy in the sub arc-minute
> range.
>
> I think this is very possible with sparkfun-grade kit. We have good
> theoretical methods for getting the most from our relatively crappy
> sensors, and computing power is cheap.
>
> The time is right for the garden-shed space telescope :)
>
> Ed
> M0TEK
> http://www.cuspaceflight.co.uk
>
> P.S. If you're not already, you guys should check out the BLAST!
> documentary. Inspiring stuff.
> www.blastthemovie.com
>
> On 6 May 2009, at 20:02, Earl Foster wrote:
>
> >
> >
> > I have been working on this problem of tracking and stabilizing a
> > camera for the past year. I have had some good success and
> > failures. Recently I incorporated a PNI sensor that was generous
> > donate to me. It is a highly accurate 3 axis digital compass (0.01
> > roll/0.1 pitch) and I believe once I have it incorporated with my
> > current sensors that a camera should be able to maintain its
> > position in wind conditions that do not exceed the servo operation
> > speeds.
> >
> > I will be updating my website on my progress shortly but in brief I
> > have completed the sensor code required to communicate with my
> > microcontroller and will start incorporating that code with my
> > previous written attempts. There is some information currently on
> > my site http://www.hapb.net/HAPB5.htm. The video at the bottom of
> > the page is what you might be most interested in seeing.
> >
> > One of many problems that is faced is that using open and/or closed
> > loop PID processes is insufficient because you are always trying to
> > catch-up with the changes. You need to incorporate a predictive
> > algorithm such as a Kalman filter. One of the best, my opinion,
> > microprocessors to use for this is the Propeller by Parallax because
> > of its parallel processing power. Over the past 2 years a number of
> > object files have already been written that anyone can use in their

> > programs. They included 6 DOF (3-axis gyro/3-axis accelerometer)
> > unit from Sparkfun, PID, Kalman filters, autopilot, and single/3-
> > axis compass.
> >
> > I would be happy to discuss in detail my progress and the problems I
> > have faced if anyone is interested.
> >
> > Earl Foster
> > www.hapb.net
> >
> > To: GPSL@yahoogroups.com
> > From: mconner1@...
> > Date: Wed, 6 May 2009 12:58:32 -0500
> > Subject: [GPSL] Ralph's 'retirement' / camera stabilization/aiming
> >
> >
> >
> > Ralph, your dedication and service to ARHAB will be greatly missed.
> > Your help has been invaluable to NSTAR over the past several years.
> >
> > A more-or-less offhand comment by Ralph recently led me off on a
> > Google rabbit trail that may have paid off. On our NSTAR flight
> > over the weekend, we got several photos of Paul's balloon which was
> > a few thousand feet above us and 3-7 miles away. The balloon
> > occupied maybe 9 pixels out of 7 million, but was definitely the
> > balloon and not an image artifact. Ralph mentioned that all we
> > needed to do now was to come up with a means to aim and zoom a
> > camera to a balloon's location.
> >
> > This seemed a tractable problem for ARHAB (i.e., within a reasonable
> > budget, sufficient off-the-shelf components, enough accuracy to meet
> > not-too-stringent requirements). So I started off investigating
> > compasses, gyroscopes, and 6-degrees-of-freedom IMUs. All we really
> > need is a way to sense pitch and yaw, or 2 degrees of freedom. Roll
> > is immaterial and and X/Y/Z can be supplied to the necessary
> > accuracy by a GPS. However, there does not seem to be a good way of
> > reliably getting pitch and yaw information on a platform that moves
> > in 3D and undergoes all sorts of complex motions over a period of a
> > couple of hours (gyro drift, accumulated IMU errors, etc). It's
> > possible hobby-grade IMUs can do this, but I couldn't find reliable
> > info either way.
> >
> > Yaw (azimuth) should be obtainable well enough by a compass - unless
> > zoom values are extreme, pointing accuracy of 1-2 degrees is
> > probably OK. However, having a platform that can tilt complicates
> > it. I found this little sensor that could provide tilt correction:
> >
> > http://fmadirect.com/detail.htm?item=1489§ion=20
> >
> > applied to a R/C-mounted camera:

> > http://diydrones.com/profiles/blog/show?id=705844%3ABlogPost%3A2525
> >
> > This senses the infrared differences between sky and earth and
> > corrects R/C aircraft servos to compensate, attempting to keep pitch
> > and roll level. I'll have to read more details, but I think one
> > could connect this to a pair of servos to keep a camera pitch
> > level. Yaw information could be obtained from a compass and thus
> > you could have a platform that would point to a constant compass
> > heading at the horizon. With some offsets applied, you could have
> > it point a set number of degrees above or below the horizon. With a
> > GPS and some trig, you should be able to have it point to a 3D
> > location (or set of locations) for the entire flight. Incorporate
> > an APRS receiver and you could have it track a moving target.
> >
> > One issue I see is that the unit does not appear to work with
> > digital servos. Not sure how much of a limitation this is yet.
> >
> > Anyway, I thought I'd throw this out there for comments and ideas.
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> > 73 de Mark N9XTN
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> > weight: bold; line-height: 122%; margin: 10px 0px; } #ygrp-mkp
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> > { margin-bottom: 20px; padding: 0px; } #ygrp-reco #reco-head { font-
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> > none; } #ygrp-msg p#attach-count { clear: both; padding: 15px 0 3px
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Insert movie times and more without leaving Hotmail®.
http://windowslive.com/Tutorial/Hotmail/QuickAdd?ocid=TXT_TAGLM_WL_HM_Tutorial_QuickAdd1_052009

5284. Re: [GPSL] Ralph's 'retirement' / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 03:12:44 UTC
From: Dan Bowen
Topic: 5279 Message: 5284

This would also be highly useful for high gain antenna pointing and
laser communications.

Thanks,
Dan

On May 6, 2009, at 1:58 PM, Mark Conner wrote:

>
>
>
> Ralph, your dedication and service to ARHAB will be greatly missed.
> Your help has been invaluable to NSTAR over the past several years.
>
> A more-or-less offhand comment by Ralph recently led me off on a
> Google rabbit trail that may have paid off. On our NSTAR flight
> over the weekend, we got several photos of Paul's balloon which was
> a few thousand feet above us and 3-7 miles away. The balloon
> occupied maybe 9 pixels out of 7 million, but was definitely the
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> needed to do now was to come up with a means to aim and zoom a
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>
> This seemed a tractable problem for ARHAB (i.e., within a reasonable
> budget, sufficient off-the-shelf components, enough accuracy to meet
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> reliably getting pitch and yaw information on a platform that moves
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>

> This senses the infrared differences between sky and earth and
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>
> Anyway, I thought I'd throw this out there for comments and ideas.
>
> 73 de Mark N9XTN
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5285. Re: [GPSL] W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 03:19:26 UTC
From: Dan Bowen
Topic: 5274 Message: 5285

Ralph, I have always enjoyed your work immensely, you have provided wonderful historical continuity to ballooning with your records, and a concise constant status of it's future. Your meticulous record keeping and adjudicating are one of the main things that I feel have made this a fun, competitive, and progressive hobby. By knowing what the rest of the groups had done before, we were able to become motivated to extend the envelope of amateur balloon capabilities, without wondering if we were just reinventing the wheel.

Will you be coming to GPSL this year, Ralph?

Thanks,
Dan

On May 6, 2009, at 7:43 AM, Ralph Wallio, W0RPK wrote:

>
>
> Thanks for many years of fun in many ways but the time has come for
> me to retire from Amateur Radio
> High Altitude Ballooning including hosting and maintenance of ARHAB
> Launch Announcements and
> Records. I propose to make this effective the end of July 2009 but
> will stand-down sooner if a
> volunteer for Launch Announcements and Records hosting and
> maintenance comes forward before then.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@netINS.net W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>

5286. Re: [GPSL] W0RPK retiring from ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 05:24:09 UTC
From: Mike Manes
Topic: 5274 Message: 5286

Hi Ralph,

Well, you've certainly done a great job keeping this growing community of balloonatics in touch with one another and what they do for, yea, these many years, and we all owe you a major debt of gratitude for all that hard work. You have left some pretty outsized shoes to fill!

Can't say that I blame you, however. I, too, have grown weary. For what it's worth, I've stuck with EOSS for way longer than any wage-yielding organization ever in my life - coming up on 20 years next January.

Tnx es 73 es GL OM!
de Mike W5VSI

Ralph Wallio, W0RPK wrote:
> Thanks for many years of fun in many ways but the time has come for me to retire from Amateur Radio
> High Altitude Ballooning including hosting and maintenance of ARHAB Launch Announcements and
> Records. I propose to make this effective the end of July 2009 but will stand-down sooner if a
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> Hubbert's Peak - The Mother of all Perfect Storms
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5287. Re: [GPSL] Ralph's 'retirement' and ideas for a replacement website

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 06:31:08 UTC
From: wb8elk@aol.com
Topic: 5287 Message: 5287

Ralph...thanks for your tireless efforts in supporting and promoting ARHAB flights all these many years and maintaining the ARHAB website and records...it seems like yesterday when we first met after my first BalloonSat talk at the AMSAT conference ... I think in the late 80's or early 90's?

There will be a huge vacuum that would take all the helium in Texas to fill the void left by your absence with keeping the ARHAB site going. However, I do understand the Herculean task of keeping the ARHAB website current and I'm sure it's quite time-consuming what with the current level of ARHAB flights.

I would be happy to help continue the ARHAB website as long if some of our ARHAB web gurus could help code and design the ARHAB site to automate the announcements (with some moderator oversight to prevent SPAM)....I'd welcome any thoughts on how to implement this....as to Records page...we'll have to discuss best how to handle that as well.

If any of you can host the website on your server, I can point the domain name ARHAB.ORG to it in the future.

73's de

- Bill WB8ELK

**********Remember Mom this Mother's Day! Find a florist near you now. (http://yellowpages.aol.com/search?query=florist&ncid=emlcntusyelp00000006)

5288. Re: [GPSL] Camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 06:35:49 UTC
From: wb8elk@aol.com
Topic: 5288 Message: 5288

As to camera stabilization....Mark, I bought a handful of those IR sensors that were described in that article.....they are called Thermopiles....I will probably be flying them to see how well they work for payload stabilization in June or July. I got mine from Digikey:

Digikey Part No: MLX90247-ESF-DSA-ND

They will not work well in fog or rain... but for upper level balloon flights they should work quite well to establish a horizon reference.

- Bill WB8ELK

**********Remember Mom this Mother's Day! Find a florist near you now. (http://yellowpages.aol.com/search?query=florist&ncid=emlcntusyelp00000006)

5289. Re: [GPSL] Ralph's 'retirement' and ideas for a replacement website

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 12:10:44 UTC
From: Ryan Butler
Topic: 5287 Message: 5289

I had sent Ralph an email privately but I'd be willing to
host/maintain/develop the site in the future.

Ryan, NF0T

wb8elk@... wrote:
>
>
> Ralph...thanks for your tireless efforts in supporting and promoting
> ARHAB flights all these many years and maintaining the ARHAB website
> and records...it seems like yesterday when we first met after my
> first BalloonSat talk at the AMSAT conference ... I think in the late
> 80's or early 90's?
>
> There will be a huge vacuum that would take all the helium in Texas to
> fill the void left by your absence with keeping the ARHAB site going.
> However, I do understand the Herculean task of keeping the ARHAB
> website current and I'm sure it's quite time-consuming what with the
> current level of ARHAB flights.
>
> I would be happy to help continue the ARHAB website as long if some
> of our ARHAB web gurus could help code and design the ARHAB site
> to automate the announcements (with some moderator oversight to
> prevent SPAM)....I'd welcome any thoughts on how to
> implement this....as to Records page...we'll have to discuss best how
> to handle that as well.
>
> If any of you can host the website on your server, I can point the
> domain name ARHAB.ORG to it in the future.
>
> 73's de
>
> - Bill WB8ELK
>
>
>
>
> ---
> Remember Mom this Mother's Day! Find a florist near you now
> <http://yellowpages.aol.com/search?query=florist&ncid=emlcntusyelp00000006>.
>

5290. ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 12:49:35 UTC
From: Keith Kaiser
Topic: 5290 Message: 5290

After a eMail conversation with Ralph, I had volunteered to take over his responsibilities. He suggested I post my interest to the list, he also proposed the idea of an ad-hoc committee to find his replacement. I think this might be a good idea for a number of reasons I'm sure most of you can think of too.

So I propose that all those of us who are affected by Ralph's decision put our heads together and decide how we want to proceed. We need a couple of people to step up and say they are interested in the job, and we need a couple more people to lead a discussion about the choices. Below is Ralph's estimate on the effort involved with this job, this should help some decide if they can manage it or not.

From Ralph,
---- quote ----
Regarding time and effort, ARHAB Launch Announcements started Aug04 from which we are approaching 5-years which approaches 260-weeks. During this period there have been 765 Launch Announcement editions which averages almost 3-editions per week. My MS Office-XP Word production process is very crude compared to state-of-the-art web-authoring.

Information comes in via several paths:

-- Direct E-mail
-- Balloon_Sked, GPSL, KNSP, et al, list postings.
-- Individual group list postings (I subscribe to every list I know about)
-- Monitoring web pages
-- Occasional nagging for information

Some part of all this happens daily. Thinking about my process, a few hours a week seems a
reasonable estimate.

Maintaining ARHAB Records is a very different animal. There are comparatively few updates but each
requires investigative work. I have been accepting entries below our top-10 with little argument;
have been more demanding for entries approaching our top-10; and much much more demanding for
entries near the top of each competitive category.
---- end quote ----

First lets find a couple of people who are willing to be the committee and make the final decision, maybe Ralph would like to be one of them. As I am interested in the job itself, I'll not volunteer for this

position, but others should. I think the final decision should be made no later than GPSL, July 17-19.

Should this be a two person job?

73's
Keith Kaiser
wa0tjt@...

5291. Re: [GPSL] ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 13:53:53 UTC
From: L. Paul Verhage
Topic: 5290 Message: 5291

This definitely sounds like a multiple person job. Ralph, my hats off to you for making it work for so many years. There's not a lot I can do now with my job and going to school. And things will just get worse as GPSL approaches (by the way, thanks everyone for being willing to help move helium/hydrogen).

Paul

On Thu, May 7, 2009 at 7:49 AM, Keith Kaiser <wa0tjt@...> wrote:

> After a eMail conversation with Ralph, I had volunteered to take over
> his responsibilities. He suggested I post my interest to the list, he
> also proposed the idea of an ad-hoc committee to find his replacement.
> I think this might be a good idea for a number of reasons I'm sure
> most of you can think of too.
>
> So I propose that all those of us who are affected by Ralph's decision
> put our heads together and decide how we want to proceed. We need a
> couple of people to step up and say they are interested in the job,
> and we need a couple more people to lead a discussion about the
> choices. Below is Ralph's estimate on the effort involved with this
> job, this should help some decide if they can manage it or not.
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> about)
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> Some part of all this happens daily. Thinking about my process, a few
> hours a week seems a
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> Maintaining ARHAB Records is a very different animal. There are

> comparatively few updates but each
> requires investigative work. I have been accepting entries below our
> top-10 with little argument;
> have been more demanding for entries approaching our top-10; and much
> much more demanding for
> entries near the top of each competitive category.
> ---- end quote ----
>
>
> First lets find a couple of people who are willing to be the committee
> and make the final decision, maybe Ralph would like to be one of them.
> As I am interested in the job itself, I'll not volunteer for this
> position, but others should. I think the final decision should be made
> no later than GPSL, July 17-19.
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> Should this be a two person job?
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
>
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>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Onwards and Upwards,
Paul

5292. Re: [GPSL] ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 14:02:59 UTC
From: Joe
Topic: 5290 Message: 5292

I can get probably Free server space,
(well a small banner shows up on the bottom of the page)

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> This definitely sounds like a multiple person job. Ralph, my hats off
> to you for making it work for so many years. There's not a lot I can
> do now with my job and going to school. And things will just get
> worse as GPSL approaches (by the way, thanks everyone for being
> willing to help move helium/hydrogen).
>
> Paul
>
> On Thu, May 7, 2009 at 7:49 AM, Keith Kaiser <wa0tjt@...
> <mailto:wa0tjt@...>> wrote:
>
> After a eMail conversation with Ralph, I had volunteered to take over
> his responsibilities. He suggested I post my interest to the list, he
> also proposed the idea of an ad-hoc committee to find his replacement.
> I think this might be a good idea for a number of reasons I'm sure
> most of you can think of too.
>
> So I propose that all those of us who are affected by Ralph's decision
> put our heads together and decide how we want to proceed. We need a
> couple of people to step up and say they are interested in the job,
> and we need a couple more people to lead a discussion about the
> choices. Below is Ralph's estimate on the effort involved with this
> job, this should help some decide if they can manage it or not.
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> from which we are approaching 5-years which approaches 260-weeks.
> During this period there have been 765 Launch Announcement editions
> which averages almost 3-editions per week. My MS Office-XP Word
> production process is very crude compared to state-of-the-art web-
> authoring.
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> about)
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> Some part of all this happens daily. Thinking about my process, a few
> hours a week seems a
> reasonable estimate.
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> Maintaining ARHAB Records is a very different animal. There are
> comparatively few updates but each
> requires investigative work. I have been accepting entries below our
> top-10 with little argument;
> have been more demanding for entries approaching our top-10; and much
> much more demanding for
> entries near the top of each competitive category.
> ---- end quote ----
>
>
> First lets find a couple of people who are willing to be the committee
> and make the final decision, maybe Ralph would like to be one of them.
> As I am interested in the job itself, I'll not volunteer for this
> position, but others should. I think the final decision should be made
> no later than GPSL, July 17-19.
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> Should this be a two person job?
>
>
> 73's
> Keith Kaiser
> wa0tjt@... <mailto:wa0tjt@...>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
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>
>
> --
> Onwards and Upwards,

> Paul
>
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>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.323 / Virus Database: 270.12.21/2102 - Release Date: 05/07/09 05:57:00
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>
>

5293. Re: [GPSL] ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 14:47:10 UTC
From: Keith Kaiser
Topic: 5290 Message: 5293

I'm not sure hosting is an issue but in case it is I've checked with
Troy Campbell he has agreed to host the sites necessary. As you know
he already hosts a number of sites for the ballooning community,
including the GPSL 2009 and before that 2008 sites.

But it's good to know others can do this part as well... so thank you
Joe.

On May 7, 2009, at 9:02 AM, Joe wrote:

>
>
> I can get probably Free server space,
> (well a small banner shows up on the bottom of the page)
>
> Joe WB9SBD
> Near Space Sciences
>
> L. Paul Verhage wrote:
>
>> This definitely sounds like a multiple person job. Ralph, my hats
>> off to you for making it work for so many years. There's not a lot
>> I can do now with my job and going to school. And things will just
>> get worse as GPSL approaches (by the way, thanks everyone for being
>> willing to help move helium/hydrogen).
>>
>> Paul
>>
>>
>> On Thu, May 7, 2009 at 7:49 AM, Keith Kaiser <wa0tjt@...>
>> wrote:
>> After a eMail conversation with Ralph, I had volunteered to take over
>> his responsibilities. He suggested I post my interest to the list, he
>> also proposed the idea of an ad-hoc committee to find his
>> replacement.
>> I think this might be a good idea for a number of reasons I'm sure
>> most of you can think of too.
>>
>> So I propose that all those of us who are affected by Ralph's
>> decision
>> put our heads together and decide how we want to proceed. We need a
>> couple of people to step up and say they are interested in the job,
>> and we need a couple more people to lead a discussion about the
>> choices. Below is Ralph's estimate on the effort involved with this
>> job, this should help some decide if they can manage it or not.
>>

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>> ---- quote ----
>> Regarding time and effort, ARHAB Launch Announcements started Aug04
>> from which we are approaching 5-years which approaches 260-weeks.
>> During this period there have been 765 Launch Announcement editions
>> which averages almost 3-editions per week. My MS Office-XP Word
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>> Some part of all this happens daily. Thinking about my process, a
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>> have been more demanding for entries approaching our top-10; and much
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>> entries near the top of each competitive category.
>> ---- end quote ----
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>>
>> First lets find a couple of people who are willing to be the
>> committee
>> and make the final decision, maybe Ralph would like to be one of
>> them.
>> As I am interested in the job itself, I'll not volunteer for this
>> position, but others should. I think the final decision should be
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>> no later than GPSL, July 17-19.
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>> Should this be a two person job?
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>> 73's
>> Keith Kaiser
>> wa0tjt@...
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>> ------------------------------------
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>> Yahoo! Groups Links
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>> Onwards and Upwards,
>> Paul
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>>
>
>

73's
Keith Kaiser
wa0tjt@...

5294. Re: [GPSL] ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 14:51:02 UTC
From: Joe
Topic: 5290 Message: 5294

Cool,,

Keith Kaiser wrote:

>
>
> I'm not sure hosting is an issue but in case it is I've checked with
> Troy Campbell he has agreed to host the sites necessary. As you know
> he already hosts a number of sites for the ballooning community,
> including the GPSL 2009 and before that 2008 sites.
>
> But it's good to know others can do this part as well... so thank you Joe.
>
> On May 7, 2009, at 9:02 AM, Joe wrote:
>
>>
>>
>> I can get probably Free server space,
>> (well a small banner shows up on the bottom of the page)
>>
>> Joe WB9SBD
>> Near Space Sciences
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>> L. Paul Verhage wrote:
>>
>>> This definitely sounds like a multiple person job. Ralph, my hats
>>> off to you for making it work for so many years. There's not a lot
>>> I can do now with my job and going to school. And things will just
>>> get worse as GPSL approaches (by the way, thanks everyone for being
>>> willing to help move helium/hydrogen).
>>>
>>> Paul
>>>
>>> On Thu, May 7, 2009 at 7:49 AM, Keith Kaiser <wa0tjt@...
>>> <mailto:wa0tjt@...>> wrote:
>>>
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>>> replacement.
>>> I think this might be a good idea for a number of reasons I'm sure
>>> most of you can think of too.
>>>

>>> So I propose that all those of us who are affected by Ralph's
>>> decision
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>>> couple of people to step up and say they are interested in the job,
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>>> reasonable estimate.
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>>> Maintaining ARHAB Records is a very different animal. There are
>>> comparatively few updates but each
>>> requires investigative work. I have been accepting entries
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>>> have been more demanding for entries approaching our top-10; and
>>> much
>>> much more demanding for
>>> entries near the top of each competitive category.
>>> ---- end quote ----
>>>
>>>
>>> First lets find a couple of people who are willing to be the
>>> committee
>>> and make the final decision, maybe Ralph would like to be one of
>>> them.
>>> As I am interested in the job itself, I'll not volunteer for this
>>> position, but others should. I think the final decision should

>>> be made
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>>> Should this be a two person job?
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>>> 73's
>>> Keith Kaiser
>>> wa0tjt@... <mailto:wa0tjt@...>
>>>
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>> (Yahoo! ID required)
>>>
>>> mailto:GPSL-fullfeatured@yahoogroups.com
>>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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>>> Onwards and Upwards,
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5295. / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 15:18:53 UTC
From: K. Mark Caviezel
Topic: 5295 Message: 5295

Mark:
You'll likely be able to dramatically improve the quality of the photography by going to a much more stable balloon platform. My first choice would be an air-filled solar balloon. My 1700 cubic foot tetroons are over 100 pounds mass at launch (mass of the air inside the envelope is the majority of the vehicle mass), and a zero pressure floater would be my next recommendation. I have a collection of video shot from ZPs at float- it is a very very stable platform!

best regards,

- Mark Caviezel ng0x

5296. Re: [GPSL] / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-07 15:22:35 UTC
From: Joe
Topic: 5295 Message: 5296

Hi mark,

any links to the videos?

Joe

K. Mark Caviezel wrote:

>Mark:
>You'll likely be able to dramatically improve the quality of the photography by going to a much more stable balloon platform. My first choice would be an air-filled solar balloon. My 1700 cubic foot tetroons are over 100 pounds mass at launch (mass of the air inside the envelope is the majority of the vehicle mass), and a zero pressure floater would be my next recommendation. I have a collection of video shot from ZPs at float- it is a very very stable platform!
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>best regards,
>
>- Mark Caviezel ng0x
>
>
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>

5297. solar balloon video and others... Re: / camera stabilization/aiming

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-08 14:27:21 UTC
From: K. Mark Caviezel
Topic: 5297 Message: 5297

Joe:
Sorry, I'm at a location rt now that blocks youtube.
But it's easy to see the video.
Get on youtube. Then search for my ID, kmcaviezel.
Voila, you'll see the solar balloon video offered as a choice. There is also a launch video from the ARHAB displacement record holding 126,000 cubic foot balloon launched back at GPSL 2003, and a view of an ARHAB-class cutdown system pressed into service to cut down a 400 pound payload in the shop.

best

- Mark

5298. Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-12 23:11:15 UTC
From: jjdemeyer
Topic: 5290 Message: 5298

There may be some opportunity for some automation in the updates and record keeping. As Ralph mentions, some of the modern methods of web site maintenance could reduce the effort. Some candidates for automation would be

- collecting launch information through a web page with automated posting (maybe after a manual review before posting)
- flight records maintenance
- collecting flight information through a web page

I would like to participate in these discussions if we find them valuable.

Joe
Surfing Satellites

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Cool,,
>
> Keith Kaiser wrote:
>
> > >
> > >
> > > I'm not sure hosting is an issue but in case it is I've checked with
> > > Troy Campbell he has agreed to host the sites necessary. As you know
> > > he already hosts a number of sites for the ballooning community,
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> > >> Joe WB9SBD
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> > >> L. Paul Verhage wrote:
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> > >>> This definitely sounds like a multiple person job. Ralph, my hats
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> > >>> willing to help move helium/hydrogen).

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> >>> Paul
> >>>
> >>> On Thu, May 7, 2009 at 7:49 AM, Keith Kaiser <wa0tjt@...
> >>> <mailto:wa0tjt@...>> wrote:
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> >>> After a eMail conversation with Ralph, I had volunteered to take
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> >>> -- Monitoring web pages
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> >>> Some part of all this happens daily. Thinking about my process,
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> >>> hours a week seems a
> >>> reasonable estimate.
> >>>
> >>> Maintaining ARHAB Records is a very different animal. There are
> >>> comparatively few updates but each
> >>> requires investigative work. I have been accepting entries

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> >>> entries near the top of each competitive category.
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> >>> First lets find a couple of people who are willing to be the
> >>> committee
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> >>> them.
> >>> As I am interested in the job itself, I'll not volunteer for this
> >>> position, but others should. I think the final decision should
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> >>> Should this be a two person job?
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> >>> 73's
> >>> Keith Kaiser
> >>> wa0tjt@... <mailto:wa0tjt@...>
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> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
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> >>> (Yahoo! ID required)
> >>>
> >>> mailto:GPSL-fullfeatured@yahoogroups.com
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> >>>
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> >>> Onwards and Upwards,
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5299. Re: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-12 23:28:19 UTC
From: L. Paul Verhage
Topic: 5290 Message: 5299

Is this a time to look at creating a ARHAB organization (ARHAB NA) to
combine everything we do?

Paul

On Tue, May 12, 2009 at 6:11 PM, jjdemeyer <jjdemeyer@...> wrote:

> There may be some opportunity for some automation in the updates and record
> keeping. As Ralph mentions, some of the modern methods of web site
> maintenance could reduce the effort. Some candidates for automation would
> be
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> - collecting launch information through a web page with automated posting
> (maybe after a manual review before posting)
> - flight records maintenance
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> I would like to participate in these discussions if we find them valuable.
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> Joe
> Surfing Satellites
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> --- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> > Cool,,
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> > Keith Kaiser wrote:
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> > > Troy Campbell he has agreed to host the sites necessary. As you know
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> > > including the GPSL 2009 and before that 2008 sites.
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> > > On May 7, 2009, at 9:02 AM, Joe wrote:
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> > >> I can get probably Free server space,
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> > >> Joe WB9SBD
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> > >>> off to you for making it work for so many years. There's not a lot
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> > >>> Information comes in via several paths:

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> > >>> -- Direct E-mail
> > >>> -- Balloon_Sked, GPSL, KNSP, et al, list postings.
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> > >>> Yahoo! Groups Links
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> > >>>No virus found in this incoming message.
> > >>>Checked by AVG - www.avg.com
> > >>>Version: 8.5.323 / Virus Database: 270.12.21/2102 - Release Date:
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Onwards and Upwards,
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5300. Re: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-12 23:55:14 UTC
From: Joe
Topic: 5290 Message: 5300

I'm in
Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

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5301. Re: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-13 00:54:23 UTC
From: wb8elk@aol.com
Topic: 5290 Message: 5301

Hi Paul,

The ARHAB organizations sounds like a good idea....could be a good topic of discussion at GPSL this year.

I think having a way to automatically enter in your launch data on a website form is a good way to keep workload for the Announcement Page moderator, who would probably have to review the announcement before it posts to prevent SPAM listings (if there is more than one of us with moderator status, then if one is away on a trip, the other (or others) can approve the listing in a timely manner)....same goes for the Records Page....one or more of us could form a Records panel review team to review the data.

Another less time-consuming way to prevent spam on an automated Launch Announcements page would be to have whoever wants to post an announcement to create a logon name with password on the site...which could require a moderator (or moderators) to approve the logon registration name on a one-time basis. That way, it would completely automate the announcement process for registered and approved people and the announcement could immediately post....of course, the moderator could always have the power to remove a questionable posting or eliminate a Spammer logon name that somehow manages to get approved. This is basically the way that Yahoogroups do their Forums.

- Bill WB8ELK

**********Recession-proof vacation ideas. Find free things to do in the U.S.
(http://travel.aol.com/travel-ideas/domestic/national-tourism-week?ncid=emlcntustrav00000002)

5302. Re: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-13 01:14:15 UTC
From: Mark Conner
Topic: 5290 Message: 5302

Using a content management system (CMS) like Joomla provides for a lot of these sorts of things. The site administrators can approve user accounts, and users can post their own articles to some portions of the site (e.g., launch announcements, record submissions, etc). Some sort of form entry is probably needed to enforce the launch date/time entry info so that the software can place the entries in time order. The entries could be placed in a table like Ralph's page, plus appear on a calendar (sort of like MS Outlook's calendar).

Administrators can exert more control over other portions of the site if desired (general ARHAB info, etc). I have not used a lot of the Joomla features yet, but there are a lot of community-contributed software addons which would make the site consistent and nice-looking and still provide for secure user-edited contributions.

73 de Mark N9XTN

On Tue, May 12, 2009 at 19:54, <wb8elk@...> wrote:

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> remove a questionable posting or eliminate a Spammer logon name that somehow
> manages to get approved. This is basically the way that Yahoogroups do their
> Forums.
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> - Bill WB8ELK
>
>

5303. RE: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-13 07:45:23 UTC
From: Rick von Glahn
Topic: 5290 Message: 5303

I've been poking around www.squarespace.com for a while It is amazingly simple to customize a CMS driven website. I'm forever stuck in the '90s with FrontPage over at the EOSS website. It's so big it will be a super pain to move someday but I keep peeking at new stuff. Squarespace seems pretty spiffy. The main problem, they host. You can't buy SquareSpace as you would with Joomla, Wordpress, Drupal and run it on your own machine. This offers advantages and disadvantages. Something we don't have to worry about, they can actively scale the site under heavy loads to serve a really big bump in crowds. Kind of like how you can clone virtual machines at Amazon and spread out your bandwidth exposure to multiple machines to handle heavy loading. But on Amazon you would have to handle that manually, Square space apparently can handle stuff like that in realtime. This is nice if you get "Dugg" or Slashdotted or something along those lines.

Anyway, it is the rage for its wysiwyg design metaphore. You can assign multiple "sysops", handy if you want to kick someone out. No global password except for the true site boss. They offer a 15 day free trial. But if you like it you will have to pony up between $14 to $30 per month. The expense is probably a killer since we have offers of free hosting but, the capabilities are really nice.

Just something for possible webmasters of this project to contemplate.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Tuesday, May 12, 2009 7:14 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: ARHAB Postings and Records and Ralph's Retirement

Using a content management system (CMS) like Joomla provides for a lot of these sorts of things. The site administrators can approve user accounts, and users can post their own articles to some portions of the site (e.g., launch announcements, record submissions, etc). Some sort of form entry is probably needed to enforce the launch date/time entry info so that the software can place the entries in time order. The entries could be placed in a table like Ralph's page, plus appear on a calendar (sort of like MS Outlook's calendar).

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On Tue, May 12, 2009 at 19:54, <wb8elk@...> wrote:

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- Bill WB8ELK

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.27/2111 - Release Date: 05/12/09 18:03:00

5304. ARHAB Balloon Dinner Saturday night at the Dayton Hamvention

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-13 17:14:59 UTC
From: wb8elk@aol.com
Topic: 5304 Message: 5304

We will be meeting Saturday night May 16th after the Hamvention starting around 6:30 pm at the following restaurant:

Good Asian Buffet
6999 Miller Lane
Dayton, OH 45414

(937) 898-1888□

It might also be named: Asian Buffet and Grill

This is just west of I-75 and just south of I-70 on Miller Lane (just south of Dog Leg road) where there is quite a restaurant row.

We may have the capability of showing photos and powerpoint presentations if we can get access to a private room...so bring along some photos or info to share if you'd like.

- Bill WB8ELK

**********Recession-proof vacation ideas. Find free things to do in the U.S.
(http://travel.aol.com/travel-ideas/domestic/national-tourism-week?ncid=emlcntustrav00000002)

5305. UAV's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 00:40:54 UTC
From: Joe
Topic: 5305 Message: 5305

Who had the latest and greatest regs regarding UAV's?

joe

5306. Re: [GPSL] UAV's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 06:43:35 UTC
From: Mike Manes
Topic: 5305 Message: 5306

Hi Joe,

Here's a link to the FAA's Unmanned Aircraft Office site which has all
the latest dope:

http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/air/hq/engineering/uapo/

73 de Mike W5VSI
CTO EOSS

Joe wrote:
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5307. Re: [GPSL] UAV's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 06:53:48 UTC
From: Mike Manes
Topic: 5305 Message: 5307

PS: Order 1110.150 of 4/10/08 is the most recent release. It establishes a rulemaking committee comprising representatives of gov't, commercial and user organizations - and I doubt that ARHAB has a seat there.

73 de Mike W5VSI

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Mike Manes mrmanes@... Tel: 303-979-4899
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5308. EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 11:47:25 UTC
From: Pete Lilja
Topic: 5308 Message: 5308

Some time ago there was a posting with a link to a web site showing the construction of a balloon tether release using modified plumbing parts on one of these balloon Yahoo groups. As I recall the web site was not in English (French, IIRC) and I'm having no luck now finding that link or web site.

Can anyone help? Is my description clear enough?

Pete
KCØGPB

5309. Re: [GPSL] EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 13:37:13 UTC
From: Mike Manes
Topic: 5308 Message: 5309

IIRC, it was from one of the balloon groups in Ontario, Canada. Might check Ralph's web site to find it.
73 de Mike W5VSI, EOSS

Pete Lilja wrote:
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> construction of a balloon tether release using modified plumbing parts
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5310. Re: [GPSL] EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 13:34:45 UTC
From: Bruce Coates
Topic: 5308 Message: 5310

Hi Pete

The project was done by members of Ballon Radio Amateur du Quebec, http://raqi.ca/braq . I recall seeing it on one of their pages but can't find it at the moment. They have contact information on their site.

73, Bruce
VE5BNC

----- Original Message -----
From: Pete Lilja
To: GPSL@yahoogroups.com
Sent: Thursday, May 14, 2009 5:47 AM
Subject: [GPSL] EZ Balloon Release

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5311. Re: [GPSL] UAV's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 14:53:09 UTC
From: Joe
Topic: 5305 Message: 5311

I have a few thoughts and questions when it comes to UAV's

It is quite amazing the mindset of the FAA when it comes to UAV operations. There is something desperately wrong here. I fully understand the need for air safety. And have absolutely no problems with that of course. But what I fail to see the logic is the more or less total BAN on amateur UAV development. Or should I say High Altitude UAV development. I guess if you stay below 400 feet you are Ok. But this is the part I do not understand.

Someone can launch, and do all the time already totally legally by the way with the blessings of the FAA. Hundreds happen every day with yet a to be known incident. We are looking here litterally thousands of flights a year. Balloons that carry payloads up to 6 pounds each, and up to 12 pounds if multiple payloads. And use balloons that are anywhere from only a pound or two to balloons that weigh hundreds of pounds even!

Anyone can do this, and as I stated already do legally.

But to do a UAV at altitudes that the balloons reach up to 120,000 feet someone can not do. Of course above 60,000 is un controlled airspace. And you should be able to do anything you want. But you need to travel through 0 to 60,000 first.

But the part the FAA has NOT given is an explanation to is this. two examples,

Example 1

Someone fly's a 4 pound experimental payload via a balloon, It rises at a speed of anywhere between 500 to 1500 feet per minute, exactly how fast the rise is, is not too controllable, all depends on the lift placed in the balloon. The flight path is totally determined by the winds aloft. Whatever way the wind is blowing is the direction the balloon will go they have absolutely no control over this. The balloon reaches max altitude, and either pops or is terminated, (depends on the type of the balloon) and the payload starts to come down via a parachute. again totally un controllable, where it falls is totally dependent of fall rate and the winds aloft again. eventually landing wherever it lands,,

This is ABSOLUTELY LEGAL

Example 2

Using the EXACT same guidelines as the example for payload weight , weight densities, etc, it falls easily into the legal definition of the

above balloon flight in every way. But with one change, After separation from the balloon we someone is able to steer the payload. Be it a standard payload with a parafoil type of parachute where they can steer it to directions they want. Or taking it one step further a true UAV glider where it still meets all the spec's needed to be legal,as in a un manned free balloon payload type of flight, but now is in the shape of the airplane glider. So again it's steerable!

This Example is absolutely ILLEGAL and FORBIDDEN!!!

Why?

Ok we are thinking of safety,, which would you rather have,

1- a 4 pound box falling via a parachute to wherever it falls no matter where it is..and they do! I have Known of them land on tollways,, I have known of them land between taxi ways at OHARE international airport, Even at a Nuke plant where they called out the bomb squads to check it out. But this is all fine and OK and no one has a problem with it BUT.....

2- take a 4 pound glider, and as it's coming down if it looks like it might be going somewhere not safe,, an airport, or major approach or departure lane,, or any other not too safe situation so you decide to steer it so it does NOT go there. Sounds great huh? But IN THE FAA'S EYES THIS IS TOTALLY ILLEGAL.

Can anyone at all see any logic in this?

Maybe I see we haul the glider up to 100 K drop it, fly it wherever we wish until it gets to 60 K then let go of the controls, and let it go wherever it does, then once it's below 400 feet then control it again and land it he he he

Drop me a note with a copy of what you reply to this please. send it to,

nss@...

The total logic just escapes me.

Mike Manes wrote:

>PS: Order 1110.150 of 4/10/08 is the most recent release. It establishes
>a rulemaking committee comprising representatives of gov't, commercial and
>user organizations - and I doubt that ARHAB has a seat there.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>Who had the latest and greatest regs regarding UAV's?
>>

>>joe
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>>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.336 / Virus Database: 270.12.28/2113 - Release Date: 05/13/09 18:04:00
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5312. Re: [GPSL] UAV's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-14 19:19:41 UTC
From: Mike Manes
Topic: 5305 Message: 5312

Hi Joe,

You're correct re the UAV regs vs FAR-101. It appears that the folks who developed the UAV regs were totally unaware of the "other" unmanned aircraft regulation, which carries the force of federal law, rather than being an agency policy.

It's not as though I failed to point that out to them during the NPRM comment period, however. Where was YOUR voice back then?

I think the easy way to distinguish UAVs from Part 101 aircraft would be whether there's powered flight or not. There may have to be some exemption for model rockets, however.

73 de Mike W5VSI

Joe wrote:
>
>
> I have a few thoughts and questions when it comes to UAV's
>
> It is quite amazing the mindset of the FAA when it comes to UAV
> operations. There is something desperately wrong here. I fully
> understand the need for air safety. And have absolutely no problems with
> that of course. But what I fail to see the logic is the more or less
> total BAN on amateur UAV development. Or should I say High Altitude UAV
> development. I guess if you stay below 400 feet you are Ok. But this is
> the part I do not understand.
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> way with the blessings of the FAA. Hundreds happen every day with yet a
> to be known incident. We are looking here litterally thousands of
> flights a year. Balloons that carry payloads up to 6 pounds each, and up
> to 12 pounds if multiple payloads. And use balloons that are anywhere
> from only a pound or two to balloons that weigh hundreds of pounds even!
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> Anyone can do this, and as I stated already do legally.
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> But to do a UAV at altitudes that the balloons reach up to 120,000 feet
> someone can not do. Of course above 60,000 is un controlled airspace.
> And you should be able to do anything you want. But you need to travel
> through 0 to 60,000 first.
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> But the part the FAA has NOT given is an explanation to is this. two
> examples,
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> Example 1
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> Someone fly's a 4 pound experimental payload via a balloon, It rises at
> a speed of anywhere between 500 to 1500 feet per minute, exactly how
> fast the rise is, is not too controllable, all depends on the lift
> placed in the balloon. The flight path is totally determined by the
> winds aloft. Whatever way the wind is blowing is the direction the
> balloon will go they have absolutely no control over this. The balloon
> reaches max altitude, and either pops or is terminated, (depends on the
> type of the balloon) and the payload starts to come down via a
> parachute. again totally un controllable, where it falls is totally
> dependent of fall rate and the winds aloft again. eventually landing
> wherever it lands,,
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> This is ABSOLUTELY LEGAL
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> Example 2
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> Using the EXACT same guidelines as the example for payload weight ,
> weight densities, etc, it falls easily into the legal definition of the
> above balloon flight in every way. But with one change, After separation
> from the balloon we someone is able to steer the payload. Be it a
> standard payload with a parafoil type of parachute where they can steer
> it to directions they want. Or taking it one step further a true UAV
> glider where it still meets all the spec's needed to be legal,as in a un
> manned free balloon payload type of flight, but now is in the shape of
> the airplane glider. So again it's steerable!
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> This Example is absolutely ILLEGAL and FORBIDDEN!!!
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> Why?
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> Ok we are thinking of safety,, which would you rather have,
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> 1- a 4 pound box falling via a parachute to wherever it falls no matter
> where it is..and they do! I have Known of them land on tollways,, I have
> known of them land between taxi ways at OHARE international airport,
> Even at a Nuke plant where they called out the bomb squads to check it
> out. But this is all fine and OK and no one has a problem with it
> BUT........
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> 2- take a 4 pound glider, and as it's coming down if it looks like it
> might be going somewhere not safe,, an airport, or major approach or
> departure lane,, or any other not too safe situation so you decide to
> steer it so it does NOT go there. Sounds great huh? But IN THE FAA'S
> EYES THIS IS TOTALLY ILLEGAL.
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> Can anyone at all see any logic in this?
>
> Maybe I see we haul the glider up to 100 K drop it, fly it wherever we

> wish until it gets to 60 K then let go of the controls, and let it go
> wherever it does, then once it's below 400 feet then control it again
> and land it he he he
>
> Drop me a note with a copy of what you reply to this please. send it to,
>
> nss@...
>
> The total logic just escapes me.
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> Mike Manes wrote:
>> PS: Order 1110.150 of 4/10/08 is the most recent release. It establishes
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

5313. Re: EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-18 21:57:32 UTC
From: Hank
Topic: 5308 Message: 5313

> Some time ago there was a posting with a link to a web site showing
> the construction of a balloon tether release using modified plumbing > parts on one of these balloon Yahoo groups.

Pete,

Please see this webpage

http://raqi.ca/braq/modules/separateur/separateur.htm

For the relevant messages here on GPSL, search the message archives
using this phrase: "braq fast release"

Hank

5314. Re: [GPSL] Re: EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-19 00:39:42 UTC
From: Mike Manes
Topic: 5308 Message: 5314

Thanks for digging that up. It's not real clear how that gizmo works, but it seems that depends on the weight of the long end of the piano wire to complete the separation, but that happens only after the two brass pieces are pushed together - not sure how that happens during a burst but not before launch.
73 de Mike W5VSI

Hank wrote:
>> Some time ago there was a posting with a link to a web site showing
>> the construction of a balloon tether release using modified plumbing > parts on one of these balloon Yahoo groups.
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> Pete,
>
> Please see this webpage
>
> http://raqi.ca/braq/modules/separateur/separateur.htm
>
> For the relevant messages here on GPSL, search the message archives
> using this phrase: "braq fast release"
>
> Hank
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5315. Re: EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-19 17:09:21 UTC
From: Hank
Topic: 5308 Message: 5315

> Thanks for digging that up. It's not real clear how that
> gizmo works, but it seems that depends on the weight of the long
> end of the piano wire to complete the separation, but that happens > only after the two brass pieces are pushed together - not sure how > that happens during a burst but not before launch.

Hi Mike,

This time around I thought a bit about the mechanism and the dynamics and my best guess is that the weight of the piano wire is indeed pivotal (no pun intended) to the unlocking movement exactly as you've said.

Moreover, I believe the video is perhaps a bit misleading in that the small push motion is not needed in the actual situation, but what *is* required is simply the *untensioning* of the line together with the weight of what the inventor refers to as the piano wire tail:

"The tail of the pin must be folded up, as this acts as excess weight and switch to unlock the pin assembly." [Google translation from the French]

I think it was too tempting (in the making of the demo video) to use the small upward push to *force* the rotation of the locking pin for the purposes of the video, rather than the true situation of there merely being a release of the line tension occuring together with the pin tail swinging down "of its own accord" (by gravity).

So the video illustrates the pin tail being forced to rotate down (clockwise) by the action of the inclined cut in the brass part which in turn depends on an upward push of the lower coupler brass part, when in fact the desired action is the reverse where the pin tail rotation is the *initiating* movement, not a *resulting* movement.

Hank

5316. NASA balloon spotted over AZ/NM

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-19 17:13:49 UTC
From: Mark Conner
Topic: 5316 Message: 5316

UFO Reported in Arizona, New Mexico

Tuesday , May 19, 2009

PHOENIX —
NASA officials say it wasn't an alien spacecraft people in Arizona and New Mexico spotted floating far above them in the clear blue sky, just a giant research balloon.

Federal Aviation Administration spokesman Ian Gregor says he got calls about the object all afternoon Monday.

Bill Stepp of NASA's Columbia Scientific Balloon Facility in Palestine, Texas, says the mysterious flying orb was a 4,000-pound NASA research balloon used to measure gamma ray emissions.

Stepp says the balloon usually floats at 130,000 feet and can be seen for about 170 miles on a clear day.

Jennifer McCoy, who runs a UFO-themed Store in Sedona with her husband, says it "looked like the gigantic bubble from the Wizard of Oz."

5317. Re: [GPSL] NASA balloon spotted over AZ/NM

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-19 19:17:55 UTC
From: Luis Eduardo Pacheco
Topic: 5316 Message: 5317

Yes It cause quite a conmotion in NM and AZ.

A brief report on the flight is available at
http://stratocat.com.ar/indexe.html

Cheers

Luis

2009/5/19, Mark Conner <mconner1@...>:
>
>
>
> UFO Reported in Arizona, New Mexico
>
> *Tuesday , May 19, 2009*
>
> PHOENIX —
> NASA officials say it wasn't an alien spacecraft people in Arizona and New
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> Federal Aviation Administration spokesman Ian Gregor says he got calls
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> balloon used to measure gamma ray emissions.
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> Stepp says the balloon usually floats at 130,000 feet and can be seen for
> about 170 miles on a clear day.
>
> Jennifer McCoy, who runs a UFO-themed Store in Sedona with her husband,
> says it "looked like the gigantic bubble from the Wizard of Oz."
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5318. Re: [GPSL] Re: EZ Balloon Release

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-20 04:48:35 UTC
From: Mike Manes
Topic: 5308 Message: 5318

Hi Nick,

Au contraire, mon frere,

At the start of the video, he demos how tension on the line keeps the parts together, and they stay together after tension is released. The locking wire only rotates CW to open the joint AFTER the brass pieces are pushed together. I guess one would have to dupe one of those assemblies to find out for sure. I was at A&A TP (now Ace H/W) today - shoulda looked for those adaptors.

It's also interesting to see the skinny line that they use - gotta be 50# tensile max - and the 1 ohm 1/2W resistor that they use as a cutter. Sure wouldn't survive a Hail Mary launch, even with an exempt payload.

73 de Mike W5VSI

Hank wrote:
>> Thanks for digging that up. It's not real clear how that
>> gizmo works, but it seems that depends on the weight of the long
>> end of the piano wire to complete the separation, but that happens > only after the two brass pieces are pushed together - not sure how > that happens during a burst but not before launch.
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> the small push motion is not needed in the actual situation, but
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> piano wire tail:
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> "The tail of the pin must be folded up, as this acts as excess
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> part which in turn depends on an upward push of the lower coupler brass part, when in fact the desired action is the reverse where
> the pin tail rotation is the *initiating* movement, not a
> *resulting* movement.
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> Hank
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5319. Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-20 19:21:24 UTC
From: Jeff Dailey
Topic: 5319 Message: 5319

Taylor University has a launch going on today at 2:00PM.
Flight #174
Thunder training flight.
APRS: KB9ZNZ-3

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5320. N5NTI-11 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-22 14:59:12 UTC
From: Harry M
Topic: 5320 Message: 5320

Rogers, Arkansas
Northwest Tech. Institute
N5NTI-11 is in the air.

73 Harry KC5TRB

5321. Re: [GPSL] N5NTI-12 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-22 15:50:19 UTC
From: Harry M
Topic: 5321 Message: 5321

N5NTI-12 is also on this flight.

"LIFE IS NOT A JOURNEY TO THE GRAVE WITH THE INTENTION OF
ARRIVING SAFELY IN A PRETTY AND WELL PRESERVED BODY, BUT
RATHER TO SLIDE IN BROADSIDE, THOROUGHLY USED UP, TOTALLY
WORN OUT, AND LOUDLY PROCLAIMING----WOW----WHAT A RIDE!!!"

5322. Hotel in Topeka

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-24 22:37:59 UTC
From: Zack Clobes
Topic: 5322 Message: 5322

I was just wondering what people were doing for hotel in Topeka. It looks like the Motel 6 next door to the Quality Inn is going for $42-$46 a night (weekdays are cheaper). Reviews on both seem to be consistent with an average budget hotel.

Zack Clobes, W0ZC

5323. Re: [GPSL] Hotel in Topeka

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-24 23:03:57 UTC
From: Harry M
Topic: 5322 Message: 5323

Hi Zack,

ORB/NWTI have reservations at the Quality Inn (KS048) 1240 S. W. Wanamaker Rd.

73 Harry KC5TRB

5324. Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-27 19:39:59 UTC
From: L. Paul Verhage
Topic: 5324 Message: 5324

My article is coming out in either July or September. Meanwhile, I created a four minute movie about the test chamber and uploaded it to YouTube under my channel.

You can either go to www.youtube.com/nearsys or http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
--
Onwards and Upwards,
Paul

5325. Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-27 19:39:55 UTC
From: L. Paul Verhage
Topic: 5324 Message: 5325

My article is coming out in either July or September. Meanwhile, I created a four minute movie about the test chamber and uploaded it to YouTube under my channel.

You can either go to www.youtube.com/nearsys or http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
--
Onwards and Upwards,
Paul

5326. Re: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 02:23:12 UTC
From: Mike Manes
Topic: 5324 Message: 5326

Nicely done, Paul. Nicely done!

Recommend you get get a better vacuum guage, however. The Honeywell
15 psia conditioned transducer and a 200.0 mV DPM make a pretty handy
test instrument, and my wife Diann uses the DPM direct input to read the
Type K thermocouple voltage when she's firing her pottery kiln.

73 de Mike W5VSI
CTO EOSS

L. Paul Verhage wrote:
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> YouTube under my channel.
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> Onwards and Upwards,
> Paul
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5327. Re: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 01:42:18 UTC
From: L. Paul Verhage
Topic: 5324 Message: 5327

I was just looking at that transducer this morning. If the deal with the pressure sensors that I'm currently looking at goes through, I'll be able to offer pressure sensors for less (while supplies last).
Paul

On Wed, May 27, 2009 at 9:23 PM, Mike Manes <mrmanes@...> wrote:

> Nicely done, Paul. Nicely done!
>
> Recommend you get get a better vacuum guage, however. The Honeywell
> 15 psia conditioned transducer and a 200.0 mV DPM make a pretty handy
> test instrument, and my wife Diann uses the DPM direct input to read the
> Type K thermocouple voltage when she's firing her pottery kiln.
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Onwards and Upwards,
Paul

5328. UV Source

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 01:47:35 UTC
From: L. Paul Verhage
Topic: 5328 Message: 5328

I was at Walmart this afternoon looking for cheap robot motors (I'm looking at electric toothbrushes right now) when I came across toothbrush sanitizers. The one made by DenTek is less than $10 and it's designed not to operate while the case is open. They warn against looking at the UV. It claims to kill 99% of germs in 10 minutes.

At that price, I think I have the UV source for my environmental test chamber.

--
Onwards and Upwards,
Paul

5329. GPSL Attendance, helium, etc

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 01:50:19 UTC
From: L. Paul Verhage
Topic: 5329 Message: 5329
Attachments: 1 described; binary payloads are missing from this source WARC

I've attached my tracking document for GPSL. Please look it over and see if I have missed adding you to the list.

I'm missing information on several people. Please tell me if you know how many people you will be bringing and if you'll present.

Thanks

--
Onwards and Upwards,
Paul

5330. Garmin

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 01:53:54 UTC
From: L. Paul Verhage
Topic: 5330 Message: 5330

I recommend we meet at the Pizza Shoppe across the street from Garmin at 11 AM. It's on the southwest corner of 151st st. and Ridgeview. After lunch we can drive across the street to the Garmin parking lot in fewer cars.

Be careful at the 151st st. exit on K-7. It's also where you get onto I-35.

There's a mall (The Great Mall of the Great Plains) on 151st west of Garmin. If you're bringing someone who doesn't want to go on the tour, they could drive to the mall.

--
Onwards and Upwards,
Paul

5331. Launched all States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 01:55:19 UTC
From: L. Paul Verhage
Topic: 5331 Message: 5331

Please look over my Launched all States page. If you've launched in new states, let me know and I'll update the list. I plan to give certificates for every five new states.

--
Onwards and Upwards,
Paul

5332. Re: [GPSL] GPSL Attendance, helium, etc [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 02:05:09 UTC
From: Harry M
Topic: 5332 Message: 5332

ORB/NWTI - 5 or 6 for Garmin.

5333. RE: [GPSL] GPSL Attendance, helium, etc [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 02:14:39 UTC
From: Nick Hanks
Topic: 5329 Message: 5333

Hi Paul,

Two minor corrections to your doc for EOSS.

- We'll have 14 in the tech session.

- We'll have 19 on the Garmin tour.

We'll have one presentation for the group as your doc indicates. The helium request is correct.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Wednesday, May 27, 2009 19:50
To: gpsl@yahoogroups.com
Subject: [GPSL] GPSL Attendance, helium, etc [1 Attachment]

[Attachment(s) from L. Paul Verhage included below]

I've attached my tracking document for GPSL. Please look it over and see if I have missed adding you to the list.

I'm missing information on several people. Please tell me if you know how many people you will be bringing and if you'll present.

Thanks

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Onwards and Upwards,
Paul

5334. GPSL 09 Attendance

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 03:13:49 UTC
From: wa8rc
Topic: 5334 Message: 5334

Hi Paul,

We will have two attending the conference as well as the Garmin tour, providing we make it there in time. I will also be bringing 3 Argent- Data Opentracker 1+'s for prizes to give away.

We will need 1 T-bottle of Helium - Will you be putting something on the web page to pre-pay like last year?

Looking forward to participating and seeing all again this year.

Ron & Tim Cathcart
Battle Creek, Michigan
"The Rust Belt State"

5335. Re: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 04:28:44 UTC
From: Mike Manes
Topic: 5324 Message: 5335

Hi again Paul,

The ultimate in absolute pressure sensors would be a mercury barometer, but given the hazmat status of Hg, I've had no luck finding one at a reasonable price, or even pure Hg to fill a homebrewed one.

I do have a Stokes guage that covers 0-50 Torr absolute, and one of our guys has a 10" 2-turn Wallace & Tiernan 0-15 psia guage that's good to +/- 2 Torr over the full range. Something like that would be necessary to calibrate out the 1% FS errors in the Honeywell transducers - noting that we regularly encounter absolute pressures less than 1% of 15 psia.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I was just looking at that transducer this morning. If the deal with
> the pressure sensors that I'm currently looking at goes through, I'll be
> able to offer pressure sensors for less (while supplies last).
> Paul
>
>
> On Wed, May 27, 2009 at 9:23 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Nicely done, Paul. Nicely done!
>
> Recommend you get get a better vacuum guage, however. The Honeywell
> 15 psia conditioned transducer and a 200.0 mV DPM make a pretty handy
> test instrument, and my wife Diann uses the DPM direct input to read the
> Type K thermocouple voltage when she's firing her pottery kiln.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> L. Paul Verhage wrote:
> >
> >
> > My article is coming out in either July or September. Meanwhile, I
> > created a four minute movie about the test chamber and uploaded it to
> > YouTube under my channel.
> >
> > You can either go to www.youtube.com/nearsys
> <http://www.youtube.com/nearsys>
> > <http://www.youtube.com/nearsys> or

> > http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5336. Re: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 03:31:09 UTC
From: John Nordlie
Topic: 5324 Message: 5336

Awesome Paul, thanks for the link!

If you or anyone else finds a suitable
chamber container of 12"+ diameter,
please let me know. We're still thinking
of torching the end off an air compressor
tank and welding on a flange, but I'd rather
be lazy if there's an easier solution :-).

L. Paul Verhage wrote:
>
>
> My article is coming out in either July or September. Meanwhile, I
> created a four minute movie about the test chamber and uploaded it to
> YouTube under my channel.
>
> You can either go to www.youtube.com/nearsys
> <http://www.youtube.com/nearsys> or
> http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
> --
> Onwards and Upwards,
> Paul
>
>
>

5337. Re: [GPSL] UV Source

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 04:33:49 UTC
From: Mike Manes
Topic: 5328 Message: 5337

The UV source in an EPROM eraser (which flash EEPROMS have obsoleted) or a replacement UV lamp used in some clothes dryers may also work pretty well. I picked up one of the latter lamps for a few bucks some time ago to make my own EPROM eraser. I think these lamps emit on the Hg lines.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I was at Walmart this afternoon looking for cheap robot motors (I'm
> looking at electric toothbrushes right now) when I came across
> toothbrush sanitizers. The one made by DenTek is less than $10 and it's
> designed not to operate while the case is open. They warn against
> looking at the UV. It claims to kill 99% of germs in 10 minutes.
>
> At that price, I think I have the UV source for my environmental test
> chamber.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5338. Re: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 04:49:46 UTC
From: Mike Manes
Topic: 5324 Message: 5338

Hi John,

The EOSS 18" x 18" x 18" chamber is made from 1/2" acrylic sheet stock with epoxied mortise joints. The lid seal is common closed cell 1" wide x 1/4" thick foam rubber weather strip. The walls do visibly deform a bit at 1 Torr absolute, but no implosions (yet!).

Tapped holes can be made for pipe fittings, etc., using a very slow drill speed with liberal 70% rubbing alcohol as a coolant.

It's nice to be able to see your experiment from all sides!

73 de Mike W5VSI

John Nordlie wrote:
> Awesome Paul, thanks for the link!
>
> If you or anyone else finds a suitable
> chamber container of 12"+ diameter,
> please let me know. We're still thinking
> of torching the end off an air compressor
> tank and welding on a flange, but I'd rather
> be lazy if there's an easier solution :-).
>
> L. Paul Verhage wrote:
>>
>> My article is coming out in either July or September. Meanwhile, I
>> created a four minute movie about the test chamber and uploaded it to
>> YouTube under my channel.
>>
>> You can either go to www.youtube.com/nearsys
>> <http://www.youtube.com/nearsys> or
>> http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
>> --
>> Onwards and Upwards,
>> Paul
>>
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5339. Re: [GPSL] UV Source

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 11:51:19 UTC
From: L. Paul Verhage
Topic: 5328 Message: 5339

I opened it up last night. It has a circuit to boost the 3V to something high enough for the Hg lamp. The switch will be easy to replace with something more remote. Online they claim the selling price is $19, but I got it for $9.

Paul

On Wed, May 27, 2009 at 11:33 PM, Mike Manes <mrmanes@...> wrote:

> The UV source in an EPROM eraser (which flash EEPROMS have obsoleted) or a
> replacement UV lamp used in some clothes dryers may also work pretty well.
> I picked up one of the latter lamps for a few bucks some time ago to
> make my own EPROM eraser. I think these lamps emit on the Hg lines.
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> >
> >
> > I was at Walmart this afternoon looking for cheap robot motors (I'm
> > looking at electric toothbrushes right now) when I came across
> > toothbrush sanitizers. The one made by DenTek is less than $10 and it's
> > designed not to operate while the case is open. They warn against
> > looking at the UV. It claims to kill 99% of germs in 10 minutes.
> >
> > At that price, I think I have the UV source for my environmental test
> > chamber.
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
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>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>
> Yahoo! Groups Links
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>

--
Onwards and Upwards,
Paul

5340. Launch Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 12:32:32 UTC
From: Jeff Dailey
Topic: 5102 Message: 5340

Taylor University will launch 12 balloons on june 1 at 4:00pm.

Universities from across the United States will attend a high-altitude balloon workshop at Taylor University on June 1 and 2.

Universities
Alverno University, Milwaukee, Wis.
Biola University, Los Angeles, Calif.
Butler University, Indianapolis, Ind.
University of Dayton, Dayton, Ohio
University of Indianapolis, Indianapolis, Ind.
University of Kentucky, Lexington, Ky.
Loras College, Dubuque, Iowa
Murray State University, Murray, Ky.
University of Nebraska, Omaha, Neb.
Shepherd University, Shepherdstown, W.Va.
University of St. Francis, Fort Wayne, Ind.
Tabor College, Hillsboro, Kan.
Tufts University, Medford, Mass.
Western Michigan University, Kalamazoo, Mich.
Wilberforce University, Wilberforce, Ohio

Next week’s workshop is funded through a Course Curriculum and Lab Improvement (CCLI) Grant from the National Science Foundation (NSF). During the two-day event, professors from the visiting universities will learn of the program from Taylor personnel so they can implement one of their own on their home campuses. They will also build science experiments for launch on a high-altitude balloon.
The launch will occur between 4-5 p.m., Monday, June 1.

Flight#175 CCLI Team1 APRS 144.39 KB9ZNZ-1
Flight#176 CCLI Team2 APRS 144.39 KB9ZNZ-3
Fliht#177 CCLI Team3
Flight#178 CCLI Team4
Flight#179 CCLI Team5
Flight#180 CCLI Team6
Flight#181 CCLI Team7
Flight#182 CCLI Team8
Flight#183 CCLI Team9
Flight#184 CCLI Team10
Flight#185 CCLI Team11
Flight#186 CCLI Team12

A second workshop will be held in July.

5341. A crack at the altitude record

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 16:25:32 UTC
From: Ed Moore
Topic: 5341 Message: 5341

Hi All,

I'm emailing on behalf of Rob Harrison, who is currently packing up a box full of stuff madly and driving from his place in the north of England to me in Cambridge, England.

We just decided that we should have a crack at the altitude record with the 3kg Balloon and payload that he has. We're going to launch at about 1am BST (12:00 GMT/UTC) from Churchill College, Cambridge, where we have a notam for Cambridge University Spaceflight launches. The winds are really unusually low for us, so we can more or less go up as slow as we want.

As some of you might know, we're legally limited to 10mW over here, so no APRS. Instead, we'll get everyone we can find to point their 40cm rigs up at the sky and listen to our 50baud RTTY. Ralph has given Rob rather stringent qualification requirements ("The entire decoded telemetry file sent directly to me from at least three separate sources.") and it's a very small group of folks here, so we're pulling in favours to get people to stay up all night and keep the thing tuned in.

You can track in real-time online. We have our own APRS-like system, where a little script on end-user PCs grabs the sound-card modem log and sends it to a central server which puts it on a map. For this flight, it'll be available here:

spacenear.us/tracker

Actual chat from us during flight and in chase cars and from the others in the UKHAB scene will be on the #highaltitude channel on irc.freenode.net - questions or anything else should probably be directed there, as I'm not sure how much email time I'll get now.

Best regards, and I very much hope to see some of you there.

Ed

--
Ed Moore
Churchill College, Cambridge

Cambridge University Spaceflight
http://www.cuspaceflight.co.uk

5342. RE: [GPSL] Environmental Test Chamber

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 18:58:24 UTC
From: Rick von Glahn
Topic: 5324 Message: 5342

Here it is in photos:

http://www.eoss.org/hardware/vacuum.htm

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Mike Manes
> Sent: Wednesday, May 27, 2009 10:50 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Environmental Test Chamber
>
> Hi John,
>
> The EOSS 18" x 18" x 18" chamber is made from 1/2" acrylic sheet
> stock with epoxied mortise joints. The lid seal is common closed
> cell 1" wide x 1/4" thick foam rubber weather strip. The walls do
> visibly deform a bit at 1 Torr absolute, but no implosions (yet!).
>
> Tapped holes can be made for pipe fittings, etc., using a very slow
> drill speed with liberal 70% rubbing alcohol as a coolant.
>
> It's nice to be able to see your experiment from all sides!
>
> 73 de Mike W5VSI
>
> John Nordlie wrote:
> > Awesome Paul, thanks for the link!
> >
> > If you or anyone else finds a suitable
> > chamber container of 12"+ diameter,
> > please let me know. We're still thinking
> > of torching the end off an air compressor
> > tank and welding on a flange, but I'd rather
> > be lazy if there's an easier solution :-).
> >
> > L. Paul Verhage wrote:
> >>
> >> My article is coming out in either July or September. Meanwhile, I
> >> created a four minute movie about the test chamber and uploaded it
> to
> >> YouTube under my channel.
> >>
> >> You can either go to www.youtube.com/nearsys
> >> <http://www.youtube.com/nearsys> or

> >> http://www.youtube.com/watch?v=KW5uyRueJ2o to watch the movie.
> >> --
> >> Onwards and Upwards,
> >> Paul
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>
> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.43/2139 - Release Date:
> 05/28/09 08:10:00

5343. Alaska BEAR 3 balloon reaches 86.394ft

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-28 19:14:19 UTC
From: powellite52
Topic: 5343 Message: 5343

BEAR 3 balloon was launched Tuesday evening May 26 @ 8:15 PM local time (UTC: May 27 @4:14) in a almost clear and wind-less sky when the upper winds died abruptly. After launch, we watched in awe as the balloon went vertically above us and stayed there for almost the entire upward flight. From our launch facility located at Poker Flats Rocket Range, you could look up and see both the balloon and the radar reflector even when it reached an altitude of 30,000 feet. BEAR 3 continued its almost perfect and vertical flight until 86,394 feet, burst and began its descent, finally drifting a bit to the northwest. Upon balloon burst, our pilot Myles (KL1NU), Neal (WL7NZ) and Dan (KL1JP) took flight in Myles plane to give chase and record the descent and touchdown. They chased the balloon for almost 30 minutes, spiraling around and downward, amazed at the beautiful sight of a fully deployed and perfectly descending parachute, observing and photographing the descent and touchdown. Plans are under way to organize a search and rescue team and recover the BEAR 3 unit from its remote location. We will be adding photographs, data and information for the next several days, including still pictures and movies from the on-board camera payload.

We are getting a 4 wheeler recovery team together. They should be heading out to pick up the balloon and data capsules tomorrow. Beside the on-board still camera and video gear, we've got a volcanic ash particulate sampler we hope captured ash from Mt. Redoubt's last eruption at above 30K.

For more information: http://www.bear.437am.com

cheers
Dan (KL1JP)

5344. Re: [EOSS] Up in the sky, it's a bird, it's a plane it's, hey beats me.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-29 01:06:14 UTC
From: Mike Manes
Topic: 5344 Message: 5344

Yeah, at first glance, it looks as though it rises from the surface to the "edge of space" - much taller than anything man-made other than maybe a rocket plume. And it's fatter at the bottom than the top, just the opposite of the possible partially-inflated ZP in the other pix you linked to.

That just leaves a (yawn) UFO - oh, well ...

73 de Mike W5VSI

Rick von Glahn wrote:
> Good points. I'd never have posted it if there weren't other strange
> pictures taken within 24 hours. Just thought it was interesting that
> something of similar shape was captured from disparate locations. But, I
> like your shards or crumbling payload idea better than anything else so far.
>
> 73 -- Rick, N0KKZ
>
>
>> -----Original Message-----
>> From: Mike Manes [mailto:mrmanes@...]
>> Sent: Thursday, May 28, 2009 3:37 PM
>> To: Rick von Glahn N0KKZ
>> Cc: EOSS@yahoogroups.com; EOSS_Trackers@yahoogroups.com;
>> EOSS_LT@yahoogroups.com
>> Subject: Re: [EOSS] Up in the sky, it's a bird, it's a plane it's, hey
>> beats me.
>>
>> Could be something a lot closer than it appears at first sight.
>>
>> Come to think of it, shards from that balloon blew way down past the
>> skirt of
>> the parachute (see the top photo on that recap page) and some hung on
>> all the
>> way to the deck (would have been a whole lot more rubber if the fast
>> release
>> hadn't done its job!). So that "UFO" may have been a chunk of shard
>> that
>> broke away from the flight string? Tough to imagine how it woulda
>> fallen
>> faster than the parachute, but it's also weird that shards would blow
>> downward
>> over 20 ft, as well. Maybe one wayward shard actually blew below the
>> SamCam?
>> Oh, and one of the student payloads, the 4th one down from the camera,
>> came
>> apart in flight, since only the taped-on lid was affixed to the payload

>> line.
>> So maybe it was something from that payload's guts?
>>
>> 73 de Mike W5VSI
>>
>> Robert Rochte wrote:
>>> Looks like a partially inflated zero-pressure balloon to me
>> (definitely the
>>> case for the ground-based photos).
>>> 73,
>>> Robert
>>> KC8UCH
>>>
>>> On Thu, May 28, 2009 at 2:52 PM, Rick von Glahn <rick@...>
>> wrote:
>>>> I got an unusual photo in the batch of shots taken by the SamCam.
>> It's the
>>>> third photo on this page:
>>>>
>>>> http://www.eoss.org/ansrecap/ar_131/recap138_139u4.htm
>>>>
>>>> There is definitely something in the distance but what it might be
>> is open
>>>> to interpretation. Perhaps someone actually can identify it.
>>>>
>>>> Normally, I'd just let this pass but, around 16 hours prior to our
>> flight
>>>> Ed, AG1M, took some photos from the ground looking up of something
>> he
>>>> couldn't identify. Because of the heavy blur in the EOSS Samcam
>> photo, it
>>>> is
>>>> hard to tell if these objects are the same or of a related genus,
>> but they
>>>> do look similar in some ways. So, anyone care to attempt an
>> identification?
>>>> 73 -- Rick, N0KKZ
>>>>
>>>>
>>>>
>>>
>>> [Non-text portions of this message have been removed]
>>>
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>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.339 / Virus Database: 270.12.43/2139 - Release Date:
>> 05/28/09 08:10:00
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5345. GPSL Website Addition

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-29 00:10:40 UTC
From: Harry M
Topic: 5345 Message: 5345

Keith,

For whatever reason your gmail keeps getting bounced.

Reason: 5.2.1 The email account that you tried to reach is disabled. 6si560104pzk.109

Please add the following to the GPSL Website under "Expected 2009 Participants".
We will be doing a joint flight.

Northwest Technical Institute (NWTI), Arkansas

Thanks, CU soon!
Harry KC5TRB
ORB

5346. [Fwd: [KNSP] winds aloft data needed]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-29 04:26:44 UTC
From: Mike Manes
Topic: 5346 Message: 5346

-------- Original Message --------
Subject: [KNSP] winds aloft data needed
Date: Wed, 27 May 2009 13:19:02 -0700 (PDT)
From: pete sias <petesias@yahoo.com>
To: balloon <knsp@yahoogroups.com>

Anyone know of a source that has current wind direction and speed (surface
to jet stream levels +..)in South America? Specifically Lima Peru.

Thanks in advance,

Pete NØOY

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5347. Re: [GPSL] GPSL Website Addition

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-29 04:16:46 UTC
From: Keith Kaiser
Topic: 5345 Message: 5347

Will do Harry.

On May 28, 2009, at 7:10 PM, Harry M wrote:

> Northwest Technical Institute (NWTI), Arkansas

73's
Keith Kaiser
wa0tjt@...

5348. Fw: balloon is in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2009-05-30 15:03:45 UTC
From: Jerome Doerrie
Topic: 5348 Message: 5348

--- On Sat, 5/30/09, Jerome Doerrie <k5is@...> wrote:

> From: Jerome Doerrie <k5is@...>
> Subject: balloon is in the air
> To: RFSHAB@yahoogroups.com
> Cc: k5is@...
> Date: Saturday, May 30, 2009, 9:57 AM
>
Reach For Space: RFSHAB@yahoogroups.com
> At 9:42 am Balloon was launched:
> Winds on ground exceed 14 mph and had difficulty
> controlling balloon while filling
> On board: 144.390 WL7ii - ii id every 2
> minutes
> 28.322 WL7ii
> camera, and find me spot
> 433.450 +/- K5TTU
> 28.748 mhz   K5TTU
>
> balloon leaft head ENE
> 6 lbs of payload wt, 1200 gram balloon, 213 cu ft of He.
> 73, Jerome K5IS@...
>
>
>
>

5349. Results Reach For Space Flight #24

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-01 16:45:42 UTC
From: Jerome Doerrie
Topic: 5349 Message: 5349

Reach For Space Flight #24

After repeated weeks of postponements we were able to launch from the K5IS/N5IS farm near Booker, TX,on Saturday May 30th. Flight time was 91 minutes for our 1200 gram balloon with 6.0 pounds of payload in three packages.. The 144.390 APRS failed at lift off. (Low battery voltage) thus WL7ii-11 did not provided any data during the flight. On the way home it did come alive and provide some useless position reports. The Find Me Spot provided three items on the way up and just one item on the way down. Our only winds were on the surface which had gusts over 20 mph at lift off. Balloon traveled just 12.27 miles to the ESE landing 2 miles west and 1 mile north of Darrouzett, TX. Estimated altitude may be between 76,000 and 80,000 feet. The parachute did not open properly and payloads hit the ground hard. The 28.322 MHz oscillator chip bounced out of its socket. During the flight this WL7ii beacon was copied in Cisco, TX, and Midland, TX, and
Colorado Springs, CO. The 433.40 (15 mw) and 28.748 (150 mw) K5TTU beacons survived the crash. The center conductor of the 144.390 coaxial dipole snapped off sometime before we recovered the payloads. Spot unit shifted within its case and the two button switches caught under the case edges, turning it off. It is very rare for us to have a flight of less than a 100 miles. Our flight camera failed to record any images. A more detailed report is posted on RSFHAB@yahoogroups.com. Jerome, K5IS@..., flight director.

5350. Taylor Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-01 21:29:14 UTC
From: Jeff Dailey
Topic: 2211 Message: 5350

Tayler has 12 balloons in the air.

Two of the balloons have APRS 144.39 KB9ZNZ-1 & -3.

Jeff Dailey
Taylor University
Reseach Engineer

5351. BASE 36 flight schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 00:28:32 UTC
From: BASE
Topic: 5351 Message: 5351

Dear all,

The weather forecast for the next 48 hours is fascinating. The current predictions for early Wednesday afternoon (local time of scheduled launch) have worsened with a 60% chance of thunderstorms. I know we could easily launch on Thursday morning, but that will put too much pressure on the high school students to complete their poster by Friday afternoon. I would love to be accessible to Ron, Justin, and Corey, but the students come first.

The forecast discussion tonight on the National Weather Service website supports the idea of flying on Tuesday (tomorrow) afternoon. To launch tomorrow afternoon, we'll have to work very efficiently in the morning, but I think we could leave Greencastle by 1 pm or so and launch a little after 2 pm (1800 UTC) from Eminence, Indiana. Landing would be about 40 miles to the ENE near I-74 between the southeast portion of Marion County and Shelbyville.

We will be flying two APRS units on 144.39 MHz, W1IX-11 on the even minutes and W9YJ-11 on the even minutes plus 45 seconds. The W1IX-11 is the all-in-one MicroTrak unit from Byonics. We hope to see if it works above 60 kft.

Our 2000 gram balloon was intercepted by the US military. We'll fly a 1500 gram balloon and probably will only reach the mid-90s of kft. To save some payload weight, we won't fly our light sensors.

Our tracking crew will be traveling in amateur radio silence (I'll get my license later this month!?). I'll try to update on Twitter during the flight. My cell phone is (765) 721-4179.

I'll update in the morning about our launch plans.

Thanks for being flexible.

Howard

Howard L. Brooks
Professor of Physics & Astronomy
241 Julian Science & Mathematics Center
602 S. College St.
Greencastle, IN 46135
Office:(765) 658-4653
FAX: (765) 658-4732

5352. Re: [GPSL] Results Reach For Space Flight #24

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 01:37:39 UTC
From: Mike Manes
Topic: 5349 Message: 5352

Dang! Almost enough to make ya wanna take up a less exciting hobby,
like stamp collecting, eh?

For wot it's worth, EOSS has flown 139 times since 1990, and we've NEVER
experienced a "perfect" flight, and some the early ones weren't nearly as
tame as your #24.

Congrats on executing a recovery, despite all.

73 de Mike W5VSI
CTO EOSS

Jerome Doerrie wrote:
> Reach For Space Flight #24
>
> After repeated weeks of postponements we were able to launch from the K5IS/N5IS farm near Booker, TX,on Saturday May 30th. Flight time was 91 minutes for our 1200 gram balloon with 6.0 pounds of payload in three packages.. The 144.390 APRS failed at lift off. (Low battery voltage) thus WL7ii-11 did not provided any data during the flight. On the way home it did come alive and provide some useless position reports. The Find Me Spot provided three items on the way up and just one item on the way down. Our only winds were on the surface which had gusts over 20 mph at lift off. Balloon traveled just 12.27 miles to the ESE landing 2 miles west and 1 mile north of Darrouzett, TX. Estimated altitude may be between 76,000 and 80,000 feet. The parachute did not open properly and payloads hit the ground hard. The 28.322 MHz oscillator chip bounced out of its socket. During the flight this WL7ii beacon was copied in Cisco, TX, and Midland, TX, and
> Colorado Springs, CO. The 433.40 (15 mw) and 28.748 (150 mw) K5TTU beacons survived the crash. The center conductor of the 144.390 coaxial dipole snapped off sometime before we recovered the payloads. Spot unit shifted within its case and the two button switches caught under the case edges, turning it off. It is very rare for us to have a flight of less than a 100 miles. Our flight camera failed to record any images. A more detailed report is posted on RSFHAB@yahoogroups.com. Jerome, K5IS@..., flight director.
>
>
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5353. Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 13:37:46 UTC
From: L. Paul Verhage
Topic: 5353 Message: 5353

I got my sample sensor and see that they are what I expected. I'll bring some of them to GPSL. If you're interested in a $10.25 pressure sensor, you can pick it up there. They cost an extra $0.25 because of shipping.

I tried to contact Garmin to give them an up date, but Gretchen in HR is on vacation until Thursday.

I checked out the Far Point observatory for a launch site, but tsee there are too many fence. So I' trying to contact the school next door. I also have a lead for a launch site at an RC flighting club at Perry Lake. As another back up, we should be able to use the soccer fields at KU, but I need to fid out who I verify this with.

I'm visiting my school today to check up on the conference room. I also want to coordinate getting the campus alarm turned off we we can pick up the helium Saturday morning. It would look real suspicision if the Topeka police responded to an alarm and saw half a dozen cars loading tanks of gas.
Are there anymore updates in attendance?

Those of you that did GPSL in the past, what else should I be doing now?
--
Onwards and Upwards,
Paul

5354. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 13:54:06 UTC
From: Joe
Topic: 5353 Message: 5354

Hi paul

what are the sensors?

I must have missed that thread.. etc.

Joe WB9SBD

L. Paul Verhage wrote:

>
>
> I got my sample sensor and see that they are what I expected. I'll
> bring some of them to GPSL. If you're interested in a $10.25 pressure
> sensor, you can pick it up there. They cost an extra $0.25 because of
> shipping.
>
> I tried to contact Garmin to give them an up date, but Gretchen in HR
> is on vacation until Thursday.
>
> I checked out the Far Point observatory for a launch site, but tsee
> there are too many fence. So I' trying to contact the school
> next door. I also have a lead for a launch site at an RC flighting
> club at Perry Lake. As another back up, we should be able to use the
> soccer fields at KU, but I need to fid out who I verify this with.
>
> I'm visiting my school today to check up on the conference room. I
> also want to coordinate getting the campus alarm turned off we we can
> pick up the helium Saturday morning. It would look real suspicision
> if the Topeka police responded to an alarm and saw half a dozen cars
> loading tanks of gas.
> Are there anymore updates in attendance?
>
> Those of you that did GPSL in the past, what else should I be doing now?
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com

>Version: 8.5.339 / Virus Database: 270.12.50/2150 - Release Date: 06/02/09 06:47:00
>
>
>

5355. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 14:07:49 UTC
From: L. Paul Verhage
Topic: 5353 Message: 5355

Pressure sensors that run from 15 to 0 PSI are at least $30. Most pressure sensors run over only a smaller range anyways. Several years ago I developed a near space weather station and since I am selling BalloonSat flight computer kits, I want to produce a weather station for them. Well, I found out the company has stopped making these particular sensors and has no plans to make any more. Fortunately, they have some left in stock, their last ones. I've arranged to test one of them to make sure they are what I expected and they said they'd sell them to me at a good price if I take them off their hands. It's going to cost me nearly $1,000, but these are pretty good sensors and I'll get them at a good price. I'll need a bunch for the waether station kits, but I'll have some extra left over. I offered to sell some at cost to help me purchase them. I got requests for about a dozen of them. So I'll bring them to GPSL so there's no cost involved in mailing them (I just need to charge part of what I'll be charged to have them shipped to Kansas).

Onwards and Upwards

On Tue, Jun 2, 2009 at 8:54 AM, Joe <nss@...> wrote:

>
>
> Hi paul
>
> what are the sensors?
>
> I must have missed that thread.. etc.
>
> Joe WB9SBD
>
> L. Paul Verhage wrote:
>
> I got my sample sensor and see that they are what I expected. I'll
> bring some of them to GPSL. If you're interested in a $10.25 pressure
> sensor, you can pick it up there. They cost an extra $0.25 because of
> shipping.
>
> I tried to contact Garmin to give them an up date, but Gretchen in HR is on
> vacation until Thursday.
>
> I checked out the Far Point observatory for a launch site, but tsee there
> are too many fence. So I' trying to contact the school next door. I also
> have a lead for a launch site at an RC flighting club at Perry Lake. As
> another back up, we should be able to use the soccer fields at KU, but I
> need to fid out who I verify this with.
>

> I'm visiting my school today to check up on the conference room. I also
> want to coordinate getting the campus alarm turned off we we can pick up the
> helium Saturday morning. It would look real suspicision if the Topeka
> police responded to an alarm and saw half a dozen cars loading tanks of
> gas.
> Are there anymore updates in attendance?
>
> Those of you that did GPSL in the past, what else should I be doing now?
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> Onwards and Upwards,
> Paul
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>
>
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>

--
Onwards and Upwards,
Paul

5356. Illuminated Moon Globe - 10" - Brand New

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 15:59:22 UTC
From: ke5hdn
Topic: 5356 Message: 5356

All,
I am selling this new Moon Globe on Craigs list. If anybody is interested make me a fair offer.

http://dallas.craigslist.org/dal/clt/1173243812.html

73's
Earl
http://www.hapb.net

5357. Re: [GPSL] BASE 36 flight schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 16:22:24 UTC
From: BASE
Topic: 5351 Message: 5357

All is still looking good for launch about 2 pm EDT from Eminence, Indiana. Landing still NW of Shelbyville.

Howard

--- On Mon, 6/1/09, BASE <basedepauw@...> wrote:

From: BASE <basedepauw@...>
Subject: [GPSL] BASE 36 flight schedule
To: "Great Plains Superlaunch" <gpsl@yahoogroups.com>, "Balloon Sked" <balloon_sked@yahoogroups.com>
Date: Monday, June 1, 2009, 8:28 PM

Dear all,

The weather forecast for the next 48 hours is fascinating. The current predictions for early Wednesday afternoon (local time of scheduled launch) have worsened with a 60% chance of thunderstorms. I know we could easily launch on Thursday morning, but that will put too much pressure on the high school students to complete their poster by Friday afternoon. I would love to be accessible to Ron, Justin, and Corey, but the students come first.

The forecast discussion tonight on the National Weather Service website supports the idea of flying on Tuesday (tomorrow) afternoon. To launch tomorrow afternoon, we'll have to work very efficiently in the morning, but I think we could leave Greencastle by 1 pm or so and launch a little after 2 pm (1800 UTC) from Eminence, Indiana. Landing would be about 40 miles to the ENE near I-74 between the southeast portion of Marion County and Shelbyville.

We will be flying two APRS units on 144.39 MHz, W1IX-11 on the even minutes and W9YJ-11 on the even minutes plus 45 seconds. The W1IX-11 is the all-in-one MicroTrak unit from Byonics. We hope to see if it works above 60 kft.

Our 2000 gram balloon was intercepted by the US military. We'll fly a 1500 gram balloon and probably will only reach the mid-90s of kft. To save some payload weight, we won't fly our light sensors.

Our tracking crew will be traveling in amateur radio silence (I'll get my license later this month!?). I'll try to update on Twitter during the flight. My cell phone is (765) 721-4179.

I'll update in the morning about our launch plans.

Thanks for being flexible.

Howard

Howard L. Brooks

Professor of Physics & Astronomy

241 Julian Science & Mathematics Center

602 S. College St.

Greencastle, IN 46135

Office:(765) 658-4653

FAX: (765) 658-4732

5358. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 19:31:10 UTC
From: Mike Manes
Topic: 5353 Message: 5358

Hi Paul,

What's the make & model of the pressure sensor? Do you have a spec sheet
you can attach or pass a link to?

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I got my sample sensor and see that they are what I expected. I'll
> bring some of them to GPSL. If you're interested in a $10.25 pressure
> sensor, you can pick it up there. They cost an extra $0.25 because of
> shipping.
>
> I tried to contact Garmin to give them an up date, but Gretchen in HR is
> on vacation until Thursday.
>
> I checked out the Far Point observatory for a launch site, but tsee
> there are too many fence. So I' trying to contact the school
> next door. I also have a lead for a launch site at an RC flighting club
> at Perry Lake. As another back up, we should be able to use the soccer
> fields at KU, but I need to fid out who I verify this with.
>
> I'm visiting my school today to check up on the conference room. I also
> want to coordinate getting the campus alarm turned off we we can pick up
> the helium Saturday morning. It would look real suspicision if the
> Topeka police responded to an alarm and saw half a dozen cars loading
> tanks of gas.
> Are there anymore updates in attendance?
>
> Those of you that did GPSL in the past, what else should I be doing now?
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5359. Fw: one of the better msgs.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-02 22:53:25 UTC
From: Jon Riley
Topic: 5359 Message: 5359
Attachments: 5 described; binary payloads are missing from this source WARC

--- On Tue, 6/2/09, Patricia Warren <patsapplekrate@...> wrote:

From: Patricia Warren <patsapplekrate@...>
Subject: Fw: one of the better msgs.
To: "theresa auger" <tauger2796@...>, "Mary Ann Budahl" <mabudahl@...>, hitektvservice@..., "rachel jacobs" <memaw356@comcast.net>, "karen silas" <ksilas@...>, "Moselle McCall" <moselle58@verizon.net>, "tanya messer" <tnymssr@...>, "linda molinary" <cruise_line2002@...>, "Brenda Riley" <brenda_riley@...>, "Jon Riley" <aj0nr@...>, "Ralph Wainright" <aaptrainer@...>, "Hazel Zornes" <g1hzlm@...>, "gary zornes" <zornesgary@...>
Date: Tuesday, June 2, 2009, 4:42 PM

--- On Mon, 6/1/09, Joy Quinn <jarlenesq@yahoo.com> wrote:

From: Joy Quinn <jarlenesq@...>
Subject: Fw: one of the better msgs.
To: "Arthur Jones" <arthur50112@...>
Date: Monday, June 1, 2009, 10:48 PM

  Subject: Fw: I was asked to keep this going, and I will gladly do so

---

Attached Message

WHEN A SOLDIER COMES HOME
This email is being circulated around the world - please keep it going

When a soldier comes home, he finds it hard....

..to listen to his son whine about being bored.

....to keep a straight face when people complain about potholes.

to be tolerant of people who complain about the hassle of getting ready for work.

...to be understanding when a co-worker complains about a bad night's sleep.

..to be silent when people pray to God for a new car.

...to control his panic when his wife tells him he needs to drive slower.

..to be compassionate when a businessman expresses a fear of flying.

....to keep from laughing when anxious parents say they're afraid to send their kids off to summer camp.

....to keep from ridiculing someone who complains about hot weather.

....to control his frustration when a colleague gripes about his coffee being cold.

....to remain calm when his daughter complains about having to walk the dog.

.....to be civil to people who complain about their jobs.

....to just walk away when someone says they only get two weeks of vacation a year.

....to be forgiving when someone says how hard it is to have a new baby in the house.

The only thing harder than being a Soldier..

Is loving one.

I was asked to pass this on and I will gladly do so,

Will you???

--
RIDE FREE -DRIVE CAREFUL- WATCH OUT FOR THE CRAZY'S
Be glad I'm not out there. JD

Hotmail® has a new way to see what's up with your friends. Check it out.

Hotmail® has a new way to see what's up with your friends. Check it out.

5360. BASE 36 flight summary

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 01:29:48 UTC
From: BASE
Topic: 5360 Message: 5360

Dear friends,

BASE 36 was a partial success. Launch at 1840 UTC from Eminence Indiana. Slightly more surface wind that expected resulted in a reduced ascent rate (You'd think I'd remember my own talk from GPSL last year). At 18 kft the ascent stopped and a gradual descent eventually began. We will check the timing on the flight path, but the balloon probably encountered some very heavy rain about that time.

Landing east of New Castle, Indiana at 2140 UTC. Since the balloon was still significantly inflated the payload string did a series of touch and goes across a recently planted corn and subsequent soybean field. The bottom payload, weighing 5 pounds, represented 60% of the total payload weight. I caught the bottom payload after about 90 bounces across the field.

Will do a post mortem on the balloon tomorrow to find the leak.

Since the students didn't get to enjoy a high altitude flight, we will fly again on Thursday morning.

W1IX-11 had an antenna failure either just before launch or just after release.

Details on BASE 37 will follow.

Howard

5361. BASE 37 for Thursday, June 4 14 UTC

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 01:49:29 UTC
From: BASE
Topic: 5361 Message: 5361

Dear all,

A Bonus Flight! BASE 37 will fly on Thursday, June 4 about 14 UTC (10 AM Eastern Daylight Time). Preliminary launch site at Cloverdale Indiana. Landing near Fairland, IN.

Flight will use 1200 gram balloon to carry Earth Sensor, Tilt Axis Sensor, and Geiger Counters up to approximately 100 kft.

W9YJ-11 on 144.39 MHz, every two minutes.

Primary tracking on 900 MHz spread spectrum.

Howard

5362. Re: [GPSL] BASE 36 flight summary

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 02:49:55 UTC
From: Mike Manes
Topic: 5360 Message: 5362

Hi Howard,

Ergo the EOSS motto: "A little more gas"

Congrats on the recovery after the multiple landings. Our experience
with that kinda monkey-shines is with the bottom payload breaking free,
allowing the balloon to soar skyward again. We did one where the same balloon
executed three successive ascents and three landings - made for one looooonngg
day!

73 de Mike W5VSI

BASE wrote:
>
>
> Dear friends,
>
> BASE 36 was a partial success. Launch at 1840 UTC from Eminence
> Indiana. Slightly more surface wind that expected resulted in a reduced
> ascent rate (You'd think I'd remember my own talk from GPSL last year).
> At 18 kft the ascent stopped and a gradual descent eventually began. We
> will check the timing on the flight path, but the balloon probably
> encountered some very heavy rain about that time.
>
> Landing east of New Castle, Indiana at 2140 UTC. Since the balloon was
> still significantly inflated the payload string did a series of touch
> and goes across a recently planted corn and subsequent soybean field.
> The bottom payload, weighing 5 pounds, represented 60% of the total
> payload weight. I caught the bottom payload after about 90 bounces
> across the field.
>
> Will do a post mortem on the balloon tomorrow to find the leak.
>
> Since the students didn't get to enjoy a high altitude flight, we will
> fly again on Thursday morning.
>
> W1IX-11 had an antenna failure either just before launch or just after
> release.
>
> Details on BASE 37 will follow.
>
> Howard
>
>
>
>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5363. One Launch Site and Weather Station Results

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 01:54:07 UTC
From: L. Paul Verhage
Topic: 5363 Message: 5363
Attachments: 2 described; binary payloads are missing from this source WARC

Here's the first launch site I've gotten approval for (attached image).
It's mission Valley high school west to Toeka. Here are its coordinates,
North 38 deg 53.163'
West 96 deg 00.040'. They have a very long parking lot. I'll vist an RC
club tomorrow evening about using their run way.

I've also attached a spreadsheet from a test I ran on the weather station in
my environmental chamber. Very odd that the RH and temperature both dropped
as the pressure did. I'm not sure why. Is the temperature sensor (a
LM335) being heated by the air around it (so that when it's in a vacuum, it
cools)?

--
Onwards and Upwards,
Paul

5364. H2 and He

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 02:00:25 UTC
From: L. Paul Verhage
Topic: 5364 Message: 5364

I was quoted a price of $75 for a T tank of H2 and $102 for a T tank of He by Kirk Welding.

This is what I have for gas so far. It looks like Kir will switch out a nut and nipple from one of my helium fillers for the hydrogen versions for around $10.

Helium

NearSys - 1

Bill Brown - 1

NSTAR - 1

EOSS – 2

ARBONET - 2

U Minnesota – 3

ORB – 1

Cathcart - 1

Hydrogen

NSV- 1

--
Onwards and Upwards,
Paul

5365. NearSys Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 02:12:10 UTC
From: L. Paul Verhage
Topic: 5365 Message: 5365

As of right now, the third NearSys flight is scheduled for this Saturday near the University of Minnesota, Twin Cities. My module will transmit as KD4STH-8 on 144.390 (packets at once per minute). I'll try to email the exact launch time.

I'm flying a new flight computer (the Near Space UltraLight) with a still digital, a video, geiger counter, and internal temperature sensor. The video is aimed down at the Idaho cluster bomb.

Also onboard is a BalloonSat Easy with a remote IR temperature sensor. It's aimed up at black sky and in an insulated tube.
--
Onwards and Upwards,
Paul

5366. Re: [GPSL] One Launch Site and Weather Station Results [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 04:02:31 UTC
From: Mike Manes
Topic: 5363 Message: 5366

Adiabatic cooling per Boyle's Law.

L. Paul Verhage wrote:
> [Attachment(s) <#TopText> from L. Paul Verhage included below]
>
> Here's the first launch site I've gotten approval for (attached image).
> It's mission Valley high school west to Toeka. Here are its
> coordinates, North 38 deg 53.163'
> West 96 deg 00.040'. They have a very long parking lot. I'll vist an
> RC club tomorrow evening about using their run way.
>
>
> I've also attached a spreadsheet from a test I ran on the weather
> station in my environmental chamber. Very odd that the RH and
> temperature both dropped as the pressure did. I'm not sure why. Is the
> temperature sensor (a LM335) being heated by the air around it (so that
> when it's in a vacuum, it cools)?
>
> --
> Onwards and Upwards,
> Paul
>
> Attachment(s) from L. Paul Verhage
>
> 1 of 1 Photo(s)
>
> mission valley hs.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/830157683/item/1734214274/view>
> mission valley hs.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/830157683/item/1734214274/view>
>
> 1 of 1 File(s)
>
> Weather Station Test in Environmental Chamber.xls
> <http://d.yimg.com/kq/groups/6764416/27958392/name/Weather%20Station%20Test%20in%20Environmental%20Chamber%2Exls>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5367. Re: [GPSL] H2 and He

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 03:04:09 UTC
From: Joe
Topic: 5364 Message: 5367

SHOP AROUND!

WOW,

Near Space Sciences last flight the tank of H2 was 17.50

Joe WB9SBD

L. Paul Verhage wrote:

>
>
> I was quoted a price of $75 for a T tank of H2 and $102 for a T tank
> of He by Kirk Welding.
>
> This is what I have for gas so far. It looks like Kir will switch out
> a nut and nipple from one of my helium fillers for the hydrogen
> versions for around $10.
>
>
> Helium
>
> NearSys - 1
>
> Bill Brown - 1
>
> NSTAR - 1
>
> EOSS - 2
>
> ARBONET - 2
>
> U Minnesota - 3
>
> ORB - 1
>
> Cathcart - 1
>
>
>
> Hydrogen
>
> NSV- 1
>
>
> --

> Onwards and Upwards,
> Paul
>
>
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.51/2151 - Release Date: 06/02/09 17:53:00
>
>
>

5368. Re: [GPSL] H2 and He

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 04:03:34 UTC
From: Mike Manes
Topic: 5364 Message: 5368

Will Kirk refund uncracked bottles?

L. Paul Verhage wrote:
>
>
> I was quoted a price of $75 for a T tank of H2 and $102 for a T tank of
> He by Kirk Welding.
>
> This is what I have for gas so far. It looks like Kir will switch out a
> nut and nipple from one of my helium fillers for the hydrogen versions
> for around $10.
>
>
> *Helium*
>
> NearSys - 1
>
> Bill Brown - 1
>
> NSTAR - 1
>
> EOSS – 2
>
> ARBONET - 2
>
> U Minnesota – 3
>
> ORB – 1
>
> Cathcart - 1
>
>
>
> *Hydrogen*
>
> NSV- 1
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5369. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 03:12:14 UTC
From: L. Paul Verhage
Topic: 5353 Message: 5369

The sensor is a SM5812-015-A-LR.

I've downloaded datasheets in the past and will arrange to post one on my website.

Paul

On Tue, Jun 2, 2009 at 2:31 PM, Mike Manes <mrmanes@...> wrote:

> Hi Paul,
>
> What's the make & model of the pressure sensor? Do you have a spec sheet
> you can attach or pass a link to?
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> >
> >
> > I got my sample sensor and see that they are what I expected. I'll
> > bring some of them to GPSL. If you're interested in a $10.25 pressure
> > sensor, you can pick it up there. They cost an extra $0.25 because of
> > shipping.
> >
> > I tried to contact Garmin to give them an up date, but Gretchen in HR is
> > on vacation until Thursday.
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> > I checked out the Far Point observatory for a launch site, but tsee
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> > next door. I also have a lead for a launch site at an RC flighting club
> > at Perry Lake. As another back up, we should be able to use the soccer
> > fields at KU, but I need to fid out who I verify this with.
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> > I'm visiting my school today to check up on the conference room. I also
> > want to coordinate getting the campus alarm turned off we we can pick up
> > the helium Saturday morning. It would look real suspicision if the
> > Topeka police responded to an alarm and saw half a dozen cars loading
> > tanks of gas.
> > Are there anymore updates in attendance?
> >
> > Those of you that did GPSL in the past, what else should I be doing now?
> > --
> > Onwards and Upwards,
> > Paul
> >
> >

> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

5370. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 03:16:00 UTC
From: Joe
Topic: 5353 Message: 5370

STUFF IT IN THE FILES SECTION OF THE GROUP..

L. Paul Verhage wrote:

>
>
> The sensor is a SM5812-015-A-LR.
>
> I've downloaded datasheets in the past and will arrange to post one on
> my website.
>
> Paul
>
> On Tue, Jun 2, 2009 at 2:31 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Paul,
>
> What's the make & model of the pressure sensor? Do you have a
> spec sheet
> you can attach or pass a link to?
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> >
> >
> > I got my sample sensor and see that they are what I expected. I'll
> > bring some of them to GPSL. If you're interested in a $10.25
> pressure
> > sensor, you can pick it up there. They cost an extra $0.25
> because of
> > shipping.
> >
> > I tried to contact Garmin to give them an up date, but Gretchen
> in HR is
> > on vacation until Thursday.
> >
> > I checked out the Far Point observatory for a launch site, but tsee
> > there are too many fence. So I' trying to contact the school
> > next door. I also have a lead for a launch site at an RC
> flighting club
> > at Perry Lake. As another back up, we should be able to use the
> soccer
> > fields at KU, but I need to fid out who I verify this with.

> >
> > I'm visiting my school today to check up on the conference room.
> I also
> > want to coordinate getting the campus alarm turned off we we can
> pick up
> > the helium Saturday morning. It would look real suspicision if the
> > Topeka police responded to an alarm and saw half a dozen cars
> loading
> > tanks of gas.
> > Are there anymore updates in attendance?
> >
> > Those of you that did GPSL in the past, what else should I be
> doing now?
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
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>No virus found in this incoming message.

>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.51/2151 - Release Date: 06/02/09 17:53:00
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5371. Re: [GPSL] Pressure Sensor and GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 04:23:25 UTC
From: Mike Manes
Topic: 5353 Message: 5371

Who's the mfr? Drew a blank googling that P/N.
73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> The sensor is a SM5812-015-A-LR.
>
> I've downloaded datasheets in the past and will arrange to post one on
> my website.
>
> Paul
>
> On Tue, Jun 2, 2009 at 2:31 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Paul,
>
> What's the make & model of the pressure sensor? Do you have a spec
> sheet
> you can attach or pass a link to?
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> 73 de Mike W5VSI
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> >
> >
> > I got my sample sensor and see that they are what I expected. I'll
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> > sensor, you can pick it up there. They cost an extra $0.25
> because of
> > shipping.
> >
> > I tried to contact Garmin to give them an up date, but Gretchen
> in HR is
> > on vacation until Thursday.
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> > I checked out the Far Point observatory for a launch site, but tsee
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> > next door. I also have a lead for a launch site at an RC
> flighting club
> > at Perry Lake. As another back up, we should be able to use the
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> > fields at KU, but I need to fid out who I verify this with.

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> I also
> > want to coordinate getting the campus alarm turned off we we can
> pick up
> > the helium Saturday morning. It would look real suspicision if the
> > Topeka police responded to an alarm and saw half a dozen cars loading
> > tanks of gas.
> > Are there anymore updates in attendance?
> >
> > Those of you that did GPSL in the past, what else should I be
> doing now?
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
>
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> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
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> Onwards and Upwards,
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5372. Re: [GPSL] BASE 36 flight summary

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 06:53:28 UTC
From: wb8elk@aol.com
Topic: 5360 Message: 5372

Hi Howard,

I did a flight in 2005 that later turned out to have a 1/4" hole in the balloon envelope (granted it had been sitting on the ceiling of our highbay for 3 weeks before we managed to retrieve it and fly it - the result of an "oops" moment during inflation).....it stopped ascending at 34,000 feet and came back intact...it actually took a bit of effort to get the thing to burst after we recovered the payloads and balloon....photos shown in the following web link...it may take a minute or two for the photos to load in as they are fairly large photos.

http://www.wb8elk.com/BalloonZero.htm
(http://www.wb8elk.com/BalloonZero.htm)

It was quite fun to watch the balloon descend leisurely right in front of us. As you may recall from last year's GPSL's presentation, when I intentionally put two 1/16" holes in the nozzle the balloon did nearly the same flight profile....one hole however got it to float all night long at 107,000 feet.

Your leak may not be in the balloon envelope itself...it could've been in the nozzle if it wasn't tied off tightly enough.

- Bill WB8ELK

**********We found the real ‘Hotel California’ and the ‘Seinfeld’ diner. What will you find? Explore WhereItsAt.com.
(http://www.whereitsat.com/#/music/all-spots/355/47.796964/-66.374711/2/Youve-Found-Where-Its-At?ncid=eml
cntnew00000007)

5373. Romania Targets Moon with Balloon-Launched Ball

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 08:46:19 UTC
From: Nicholas Stich
Topic: 5373 Message: 5373

Below is an interesting link that I came across on a rocketry forum.

http://www.space.com/businesstechnology/090527-tw-glxp-arca.html

Best Regards,
Nick Stich

5374. Re: [GPSL] Romania Targets Moon with Balloon-Launched Ball

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-03 19:26:17 UTC
From: Keith Kaiser
Topic: 5373 Message: 5374

Yea... if something goes wrong nobody dies. Good plan!

On Jun 3, 2009, at 3:46 AM, Nicholas Stich wrote:

>
>
> Below is an interesting link that I came across on a rocketry forum.
>
> http://www.space.com/businesstechnology/090527-tw-glxp-arca.html
>
> Best Regards,
> Nick Stich
>
>
>

73's
Keith Kaiser
wa0tjt@...

5375. Re: [GPSL] Romania Targets Moon with Balloon-Launched Ball

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-04 02:20:17 UTC
From: Mike Manes
Topic: 5373 Message: 5375

The video linked on that page is even more interesting:

http://www.space.com/common/media/video/player.php?videoRef=SP_090527_ARCA-GLXP

73 de Mike W5VSI, EOSS

Nicholas Stich wrote:
> Below is an interesting link that I came across on a rocketry forum.
>
> http://www.space.com/businesstechnology/090527-tw-glxp-arca.html
>
> Best Regards,
> Nick Stich
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5376. Re: [GPSL] Romania Targets Moon with Balloon-Launched Ball

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-04 06:21:38 UTC
From: wb8elk@aol.com
Topic: 5373 Message: 5376

Hi Nick and all,

I had a chance to meet with Dimitru of the Romanian group mentioned in your email....in fact I had a blast talking with his group about balloon and rockoons until the wee hours....they are great folks who are doing quite innovative things with rockoons and balloons.

Here's a link taken at the roll-out of the Lunar Xprize at Google headquarters...you'll see a photo of me and Dimitru at the event (I'm a member of one of the Lunar X Prize teams called Lunatrex)....

http://www.wb8elk.com/googlevisit/ (http://www.wb8elk.com/googlevisit/)

The Lunatrex website: _www.lunatrex.org_ (http://www.lunatrex.org/) and _http://www.lunatrex.com/bios.htm_ (http://www.lunatrex.com/bios.htm)

I must say that Google is quite a fun place to work from the looks of it....there are many restaurants on their "campus" all free of charge to the employees....free garden, tons of other free stuff and a relaxed work atmosphere similar to that of a college campus. I didn't see a suit or tie in the whole building (except for those of us in the X Prize teams)....I was sitting next to two fellows who were wearing T-shirts, jeans and tennis shoes at the press event...I assumed that they were college students and asked what college they were from....they replied..."Google University", we own this place....they turned out to be Sergey Brin and Larry Paige, the folks who started Google.

- Bill WB8ELK

**********We found the real ‘Hotel California’ and the ‘Seinfeld’ diner. What will you find? Explore WhereItsAt.com. (http://www.whereitsat.com/#/music/all-spots/355/47.796964/-66.374711/2/Youve-Found-Where-Its-At?ncid=emlcntnew00000007)

5377. BASE 37 essentially completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-05 01:00:49 UTC
From: BASE
Topic: 5377 Message: 5377

Dear friends,

BASE 37 was a successful flight with a hanging ending. Launch was at 1422 UTC from the Cloverdale Middle School in Cloverdale, Indiana. We had an attentive group of about 50 Middle Schoolers to watch the launch. The flight followed the predicted flight path, with burst at 95000 feet at1611 UTC. Landing was just south of the Hancock-Shelby County line at 1734 UTC. The lat/long are 39 d 40 min 48 sec N and 85 deg 51 min 0 sec west. The final 500 feet of the descent was observed by our Cloverdale High School students. Despite the abundance of surrounding farmland, the payload boxes are near the top of a 100 foot ash tree. Surrounding trees prevented the successful use of the EZHang retrieval system.

As of 0 UTC 5 June, the W9YJ-11 beacon is still hitting the digipeater. Recovery of the payloads will be accomplished on Saturday afternoon with the assistance of a friendly property owner.

Thanks for your support,
Howard

5378. [Fwd: [Ballooning] Helium vs. Hydrogen]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-07 00:15:30 UTC
From: Mike Manes
Topic: 5378 Message: 5378

Passed to a larger audience.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [Ballooning] Helium vs. Hydrogen
Date: Sat, 06 Jun 2009 17:07:03 -0600
From: Bruce Coates <bruce.coates@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Hi

Purely due to the increasing cost of Helium, we're investigating using Hydrogen on some future flights. I'm curious to know other groups experiences with Hydrogen. Please weigh in on the following questions: (Sorry, that was a really poor pun)

Are we crazy?
Do I, as my wife suggests, just have a death wish?
What precautions do you take to reduce the risk of ignition? I realize that you need a certain amount of oxygen to reach ignition, but let's assume there's enough air accidentally in the balloon when you start filling.
Anything else?

Thanks

Bruce - VE5BNC
http://ve5aa.dyndns.org/balloon/balloon.html

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5379. Re: [GPSL] [Fwd: [Ballooning] Helium vs. Hydrogen]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-06 23:28:03 UTC
From: Joe
Topic: 5378 Message: 5379

This has all been covered before.

Someplace in the history will be a complete description of what we do.

47 flights every one H2 20+ years of flights.

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>Passed to a larger audience.
>73 de Mike W5VSI, EOSS
>
>-------- Original Message --------
>Subject: [Ballooning] Helium vs. Hydrogen
>Date: Sat, 06 Jun 2009 17:07:03 -0600
>From: Bruce Coates <bruce.coates@...>
>Reply-To: Ballooning@yahoogroups.com
>To: Ballooning@yahoogroups.com
>
>
>
>
>
>Hi
>
>Purely due to the increasing cost of Helium, we're investigating using
>Hydrogen on some future flights. I'm curious to know other groups
>experiences with Hydrogen. Please weigh in on the following questions:
>(Sorry, that was a really poor pun)
>
>Are we crazy?
>Do I, as my wife suggests, just have a death wish?
>What precautions do you take to reduce the risk of ignition? I realize
>that you need a certain amount of oxygen to reach ignition, but let's
>assume there's enough air accidentally in the balloon when you start
>filling.
>Anything else?
>
>Thanks
>
>Bruce - VE5BNC
>http://ve5aa.dyndns.org/balloon/balloon.html
>
>

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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.54/2158 - Release Date: 06/06/09 05:53:00
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>
>

5380. Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-07 20:52:49 UTC
From: L. Paul Verhage
Topic: 5380 Message: 5380

The mission with the Minnesota spacegrant went well. That gave me another state I've launched from and a new state I've recovered in. The 1200 g balloon made 89,095 feet according to my new flight computer. We had a problem when apssing under the antenna null on chase, the first time I can remember that happening. Recoverery was about an hour
inside Wisconsin. The near spacecraft set down on the canopy of old growth forest (t was just a narrow band of trees, but we hit it good). It took 90 minutes to cut down the two trees with a hand saw. Perhaps a chainsaw should be considered standard recovery gear. I'll get video and light data up on my website this week.

--
Onwards and Upwards,
Paul

5381. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-07 20:58:34 UTC
From: Joe
Topic: 5380 Message: 5381

i Paul,

I Missed this, Where in Wisconsin did ya come down?

Youre in my back yard!

Joe

L. Paul Verhage wrote:

>
>
> The mission with the Minnesota spacegrant went well. That gave me
> another state I've launched from and a new state I've recovered in.
> The 1200 g balloon made 89,095 feet according to my new flight
> computer. We had a problem when apssing under the antenna null on
> chase, the first time I can remember that happening. Recoverery was
> about an hour inside Wisconsin. The near spacecraft set down on the
> canopy of old growth forest (t was just a narrow band of trees, but we
> hit it good). It took 90 minutes to cut down the two trees with a
> hand saw. Perhaps a chainsaw should be considered standard recovery
> gear. I'll get video and light data up on my website this week.
>
> --
> Onwards and Upwards,
> Paul
>
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.55/2160 - Release Date: 06/07/09 05:53:00
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5382. WB8ELK Ozone Hitchiker recovery amid the snakes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 08:24:04 UTC
From: wb8elk@aol.com
Topic: 5382 Message: 5382

Had a nice visual sighting and saw the balloon burst with a pair of binoculars.....could see the red parachute at times at 105,000 feet.

Recovered about 500 feet south of the Tennessee River across the river from the Redstone Arsenal in Huntsville... lat: 34deg 34.56 min lon: 086 deg 36.23 min

Website with photos of the launch and recovery:

http://www.wb8elk.com/oz060609.htm (http://www.wb8elk.com/oz060609.htm)

I could hear the CW telemetry from about 2 miles away and was able to copy the final lat/lon coordinates which led me to a field next to a snake-infested swamp (thanks to Gary Dion N4TXI for talking me into the closest drivable approach)....the landowner saw me at the private gate (turned out to be Tony Moore, the owner of the Decatur Tony Moore auto dealership and he allowed me to hike into the area....it was a hot day and he gave me a cold beer before I set out my long hike (not sure if it was because it was hot, or to deaden the pain if I got bit by one of the poisonous snakes in the snake-infested swamps that surrounded the area). About a half mile hike down a trail and I could see the payloads laying out in plain site in a freshly mowed field (but on the other side of a swampy area). It took about a quarter mile detour to get around the swamp worrying all the time about the numerous snake tracks and burrows as I slogged along in the reeds and muck... but I finally got to the payloads laying neatly in the mowed grass.

After getting back to the trail I breathed a sigh of relief that I was now free of the Water Moccasins, the Copperheads and the Rattlers.....just then a 6-foot long snake zoomed across my path nearly running over my shoes....fortunately he was running away from me and not towards me.....I never knew snakes could move so fast.

The parachute was completely fouled up and tangled with the balloon remnants and the chute was even split up the middle....that explained the 17 minute descent (approaching free-fall speeds).

This was the final test of my mini-tracker multi-mode beacon transmitter....Of all the modes I comparison-tested on this flight (RTTY, CW, Hellscreiber, DominoEX11 and DominoEX16), I found that the best all-round mode that even handled the rapid fading of the balloon's rapid descent was the DominoEX modes....winning by a large margin over the other modes. This time I audio modulated the DominoEX tones in FM mode.

I'll be flying it again on 144.34 MHz from Indiana this coming Friday around 11 am EDT from Columbus, IN (Bakalar airfield) as part of the SpacePort Indiana's SpacePort Camp activities.

This flight will just be DominoEX11 in FM mode and CW in SSB mode at a once a minute update rate.....there are two programs I recommend that are both free to download to copy the DominoEX modes: MultiPSK or FLdigi....DM780 under Ham Radio Deluxe will also work, but only when I'm flying the DominoEX8 or 16 modes...for some reason they don't do the default DominoEX mode of 11 baud.

- Bill WB8ELK

**********Download the AOL Classifieds Toolbar for local deals at your fingertips.
(http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004)

5383. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 15:08:29 UTC
From: L. Paul Verhage
Topic: 5380 Message: 5383

About an hour inside Wisconsin along highway 8. We were west of a town
anmed Baron as I recall. I'll be posting updates on this flight on my
webpage today, you can get the exact coordinates there. It would have been
nice to meet you on the chase.

Paul

On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...> wrote:

>
>
> i Paul,
>
> I Missed this, Where in Wisconsin did ya come down?
>
> Youre in my back yard!
>
> Joe
>
> L. Paul Verhage wrote:
>
> The mission with the Minnesota spacegrant went well. That gave me
> another state I've launched from and a new state I've recovered in. The
> 1200 g balloon made 89,095 feet according to my new flight computer. We had
> a problem when apssing under the antenna null on chase, the first time I can
> remember that happening. Recoverery was about an hour
> inside Wisconsin. The near spacecraft set down on the canopy of old growth
> forest (t was just a narrow band of trees, but we hit it good). It took 90
> minutes to cut down the two trees with a hand saw. Perhaps a chainsaw
> should be considered standard recovery gear. I'll get video and light data
> up on my website this week.
>
> --
> Onwards and Upwards,
> Paul
>
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.55/2160 - Release Date: 06/07/09 05:53:00
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Onwards and Upwards,
Paul

5384. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 15:33:23 UTC
From: Joe
Topic: 5380 Message: 5384

Yeah barron is about 3.5 hours away!

joe

L. Paul Verhage wrote:

>
>
> About an hour inside Wisconsin along highway 8. We were west of a
> town anmed Baron as I recall. I'll be posting updates on this flight
> on my webpage today, you can get the exact coordinates there. It
> would have been nice to meet you on the chase.
>
> Paul
>
> On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
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>
> I Missed this, Where in Wisconsin did ya come down?
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> Youre in my back yard!
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> Joe
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> L. Paul Verhage wrote:
>
>> The mission with the Minnesota spacegrant went well. That gave
>> me another state I've launched from and a new state I've
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>> Onwards and Upwards,
>> Paul
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>>Checked by AVG - www.avg.com <http://www.avg.com/>
>>Version: 8.5.339 / Virus Database: 270.12.55/2160 - Release Date: 06/07/09 05:53:00
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.56/2162 - Release Date: 06/08/09 06:01:00
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5385. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 15:55:20 UTC
From: L. Paul Verhage
Topic: 5380 Message: 5385

Okay, that would have been a little tough for a chase.
:)

Well, I suppose I need to look at adding Wisconsin to my states I've
launched from. It probably won't be until next summer, but perhaps we could
get together for a launch.

Paul

On Mon, Jun 8, 2009 at 10:33 AM, Joe <nss@...> wrote:

>
>
> Yeah barron is about 3.5 hours away!
>
> joe
>
> L. Paul Verhage wrote:
>
> About an hour inside Wisconsin along highway 8. We were west of a town
> anmed Baron as I recall. I'll be posting updates on this flight on my
> webpage today, you can get the exact coordinates there. It would have been
> nice to meet you on the chase.
>
> Paul
>
> On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...> wrote:
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>> I Missed this, Where in Wisconsin did ya come down?
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>> L. Paul Verhage wrote:
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>> a problem when apssing under the antenna null on chase, the first time I can
>> remember that happening. Recoverery was about an hour
>> inside Wisconsin. The near spacecraft set down on the canopy of old growth

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>> minutes to cut down the two trees with a hand saw. Perhaps a chainsaw
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>> Onwards and Upwards,
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Onwards and Upwards,
Paul

5386. Launched All States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:00:36 UTC
From: L. Paul Verhage
Topic: 2569 Message: 5386

EOSS, I realized Nebraska wasn't listed as a state you've launch from (GPSL 2005), so I added it.

When anyone gets a chance, could you look under http://nearsys.com/arhab/states.htm and see if I need to add something for you?

--
Onwards and Upwards,
Paul

5387. Re: [GPSL] Launched All States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:09:07 UTC
From: Keith Kaiser
Topic: 2569 Message: 5387

In 2005 GPSL was in Omaha but the actual launch was from Iowa.

On Jun 8, 2009, at 11:00 AM, L. Paul Verhage wrote:

>
>
>
> EOSS, I realized Nebraska wasn't listed as a state you've launch
> from (GPSL 2005), so I added it.
>
> When anyone gets a chance, could you look under http://nearsys.com/arhab/states.htm
> and see if I need to add something for you?
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5388. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:15:39 UTC
From: Joe
Topic: 5380 Message: 5388

How many are you up to now?

And what ya wanna try to fly?

Joe

L. Paul Verhage wrote:

>
>
> Okay, that would have been a little tough for a chase.
> :)
>
> Well, I suppose I need to look at adding Wisconsin to my states I've
> launched from. It probably won't be until next summer, but perhaps we
> could get together for a launch.
>
> Paul
>
> On Mon, Jun 8, 2009 at 10:33 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
>
>
>
> Yeah barron is about 3.5 hours away!
>
> joe
>
> L. Paul Verhage wrote:
>
>> About an hour inside Wisconsin along highway 8. We were west of
>> a town anmed Baron as I recall. I'll be posting updates on this
>> flight on my webpage today, you can get the exact coordinates
>> there. It would have been nice to meet you on the chase.
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>> Paul
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>> On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...
>> <mailto:nss@...>> wrote:
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>> i Paul,
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>> I Missed this, Where in Wisconsin did ya come down?
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>> Youre in my back yard!
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>> Joe
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>> L. Paul Verhage wrote:
>>
>>> The mission with the Minnesota spacegrant went well. That
>>> gave me another state I've launched from and a new state
>>> I've recovered in. The 1200 g balloon made 89,095 feet
>>> according to my new flight computer. We had a problem when
>>> apssing under the antenna null on chase, the first time I
>>> can remember that happening. Recoverery was about an hour
>>> inside Wisconsin. The near spacecraft set down on the
>>> canopy of old growth forest (t was just a narrow band of
>>> trees, but we hit it good). It took 90 minutes to cut down
>>> the two trees with a hand saw. Perhaps a chainsaw should be
>>> considered standard recovery gear. I'll get video and light
>>> data up on my website this week.
>>>
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>>> Onwards and Upwards,
>>> Paul
>>>
>>>---
>>>
>>>
>>>No virus found in this incoming message.
>>>Checked by AVG - www.avg.com <http://www.avg.com/>
>>>Version: 8.5.339 / Virus Database: 270.12.55/2160 - Release Date: 06/07/09 05:53:00
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>> Onwards and Upwards,
>> Paul
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5389. RE: [GPSL] Launched All States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:22:14 UTC
From: Nick Hanks
Topic: 2569 Message: 5389

Keith,

Good catch!

Paul,

EOSS will take credit for Nebraska for GPSL 2007 in Grand Island and for last year□s GPSL in Liberty, Missouri. We□re already credited with Iowa, probably for the 2005 launch Keith mentioned.

73,

Nick

NØLP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Monday, June 08, 2009 10:09
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Launched All States

In 2005 GPSL was in Omaha but the actual launch was from Iowa.

On Jun 8, 2009, at 11:00 AM, L. Paul Verhage wrote:

EOSS, I realized Nebraska wasn't listed as a state you've launch from (GPSL 2005), so I added it.

When anyone gets a chance, could you look under <http://nearsys.com/arhab/states.htm> http://nearsys.com/arhab/states.htm and see if I need to add something for you?

--
Onwards and Upwards,
Paul

73's

Keith Kaiser

wa0tjt@gmail. <mailto:wa0tjt@...> com

5390. Re: [GPSL] Launched All States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:32:08 UTC
From: L. Paul Verhage
Topic: 2569 Message: 5390

Just when I think I'm on top of things.....

Okay, I got EOSS corrected, thanks.

Paul

On Mon, Jun 8, 2009 at 11:22 AM, Nick Hanks <ndhanks@...> wrote:

>
>
> Keith,
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>
> Good catch!
>
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>
>
>
>
>
> Paul,
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>
> EOSS will take credit for Nebraska for GPSL 2007 in Grand Island and for
> last year’s GPSL in Liberty, Missouri. We’re already credited with Iowa,
> probably for the 2005 launch Keith mentioned.
>
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> 73,
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>
> Nick
>
> NØLP
>
> EOSS GPSL Coordinator
>
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> ------------------------------

> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Keith
> Kaiser
> *Sent:* Monday, June 08, 2009 10:09
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Launched All States
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> 2005), so I added it.
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> http://nearsys.com/arhab/states.htm and see if I need to add something for
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> Onwards and Upwards,
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> 73's
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> Keith Kaiser
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> wa0tjt@...
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Onwards and Upwards,
Paul

5391. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:41:16 UTC
From: L. Paul Verhage
Topic: 5380 Message: 5391

I just flew my 72nd flight and in my 10th state. I hope to get North Dakota this summer.

I'll bring a capsule and share a ride with you, we can split the cost. I'll have a tracking capsule with a flight ocmputer that will record data from experiments.

I've uploaded data from my last flight, so look at nearsys.com under 2009C flight results. The two things to look at are the cosmic rays counts and the IR experiment.

The cosmic ray flux began to increase above 81,000 feet - I've never seen that before. I don't think the flight was that much closer to the geomagnetic north pole, but it's something I want to investigate. So I would definitely like to send another Geiger counter up and try to make a higher altitude from a northly launch site.

The IR experiment is a IR thermometer that you point at an object to get its temp. This one is the 90 degree field of view sensor from Parallax. It's inside of two insulated styrofoam tubes and aimed at a 45 degree angle so it can't see the balloon or the sun. Next to it is a LM335 temp sensor. Now it doesn't make sense that the LM335 felt a temp of 100 degrees since it was 50 degrees at launch (so I'll run a test on it). But it is gratifying to see the sensed temp of the sky dropped faster that the temp of the instrument. I'll go home and update the webpage with an mage of the instrument. It's small mysteries like this that make near space so much fun.

Onwards and Upwards,
Paul

On Mon, Jun 8, 2009 at 11:15 AM, Joe <nss@...> wrote:

>
>
> How many are you up to now?
>
> And what ya wanna try to fly?
>
> Joe
>
> L. Paul Verhage wrote:
>
> Okay, that would have been a little tough for a chase.
> :)
>
> Well, I suppose I need to look at adding Wisconsin to my states I've
> launched from. It probably won't be until next summer, but perhaps we could

> get together for a launch.
>
> Paul
>
> On Mon, Jun 8, 2009 at 10:33 AM, Joe <nss@...> wrote:
>
>>
>>
>> Yeah barron is about 3.5 hours away!
>>
>> joe
>>
>> L. Paul Verhage wrote:
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>> About an hour inside Wisconsin along highway 8. We were west of a town
>> anmed Baron as I recall. I'll be posting updates on this flight on my
>> webpage today, you can get the exact coordinates there. It would have been
>> nice to meet you on the chase.
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>> Paul
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>> On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...> wrote:
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>>> I Missed this, Where in Wisconsin did ya come down?
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>>> Youre in my back yard!
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>>> L. Paul Verhage wrote:
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>>> The mission with the Minnesota spacegrant went well. That gave me
>>> another state I've launched from and a new state I've recovered in. The
>>> 1200 g balloon made 89,095 feet according to my new flight computer. We had
>>> a problem when apssing under the antenna null on chase, the first time I can
>>> remember that happening. Recoverery was about an hour
>>> inside Wisconsin. The near spacecraft set down on the canopy of old growth
>>> forest (t was just a narrow band of trees, but we hit it good). It took 90
>>> minutes to cut down the two trees with a hand saw. Perhaps a chainsaw
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>>> Onwards and Upwards,
>>> Paul
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>> Onwards and Upwards,
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>> No virus found in this incoming message.
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Onwards and Upwards,
Paul

5392. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 16:51:35 UTC
From: John Nordlie
Topic: 5380 Message: 5392

On a flight in 2000, we saw an increase in radiation at
~80k as well:

http://balloons.space.edu/habp/project_10/

Turned out a solar flare had erupted the day before.

-JCN

On Mon, 2009-06-08 at 11:41 -0500, L. Paul Verhage wrote:
>
>
> I just flew my 72nd flight and in my 10th state. I hope to get North
> Dakota this summer.
>
> I'll bring a capsule and share a ride with you, we can split the cost.
> I'll have a tracking capsule with a flight ocmputer that will record
> data from experiments.
>
> I've uploaded data from my last flight, so look at nearsys.com under
> 2009C flight results. The two things to look at are the cosmic rays
> counts and the IR experiment.
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> The cosmic ray flux began to increase above 81,000 feet - I've never
> seen that before. I don't think the flight was that much closer to
> the geomagnetic north pole, but it's something I want to investigate.
> So I would definitely like to send another Geiger counter up and try
> to make a higher altitude from a northly launch site.
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> The IR experiment is a IR thermometer that you point at an object to
> get its temp. This one is the 90 degree field of view sensor from
> Parallax. It's inside of two insulated styrofoam tubes and aimed at a
> 45 degree angle so it can't see the balloon or the sun. Next to it is
> a LM335 temp sensor. Now it doesn't make sense that the LM335 felt a
> temp of 100 degrees since it was 50 degrees at launch (so I'll run a
> test on it). But it is gratifying to see the sensed temp of the sky
> dropped faster that the temp of the instrument. I'll go home and
> update the webpage with an mage of the instrument.
>
> It's small mysteries like this that make near space so much fun.
>
> Onwards and Upwards,
> Paul
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> On Mon, Jun 8, 2009 at 11:15 AM, Joe <nss@...> wrote:
>

>
> How many are you up to now?
>
> And what ya wanna try to fly?
>
> Joe
>
> L. Paul Verhage wrote:
> > Okay, that would have been a little tough for a chase.
> > :)
> >
> > Well, I suppose I need to look at adding Wisconsin to my
> > states I've launched from. It probably won't be until next
> > summer, but perhaps we could get together for a launch.
> >
> > Paul
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> > On Mon, Jun 8, 2009 at 10:33 AM, Joe <nss@...> wrote:
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> > Yeah barron is about 3.5 hours away!
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> > joe
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> > L. Paul Verhage wrote:
> > > About an hour inside Wisconsin along highway 8.
> > > We were west of a town anmed Baron as I recall.
> > > I'll be posting updates on this flight on my
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> > > On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...>
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> > > I Missed this, Where in Wisconsin did ya
> > > come down?
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> > > Youre in my back yard!
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> > > Joe
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> > > L. Paul Verhage wrote:

> > > > The mission with the Minnesota
> > > > spacegrant went well. That gave me
> > > > another state I've launched from and a
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> > > > balloon made 89,095 feet according to my
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> > > > spacecraft set down on the canopy
> > > > of old growth forest (t was just a
> > > > narrow band of trees, but we hit it
> > > > good). It took 90 minutes to cut down
> > > > the two trees with a hand saw. Perhaps
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>

5393. Re: [GPSL] Launched All States

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 17:08:13 UTC
From: wb8elk@aol.com
Topic: 2569 Message: 5393

Hi Paul,

I added Missouri at GPSL last year....so that now makes 20 states.

Looking forward to seeing you all at GPSL 2009.

- Bill WB8ELK
**********Download the AOL Classifieds Toolbar for local deals at your fingertips.
(http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004)

5394. Re: [GPSL] Minnesota Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-08 21:21:41 UTC
From: L. Paul Verhage
Topic: 5380 Message: 5394

I recall that. But we're quiet now, so I really need to launch this again
to see what is going on.

Sigh, a near space explorer's work is never done.
Paul
On Mon, Jun 8, 2009 at 11:51 AM, John Nordlie <nordlie@...> wrote:

> On a flight in 2000, we saw an increase in radiation at
> ~80k as well:
>
> http://balloons.space.edu/habp/project_10/
>
> Turned out a solar flare had erupted the day before.
>
> -JCN
>
> On Mon, 2009-06-08 at 11:41 -0500, L. Paul Verhage wrote:
> >
> >
> > I just flew my 72nd flight and in my 10th state. I hope to get North
> > Dakota this summer.
> >
> > I'll bring a capsule and share a ride with you, we can split the cost.
> > I'll have a tracking capsule with a flight ocmputer that will record
> > data from experiments.
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> > I've uploaded data from my last flight, so look at nearsys.com under
> > 2009C flight results. The two things to look at are the cosmic rays
> > counts and the IR experiment.
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> > The cosmic ray flux began to increase above 81,000 feet - I've never
> > seen that before. I don't think the flight was that much closer to
> > the geomagnetic north pole, but it's something I want to investigate.
> > So I would definitely like to send another Geiger counter up and try
> > to make a higher altitude from a northly launch site.
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> > The IR experiment is a IR thermometer that you point at an object to
> > get its temp. This one is the 90 degree field of view sensor from
> > Parallax. It's inside of two insulated styrofoam tubes and aimed at a
> > 45 degree angle so it can't see the balloon or the sun. Next to it is
> > a LM335 temp sensor. Now it doesn't make sense that the LM335 felt a
> > temp of 100 degrees since it was 50 degrees at launch (so I'll run a
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> > dropped faster that the temp of the instrument. I'll go home and
> > update the webpage with an mage of the instrument.

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> > It's small mysteries like this that make near space so much fun.
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> > Onwards and Upwards,
> > Paul
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> > On Mon, Jun 8, 2009 at 11:15 AM, Joe <nss@...> wrote:
> >
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> > How many are you up to now?
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> > And what ya wanna try to fly?
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> > Joe
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> > L. Paul Verhage wrote:
> > > Okay, that would have been a little tough for a chase.
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> > > Well, I suppose I need to look at adding Wisconsin to my
> > > states I've launched from. It probably won't be until next
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> > > Yeah barron is about 3.5 hours away!
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> > > L. Paul Verhage wrote:
> > > > About an hour inside Wisconsin along highway 8.
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> > > > I'll be posting updates on this flight on my
> > > > webpage today, you can get the exact coordinates
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> > > > On Sun, Jun 7, 2009 at 3:58 PM, Joe <nss@...>
> > > > wrote:
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> > > > i Paul,
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> > > > I Missed this, Where in Wisconsin did ya
> > > > come down?
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> > > > Youre in my back yard!
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> Yahoo! Groups Links

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Onwards and Upwards,
Paul

5395. The South Texas Balloon Launch Team

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-09 01:23:25 UTC
From: Harry M
Topic: 5395 Message: 5395

I don't remember if anyone has posted a link to this before so I thought I'd share the link.

The South Texas Balloon Launch Team

http://www.w5acm.net/

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

5396. Re: [GPSL] The South Texas Balloon Launch Team

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-09 03:18:21 UTC
From: L. Paul Verhage
Topic: 5395 Message: 5396

Harry, did you launch last year at GPSL? I don't have you listed for
Missouri in the Lanched All Stats page.

Paul

On Mon, Jun 8, 2009 at 8:23 PM, Harry M <hhm_74115@...> wrote:

>
>
> I don't remember if anyone has posted a link to this before so I thought
> I'd share the link.
>
>
> The South Texas Balloon Launch Team
> http://www.w5acm.net/
>
>
>
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> -----
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Onwards and Upwards,
Paul

5397. Re: [GPSL] The South Texas Balloon Launch Team

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-09 15:14:14 UTC
From: Harry M
Topic: 5395 Message: 5397

Hi Paul,

Yes I did fly. The flight was ORB-24.

73 Harry

> Harry, did you launch last year at GPSL? I don't have you listed for
> Missouri in the Lanched All Stats page.

5398. Re: [GPSL] The South Texas Balloon Launch Team

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-09 15:20:52 UTC
From: L. Paul Verhage
Topic: 5395 Message: 5398

Okay, I've added Missouri to the list of states for ORB. I'll update the webpage shortly.

Are you planning a launch for the September/October time frame? I'd like to add Oklahoma to my list of states I've launched from.

Paul

On Tue, Jun 9, 2009 at 10:14 AM, Harry M <hhm_74115@...> wrote:

> Hi Paul,
>
> Yes I did fly. The flight was ORB-24.
>
> 73 Harry
>
> -----
>
> > Harry, did you launch last year at GPSL? I don't have you listed for
> > Missouri in the Lanched All Stats page.
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5399. Re: [GPSL] The South Texas Balloon Launch Team

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-09 15:32:26 UTC
From: Harry M
Topic: 5395 Message: 5399

OSU and I had planned to fly a dual flight sometime this year. It could be this fall. I'll let you know if we do. If we don't, maybe you and I can work something else out.

Harry

> Are you planning a launch for the September/October time frame?

5400. Lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-10 19:38:33 UTC
From: L. Paul Verhage
Topic: 4427 Message: 5400

Right now it looks like lunch and snacks will run $15 per person.

I'll be contacting Royal Valley HS about using their school as a launch site
next week when the principal gets back. The RC air strip didn't work out.
I'm putting the schedule together now, so expect that by tomorrow.

--
Onwards and Upwards,
Paul

5401. 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 04:00:38 UTC
From: L. Paul Verhage
Topic: 5401 Message: 5401

I'm looking at the datasheet of the radio I'm using in my flight computers and see it has an impedance of 50 ohms. The SMA connector I want to use fits a 50 ohm RG174 perfectly. I like dipole antennas, but see their impedance should be 73 ohms. If I was reasonably accurate with th online SWR program I used, then SWR beween a 50 ohm coax and a 73 ohm antenna is not much greater than 1.0. So it sounds like the radio and antenna should work well.

But after a little more reading, I see the Inverted Vee antenna is closer to 50 ohms and it has a smaller null (it's more isotropic). So it seems a better match is is easy to make (just bend the antenna elements to a 90 deg angle).
I'm wondering if my loss from adding a 73 ohm dipole to a 50 ohm coax and radio is worth the effort to create an inverted vee antenna.

Any thoughts? Is a dipole close enough? We did see a null in my flight computer last weekend as we drove beneath it, the first time I remember seeing this.

--
Onwards and Upwards,
Paul

5402. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 12:36:55 UTC
From: Joe
Topic: 5401 Message: 5402
Attachments: 1 described; binary payloads are missing from this source WARC

Hi paul,

L. Paul Verhage wrote:

>
>
> I'm looking at the datasheet of the radio I'm using in my flight
> computers and see it has an impedance of 50 ohms. The SMA connector I
> want to use fits a 50 ohm RG174 perfectly. I like dipole antennas,
> but see their impedance should be 73 ohms. If I was reasonably
> accurate with th online SWR program I used, then SWR beween a 50 ohm
> coax and a 73 ohm antenna is not much greater than 1.0. So it sounds
> like the radio and antenna should work well.
>
> But after a little more reading, I see the Inverted Vee antenna is
> closer to 50 ohms and it has a smaller null (it's more isotropic). So
> it seems a better match is is easy to make (just bend the antenna
> elements to a 90 deg angle).
> I'm wondering if my loss from adding a 73 ohm dipole to a 50 ohm coax
> and radio is worth the effort to create an inverted vee antenna.
>
> Any thoughts? Is a dipole close enough? We did see a null in my
> flight computer last weekend as we drove beneath it, the first time I
> remember seeing this.
>
> --
> Onwards and Upwards,
> Paul
>
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.339 / Virus Database: 270.12.63/2169 - Release Date: 06/11/09 05:53:00
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5403. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 14:07:13 UTC
From: Joe
Topic: 5401 Message: 5403
Attachments: 1 described; binary payloads are missing from this source WARC

Paul,

Id run some modeling for you if you need it, but I thought of this several years ago also, and from what the modeling showed was very disturbing.

The pattern if you assume all polarities looks good, and as you thought very close to isotropic. really!

but when you add the factor of a linerally polarize antenna for receive, then it's horrid! easily 50% of your power is being radiated in polarities you cant use. plus at angles you don't want either. modeling it looks terrible for a balloon antenna.

Personally if i were you i'd go with a inverted ground plane,

Sloping the radials close to a 45Deg gives ya the 50 ohms you want, flat ground plane 36 ohms, straight ground plane (dipole 75 ohms, and a ground plane with sloping radials 50, change angle to make best match.

Plus its truly omni, and only vertically polarized, all the power is going into one polarity.

Yes there is a null still but it's directly under the payload. where the free space loss is the least anyway,.

Now,,,, if you really want to get creative,,, The best video we ever got was using a Horizontally polarized antenna like a turnstyle or OAL's wheels, BUT

spaced under a reflector at 0.54 wave below the reflector. This was awesome!!

it gave a omni downward tilting main lobe with a downward tilt of about 20 degrees. AND a downward lobe that is about straight down that is about 10 db below the main out to the horizon lobe. so pretty balanced for free space losses. This antenna gave us the best images both on the horizon as well as for the chase teams directly below the payloads.

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> I'm looking at the datasheet of the radio I'm using in my flight

> computers and see it has an impedance of 50 ohms. The SMA connector I
> want to use fits a 50 ohm RG174 perfectly. I like dipole antennas,
> but see their impedance should be 73 ohms. If I was reasonably
> accurate with th online SWR program I used, then SWR beween a 50 ohm
> coax and a 73 ohm antenna is not much greater than 1.0. So it sounds
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> elements to a 90 deg angle).
> I'm wondering if my loss from adding a 73 ohm dipole to a 50 ohm coax
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5404. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 17:02:40 UTC
From: Mike Manes
Topic: 5401 Message: 5404

Hi Paul,

A simple vertical dipole fed with 50-ohms oughta work just fine, presenting less than 1.5:1 VSWR. You probably wouldn't want to run the dipole or inverted V in a horizontal orientation, since you'd get a lot a spin fading as the nulls of each end point your direction. But if you make your dipole vertical, you'll have to mount it right on your payload to keep the coax shield from messing up the pattern and impedance, and that will drive a lot of RF into the payload guts.

We've had great luck with a flexible J-pole, modeled after the MFJ "pocket rollup", which has the same pattern as a vertical dipole, but since it's end-fed, isn't bothered by the feedline. Since the radiator is an end-fed half-wave that has a real high feed impedance, the counterpoise current is minimal, so not much creeps back up the outside of the coax to make mischief inside the payload.

If you strap it to your payload support line with generous slack in the copper, it'll last a long time over many flights, especially if you replace the RG-58 with RG-142.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I'm looking at the datasheet of the radio I'm using in my flight
> computers and see it has an impedance of 50 ohms. The SMA connector I
> want to use fits a 50 ohm RG174 perfectly. I like dipole antennas, but
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> radio and antenna should work well.
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> But after a little more reading, I see the Inverted Vee antenna is
> closer to 50 ohms and it has a smaller null (it's more isotropic). So
> it seems a better match is is easy to make (just bend the antenna
> elements to a 90 deg angle).
> I'm wondering if my loss from adding a 73 ohm dipole to a 50 ohm coax
> and radio is worth the effort to create an inverted vee antenna.
>
> Any thoughts? Is a dipole close enough? We did see a null in my flight
> computer last weekend as we drove beneath it, the first time I
> remember seeing this.
>
> --

> Onwards and Upwards,
> Paul
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5405. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 17:05:52 UTC
From: Mike Manes
Topic: 5401 Message: 5405

Oh, one other thing re the null when driving under the payload: if you're using a vertical on your mobile, you're putting two antenna nulls end to end. Remove one of 'em by moving your mag mount to the side of the car so the mobile whip is more horizontal. Works well.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I'm looking at the datasheet of the radio I'm using in my flight
> computers and see it has an impedance of 50 ohms. The SMA connector I
> want to use fits a 50 ohm RG174 perfectly. I like dipole antennas, but
> see their impedance should be 73 ohms. If I was reasonably accurate
> with th online SWR program I used, then SWR beween a 50 ohm coax and a
> 73 ohm antenna is not much greater than 1.0. So it sounds like the
> radio and antenna should work well.
>
> But after a little more reading, I see the Inverted Vee antenna is
> closer to 50 ohms and it has a smaller null (it's more isotropic). So
> it seems a better match is is easy to make (just bend the antenna
> elements to a 90 deg angle).
> I'm wondering if my loss from adding a 73 ohm dipole to a 50 ohm coax
> and radio is worth the effort to create an inverted vee antenna.
>
> Any thoughts? Is a dipole close enough? We did see a null in my flight
> computer last weekend as we drove beneath it, the first time I
> remember seeing this.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

5406. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 17:00:12 UTC
From: Harry M
Topic: 5401 Message: 5406

Paul,

I have used dipoles on every flight for APRS and beacon. They are directly attached to the capsule with RG-174 running through the side. They have performed very well. I cut the dipoles a little long then tune them after they are attached. I've had all but a 1/2" of the hot and gnd radial tore off from post-burst trauma and still got enough of a signal to recover the payloads with my 1/4 wave mobile antenna.

Harry
KC5TRB

5407. Re: 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 17:36:10 UTC
From: w0jrt
Topic: 5401 Message: 5407

My preferred solution to this problem: Drive to where the balloon is going to land, not underneath it during the flight.

-Jerome, W0JRT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Oh, one other thing re the null when driving under the payload: if
> you're using a vertical on your mobile, you're putting two antenna
> nulls end to end. Remove one of 'em by moving your mag mount to the
> side of the car so the mobile whip is more horizontal. Works well.
>
> 73 de Mike W5VSI

5408. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 18:39:21 UTC
From: Harry M
Topic: 5401 Message: 5408

BTW - To cover the hot radial I use plastic tubing that is intended for RC car antennas. It comes in 3' lengths and can be found at your local hobby shop. It gives the radial rigidity. I just leave the gnd radial hang free.

5409. Near Space Tower

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 18:47:25 UTC
From: L. Paul Verhage
Topic: 5409 Message: 5409

Here's a link to a near space tower, or smaller version of a space elevator.

http://io9.com/5286080/scientists-design-the-next-best-thing-to-a-space-elevator

--
Onwards and Upwards,
Paul

5410. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 18:49:49 UTC
From: L. Paul Verhage
Topic: 5401 Message: 5410

So what I'm reading, there's no reason not to use a dipole on a 50 ohm radio, the SWR is low enough. The other designs are nice, but I like the dipole's simplicity.

I normally use a dipole and have build a PCB to make it more durable.
Paul
On Thu, Jun 11, 2009 at 1:39 PM, Harry M <hhm_74115@...> wrote:

>
>
> BTW - To cover the hot radial I use plastic tubing that is intended for RC
> car antennas. It comes in 3' lengths and can be found at your local hobby
> shop. It gives the radial rigidity. I just leave the gnd radial hang free.
>
>
>
>
>

--
Onwards and Upwards,
Paul

5411. Re: [GPSL] Re: 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 22:12:43 UTC
From: Mike Manes
Topic: 5401 Message: 5411

Agreed. Our trackers deploy to the predicted landing site before launch. But, on some of our summer flights, the balloons have picked up the strong upper easterlies and have flown right smack over the ground station at the launch site. In those cases, we've just switched over to a mag mount stuck to a vertical surface. Simple fix. And Joe's observation that range loss is fairly low compared to 100 miles downrange is right on.

73 de Mike W5VSI

w0jrt wrote:
> My preferred solution to this problem: Drive to where the balloon is going to land, not underneath it during the flight.
>
> -Jerome, W0JRT
>
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>> Oh, one other thing re the null when driving under the payload: if
>> you're using a vertical on your mobile, you're putting two antenna
>> nulls end to end. Remove one of 'em by moving your mag mount to the
>> side of the car so the mobile whip is more horizontal. Works well.
>>
>> 73 de Mike W5VSI
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5412. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 21:27:55 UTC
From: Harry M
Topic: 5401 Message: 5412

Paul, I usually end up with a 1.2:1 match on my dipoles. If I remember right, Bill Brown heard my 12mw bcn (on a dipole) at 95k in Ok. He was in Huntsville using a 3-ele and an HT.

5413. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-11 23:31:43 UTC
From: Joe
Topic: 5401 Message: 5413

Plus, I would think a dipole that close to the payload will be de tuned
by the Box if shielded like ours always are, a dipole in full contact
with foil I bet has a horrid SWR.

Or if a bare box then still all the rest of the wiring in the box and
or componenents so close must also de tune it too as well as make it
FAR from omnidirectiioal

Joe WB9SBD
Near Space Sciences

Harry M wrote:

>
>
> Paul, I usually end up with a 1.2:1 match on my dipoles. If I remember
> right, Bill Brown heard my 12mw bcn (on a dipole) at 95k in Ok. He
> was in Huntsville using a 3-ele and an HT.
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.364 / Virus Database: 270.12.63/2169 - Release Date: 06/11/09 05:53:00
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5414. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 00:47:38 UTC
From: Mike Manes
Topic: 5401 Message: 5414

Not to mention irradiating all the sensitive naughty bits inside the box.

Joe wrote:
>
>
> Plus, I would think a dipole that close to the payload will be de tuned
> by the Box if shielded like ours always are, a dipole in full contact
> with foil I bet has a horrid SWR.
>
> Or if a bare box then still all the rest of the wiring in the box and
> or componenents so close must also de tune it too as well as make it
> FAR from omnidirectiioal
>
>
> Joe WB9SBD
> Near Space Sciences
>
> Harry M wrote:
>> Paul, I usually end up with a 1.2:1 match on my dipoles. If I remember
>> right, Bill Brown heard my 12mw bcn (on a dipole) at 95k in Ok. He
>> was in Huntsville using a 3-ele and an HT.
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A. Einstein

5415. Re: [GPSL] 50 Ohm Antenna

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 02:57:05 UTC
From: Harry M
Topic: 5401 Message: 5415

Like I said, tune them after they are mounted. Never have had a problem irradiating anything in the box either. One nice little benefit on an Xband repeater flight though... even though the Xband HT was in a capsule 8 ft below, every time the xband was keyed up the 12mw CW bcn ID was heard very faintly on the Xband carrier providing an unexpected ID for the Xband. ;)

5416. ANSR sending up UFOs?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 06:30:50 UTC
From: Greg Williams
Topic: 5416 Message: 5416

Light spotted in Phoenix sky IDed as weather balloon

http://www.azcentral.com/community/phoenix/articles/2009/06/11/20090611brightlight-ON.html

Greg Williams
gregwilliams@...
k4hsm@...

5417. GPSL Plans

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 16:15:15 UTC
From: L. Paul Verhage
Topic: 5417 Message: 5417
Attachments: 1 described; binary payloads are missing from this source WARC

The school in Hoyt is a little tight for space, so I've contacted the city park. It will be our backup launch site.

I've attached my GPSL plans. New this time is the tentative schedule. Please look it over and make comments.

Also see if I missed adding attendees.

Keith, what do we have to do to have the movie at KATS? Will it be sent to us? also, do you know how we take care of the cost?

Mark, can you monitor the weather and make predictions at GPSL?

Thanks everyone,

--
Onwards and Upwards,
Paul

5418. Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 17:15:50 UTC
From: L. Paul Verhage
Topic: 5192 Message: 5418

The pressure sensors have arrived. There were about a dozen of them spoken for, but I can't find those emails. If you're interested on one, please let me know. The cost is $10.10 and I'll have them available for pick up at GPSL.

The rest of them are for the weather station kit I'm producing, so I can only let those first dozen go.

My website, under catalog, will have the datasheets.

--
Onwards and Upwards,
Paul

5419. Re: [GPSL] Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 21:08:23 UTC
From: Mike Manes
Topic: 5192 Message: 5419

Your web site URL, pls?

L. Paul Verhage wrote:
>
>
> The pressure sensors have arrived. There were about a dozen of them
> spoken for, but I can't find those emails. If you're interested on one,
> please let me know. The cost is $10.10 and I'll have them available for
> pick up at GPSL.
>
> The rest of them are for the weather station kit I'm producing, so I
> can only let those first dozen go.
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> My website, under catalog, will have the datasheets.
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> Onwards and Upwards,
> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5420. Re: [GPSL] Pressure Sensors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-12 20:42:13 UTC
From: L. Paul Verhage
Topic: 5192 Message: 5420

Sorry, try nearsys.com/catalog.

Paul

On Fri, Jun 12, 2009 at 4:08 PM, Mike Manes <mrmanes@...> wrote:

> Your web site URL, pls?
>
> L. Paul Verhage wrote:
> >
> >
> > The pressure sensors have arrived. There were about a dozen of them
> > spoken for, but I can't find those emails. If you're interested on one,
> > please let me know. The cost is $10.10 and I'll have them available for
> > pick up at GPSL.
> >
> > The rest of them are for the weather station kit I'm producing, so I
> > can only let those first dozen go.
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> > My website, under catalog, will have the datasheets.
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> > Onwards and Upwards,
> > Paul
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5421. Balloons in the air now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-13 20:44:49 UTC
From: Joe
Topic: 5421 Message: 5421

anyone know what on these flightsd Two balloons like 100 feet apart

kd0awk-11 and kd0bgq-11

joe WB9SBD

Near Space sciences

5422. Re: [GPSL] Balloons in the air now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-13 20:57:18 UTC
From: Douglas Crandall
Topic: 5421 Message: 5422

Don't know but still gating them from time to time at this rate they may end
up in the big lake
Doug KB9ZWL

On Sat, Jun 13, 2009 at 3:44 PM, Joe <nss@...> wrote:

>
>
> anyone know what on these flightsd Two balloons like 100 feet apart
>
> kd0awk-11 and kd0bgq-11
>
> joe WB9SBD
>
> Near Space sciences
>
>

5423. Re: [GPSL] Balloons in the air now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-14 00:57:04 UTC
From: BASE
Topic: 5421 Message: 5423

The packets indicate that the flight is from the University of Minnesota and the Minnesota Space Grant program. One beacon is the primary, and the other the secondary. With the time slotting, there are altitude differences, but it appears that both are on the same flight string.

Howard

--- On Sat, 6/13/09, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Balloons in the air now
To: GPSL@yahoogroups.com
Date: Saturday, June 13, 2009, 4:44 PM

anyone know what on these flightsd Two balloons like 100 feet apart

kd0awk-11 and kd0bgq-11

joe WB9SBD

Near Space sciences

5424. Re: [Ballooning] Helium vs. Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 01:37:50 UTC
From: Mike Manes
Topic: 5424 Message: 5424

Historically, the greatest risk of H2 ignition in ballooning is
static discharge. It takes 100 x less energy to ignite an H2-air
mixture than a methane-air mixture.

And 100% H2 won't burn, but the stoichiometric range is like 14% to 75% -
much broader than other gaseous fuels.

Re purging the fill line with H2: when you crack the valve on an H2
bottle, expect a "pop" and maybe even a sustained flame. It seems the
intense vortex created by a slightly cracked valve can produce bubbles
of very high temperature at their cores. So better to purge with N2 or
CO2, although if that "pop" is constrained to a tube, then it'll be
pretty well contained and won't propagate far, since it consumes the
available O2.

73 de Mike W5VSI

Jason KG4WSV wrote:
> I've never used H2, but I don't perceive it to be the boogeyman that
> some folks do. If you fill outdoors and keep smokers away, I would
> expect no other changes to He fill procedures. For indoor fills,
> you'll need to take a closer look at procedures, the fill area
> (ignition sources, ventilation, etc).
>
> Not sure what your balloons look like, but I would be terribly
> surprised to get a significant amount of air in the balloon. OK, that
> could be read two ways when H2 is involved; let me say I don't see how
> you could get a significant amount of air into the balloon envelope,
> especially if you purge the line with H2 before beginning the fill.
>
> Pure H2 will burn, not explode. Escaped H2 in an enclosed area could
> lead to bad news (FAE, fuel-air explosion).
>
> We routinely pipe flammable gasses into our labs, workplaces, and
> homes. IMO H2 shouldn't be that big a challenge to handle safely.
>
> It sort of surprised me that folks get worried about using flammable
> H2, but nobody seems to bat an eye at the >2kPSI pressures involved
> with the "safe" He. Nearly all of the balloon fill rigs I have
> observed don't bother with regulators, but the plumbing in use sure
> isn't rated for 2000PSI pressures...
>
> -Jason
> kg4wsv
>
>

> ------------------------------------
>
> To start sending messages to members of this group,
> simply send email to
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> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5425. Re: [Ballooning] Helium vs. Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 02:45:14 UTC
From: Mike Manes
Topic: 5424 Message: 5425

Hi Joe,

You've got the luxury of filling inside a barn, out of the wind. EOSS has to operate from open fields with AC power and latrine access, well clear of Denver's Class B airspace, and a 3000 gm balloon is about 18 ft tall when filled to 30+ lb neck lift - that's one tall barn! So we get it over with fast - with no regulator, which has frozen up on us a couple of times - just straight into a manifold and a 1/2" rubber hose to the fill rig - in under 15 minutes. We can get two flights off 20 minutes apart. See:

http://www.eoss.org/ansrecap/ar_131/recap140_141.htm

We're seriously considering going to H2, but right now, Colo Space Grant says they're willing to wait for He to get a lot more pricey for their flights. We may do some self-sponsored flights in H2 in the near future, however.

73 de Mike W5VSI

Joe wrote:
>
>
> That could be with nothing attached. but Like i said we always use a
> regulator and SLOW flow.
>
> a 1500 gram balloon with a 4 pound payload and total lift of 5 pounds at
> the neck (1 pound positive lift) on the average takes us 45 min to 1
> hour to fill.
>
> Joe WB9SBD
> Near Space Sciences
>
> Mike Manes wrote:
>> I've heard that cracking the bottle with nothing attached to the outlet
>> can create a sustained flame - from 2 separate sources.
>>
>> Joe wrote:
>>
>>> Mike Manes wrote:
>>> [SNIP]
>>>
>>>
>>>> Re purging the fill line with H2: when you crack the valve on an H2
>>>> bottle, expect a "pop" and maybe even a sustained flame. It seems the
>>>> intense vortex created by a slightly cracked valve can produce bubbles
>>>> of very high temperature at their cores. So better to purge with N2 or

>>>> CO2, although if that "pop" is constrained to a tube, then it'll be
>>>> pretty well contained and won't propagate far, since it consumes the
>>>> available O2.
>>>>
>>>>
>>>>
>>> Or simply use a regulator, there may be many K of psi in the bottle,
>>> but when we fill out balloons it starts off at zero psi in the filler
>>> hose and slowly is worked up to only 1 to 2 psi of air flow or i should
>>> say H2 flow.
>>>
>>> Joe WB9SBD
>>> Near Space Sciences
>>>
>>>
>>>>
>>>>
>>>>
>>> ------------------------------------
>>>
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>>>
>>> Ballooning@yahoogroups.com
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>>> Ballooning-unsubscribe@yahoogroups.com
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>>> You may also visit the eGroups web site to modify your
>>> subscriptions:
>>>
>>> http://groups.yahoo.com/group/Ballooning
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>>>
>>> Ballooning-owner@yahoogroups.com
>>>
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>>> Regards,
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>>> Moderator, Ballooning
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>>> Yahoo! Groups Links
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.364 / Virus Database: 270.12.69/2176 - Release Date: 06/14/09 17:54:00
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5426. Re: [GPSL] Re: [Ballooning] Helium vs. Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 02:05:22 UTC
From: Joe
Topic: 5424 Message: 5426

yeah i'll agree on that. For 90% of the flights we have done mostly
indoor inflates. so yeah got me there.. we have done a few outside
fills but then they wer dead calm too like with the giant PE balloon.

Joe

Mike Manes wrote:

>Hi Joe,
>
>You've got the luxury of filling inside a barn, out of the wind. EOSS has
>to operate from open fields with AC power and latrine access, well clear of
>Denver's Class B airspace, and a 3000 gm balloon is about 18 ft tall when
>filled to 30+ lb neck lift - that's one tall barn! So we get it over with
>fast - with no regulator, which has frozen up on us a couple of times - just
>straight into a manifold and a 1/2" rubber hose to the fill rig - in under 15
>minutes. We can get two flights off 20 minutes apart. See:
>
>http://www.eoss.org/ansrecap/ar_131/recap140_141.htm
>
>We're seriously considering going to H2, but right now, Colo Space
>Grant says they're willing to wait for He to get a lot more pricey for
>their flights. We may do some self-sponsored flights in H2 in the
>near future, however.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>That could be with nothing attached. but Like i said we always use a
>>regulator and SLOW flow.
>>
>>a 1500 gram balloon with a 4 pound payload and total lift of 5 pounds at
>>the neck (1 pound positive lift) on the average takes us 45 min to 1
>>hour to fill.
>>
>>Joe WB9SBD
>>Near Space Sciences
>>
>>Mike Manes wrote:
>>
>>
>>>I've heard that cracking the bottle with nothing attached to the outlet
>>>can create a sustained flame - from 2 separate sources.
>>>

>>>Joe wrote:
>>>
>>>
>>>
>>>>Mike Manes wrote:
>>>>[SNIP]
>>>>
>>>>
>>>>
>>>>
>>>>>Re purging the fill line with H2: when you crack the valve on an H2
>>>>>bottle, expect a "pop" and maybe even a sustained flame. It seems the
>>>>>intense vortex created by a slightly cracked valve can produce bubbles
>>>>>of very high temperature at their cores. So better to purge with N2 or
>>>>>CO2, although if that "pop" is constrained to a tube, then it'll be
>>>>>pretty well contained and won't propagate far, since it consumes the
>>>>>available O2.
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>>Or simply use a regulator, there may be many K of psi in the bottle,
>>>>but when we fill out balloons it starts off at zero psi in the filler
>>>>hose and slowly is worked up to only 1 to 2 psi of air flow or i should
>>>>say H2 flow.
>>>>
>>>>Joe WB9SBD
>>>>Near Space Sciences
>>>>
>>>>
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>>>>
>>>>To start sending messages to members of this group,
>>>>simply send email to
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>>>>Ballooning@yahoogroups.com
>>>>
>>>>If you do not wish to belong to Ballooning, you may
>>>>unsubscribe by sending an email to
>>>>
>>>>Ballooning-unsubscribe@yahoogroups.com
>>>>

>>>>You may also visit the eGroups web site to modify your
>>>>subscriptions:
>>>>
>>>>http://groups.yahoo.com/group/Ballooning
>>>>
>>>>To email the list Owner, just send a message to the
>>>>following address:
>>>>
>>>>Ballooning-owner@yahoogroups.com
>>>>
>>>>
>>>>Regards,
>>>>
>>>>Moderator, Ballooning
>>>>
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>>>>Yahoo! Groups Links
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>>>
>>>No virus found in this incoming message.
>>>Checked by AVG - www.avg.com
>>>Version: 8.5.364 / Virus Database: 270.12.69/2176 - Release Date: 06/14/09 17:54:00
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>
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>Version: 8.5.364 / Virus Database: 270.12.69/2176 - Release Date: 06/14/09 17:54:00
>
>
>

5427. Re: [Ballooning] Helium vs. Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 03:08:33 UTC
From: Mike Manes
Topic: 5424 Message: 5427

Sure wish this reflector didn't force a "Reply To"!

We start our full pretty slowly to avoid "luffing" the latex. But as the balloon fills out and lifts, we crank it up pretty hot. Gets REAL noisy! The manifold lets us tie into 3 bottles at once, which makes switching bottles quick and easy - it takes about 2.5 T-bottles to fill a 3000 to 30 lb neck lift. When the 1st bottle empties, just shut its valve and open the 2nd one, etc.

73 de Mike W5VSI

Joe wrote:
>
>
> it's how we always did it, I guess it came at first from the Haysam days
> where their instructions stated to fill slowly, and i guess by accident
> then we don't have that "Spark/flame" possibility?
>
> But it's just the way we;ve always done it, and since 90% or more of
> our flights have exceeded the 10K mark all the time I'm not gonna mess
> with what works too
>
>
> Jason KG4WSV wrote:
>> On Sun, Jun 14, 2009 at 8:26 PM, Joe<nss@...> wrote:
>>
>>> That could be with nothing attached. but Like i said we always use a
>>> regulator and SLOW flow.
>>>
>>> a 1500 gram balloon with a 4 pound payload and total lift of 5 pounds at the
>>> neck (1 pound positive lift) on the average takes us 45 min to 1 hour to
>>> fill.
>>>
>>
>> Why such a low flow rate?
>>
>> -Jason
>> kg4wsv
>>
>>
>> ------------------------------------
>>
>> To start sending messages to members of this group,
>> simply send email to
>>
>> Ballooning@yahoogroups.com

>>
>> If you do not wish to belong to Ballooning, you may
>> unsubscribe by sending an email to
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>> Ballooning-unsubscribe@yahoogroups.com
>>
>> You may also visit the eGroups web site to modify your
>> subscriptions:
>>
>> http://groups.yahoo.com/group/Ballooning
>>
>> To email the list Owner, just send a message to the
>> following address:
>>
>> Ballooning-owner@yahoogroups.com
>>
>>
>> Regards,
>>
>> Moderator, Ballooning
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>> Yahoo! Groups Links
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>>
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>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5428. Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 15:25:52 UTC
From: L. Paul Verhage
Topic: 5428 Message: 5428

Yes!!

I need to ask about frequencies in the KC area, since we should be headed generally in that direction.

It seems that the launches I've done so far from KU, that 144.390 was open. Keith, and anyone else familar with the KC area, is that true? I'm stuck on 144.390 for some of my trakers. Is that the case for others?

I'm going to recommend 144.390 be the standard and that we time slot. Does anyone else plan to use something different like 144.36?

Let me know what frequency you'd like to use and a time slot. I'll add that to a new page and email the result back to the list for deconfliction.

Paul
---------- Forwarded message ----------
From: Mark Conner <mconner1@...>
Date: Mon, Jun 15, 2009 at 9:36 AM
Subject: Frequency coordination for GPSL
To: Paul Verhage KD4STH <nearsys@...>

Paul,

It's probably about time to gather up frequency requests so we don't have a bunch of last-minute shuffling to do.

- Mark

--
Onwards and Upwards,
Paul

5429. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 16:24:45 UTC
From: Keith Kaiser
Topic: 5428 Message: 5429

Paul,

We might want to use 144.990 it is gated and has less traffic.

On Jun 15, 2009, at 10:25 AM, L. Paul Verhage wrote:

>
>
>
> Yes!!
>
> I need to ask about frequencies in the KC area, since we should be
> headed generally in that direction.
>
> It seems that the launches I've done so far from KU, that 144.390
> was open. Keith, and anyone else familar with the KC area, is that
> true? I'm stuck on 144.390 for some of my trakers. Is that the
> case for others?
>
> I'm going to recommend 144.390 be the standard and that we time
> slot. Does anyone else plan to use something different like 144.36?
>
> Let me know what frequency you'd like to use and a time slot. I'll
> add that to a new page and email the result back to the list for
> deconfliction.
>
>
> Paul
> ---------- Forwarded message ----------
> From: Mark Conner <mconner1@...>
> Date: Mon, Jun 15, 2009 at 9:36 AM
> Subject: Frequency coordination for GPSL
> To: Paul Verhage KD4STH <nearsys@...>
>
>
> Paul,
>
> It's probably about time to gather up frequency requests so we don't
> have a bunch of last-minute shuffling to do.
>
> - Mark
>
>
>
> --
> Onwards and Upwards,

> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5430. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 16:32:07 UTC
From: Mark Conner
Topic: 5428 Message: 5430

NSTAR would like to use 144.36 (primary) and 144.39 (secondary). 144.39 would be a single TX once per minute. Both are flexible though.

- Mark

On Mon, Jun 15, 2009 at 10:25, L. Paul Verhage <nearsys@...> wrote:

>
>
> Yes!!
>
> I need to ask about frequencies in the KC area, since we should be headed
> generally in that direction.
>
> It seems that the launches I've done so far from KU, that 144.390 was
> open. Keith, and anyone else familar with the KC area, is that true? I'm
> stuck on 144.390 for some of my trakers. Is that the case for others?
>
> I'm going to recommend 144.390 be the standard and that we time slot. Does
> anyone else plan to use something different like 144.36?
>
> Let me know what frequency you'd like to use and a time slot. I'll add
> that to a new page and email the result back to the list for deconfliction.
>
>
> Paul
> ---------- Forwarded message ----------
> From: Mark Conner <mconner1@...>
> Date: Mon, Jun 15, 2009 at 9:36 AM
> Subject: Frequency coordination for GPSL
> To: Paul Verhage KD4STH <nearsys@...>
>
>
> Paul,
>
> It's probably about time to gather up frequency requests so we don't have a
> bunch of last-minute shuffling to do.
>
> - Mark
>
>
>
> --
> Onwards and Upwards,
> Paul
>

>
>
>

5431. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 16:50:08 UTC
From: Harry M
Topic: 5428 Message: 5431

ORB would like to use 144.340 xmt / 144.240 rcv
No time slot and transmitting every 15 or 30 seconds.
The .240 rcv only is for cutdown.

Harry

5432. Amazing balloon burst video from the June 12th Spaceport Indiana launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 17:17:25 UTC
From: wb8elk@aol.com
Topic: 5432 Message: 5432

I put the Flip Ultra digital camcorder unit on this pointing up at the balloon for our Spaceport Camp student flight. We had video cameras pointing up, down and at the horizon as well as Canon still cameras. In the past, I've used the RCA SmallWonder units but they tend to freeze up after about 25,000 feet unless you have them in a heated environment....the most I've been able to get out of them was about 60 minutes worth. So I went in search of a better camcorder and found the Flip Ultra on sale for $129. It has 4 Gb of internal memory and claimed 120 minutes of record time....although there is no room for expansion, the plus is that it runs on 2 AA batteries.

It worked flawlessly in a tough environment (pointing up at the balloon with the lens explosed to the elements and no other heat sources)....recording the entire 120 minutes with life to spare on the 2 AA lithium batteries....the quality of the video is amazing and the stereo sounds makes it feel like you are going along for the ride...even with the YouTube compression I think you'll see the video and audio quality of this camera. I plan to fly a couple of these at GPSL this July.

The payload you see above the camera are the Eggsperiments with Peeponauts inside (and an earthworm and roly poly bugs - they didn't survive)...also two small snack-sized potato chip bags are on either side of it....they did not pop but puffed out like pillows...the potato chip bags both flew off on the descent at about 45,000 feet.

http://www.spaceportindiana.com (http://www.spaceportindiana.com)

YouTube of the burst at nearly 95,000 feet:

http://www.youtube.com/watch?v=YsQb-oWq6d4
(http://www.youtube.com/watch?v=YsQb-oWq6d4)

- Bill WB8ELK

http://www.wb8elk.com (http://www.wb8elk.com)

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(http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004)

5433. Re: Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 18:12:49 UTC
From: w0jrt
Topic: 5428 Message: 5433

144.39, while usable, is heavily congested in the KC area and would not be recommended for primary tracking. The balloon groups in the KC area often use 144.99 since it's already I-gated and in fact it is the nationally recommended alternate APRS frequency. Plus, it's in the packet sub-band so there are no frequency / use contention issues.

I didn't hear of any complaints at GPSL last year, but in the past there have been complaints about balloon flights transmitting packets on 144.34 since Wichita, KC, and areas east have a good population of ATV users who use that for a talkback frequency.

For those who wish to use 70cm, 446.175 is the coordinated 70cm frequency for APRS in both Kansas and Missouri. There are at least three full-time I-gates already on that frequency.

-Jerome, W0JRT

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> Yes!!
>
> I need to ask about frequencies in the KC area, since we should be headed
> generally in that direction.
>
> It seems that the launches I've done so far from KU, that 144.390 was open.
> Keith, and anyone else familar with the KC area, is that true? I'm stuck on
> 144.390 for some of my trakers. Is that the case for others?
>
> I'm going to recommend 144.390 be the standard and that we time slot. Does
> anyone else plan to use something different like 144.36?
>
> Let me know what frequency you'd like to use and a time slot. I'll add that
> to a new page and email the result back to the list for deconfliction.
>
>
> Paul
> ---------- Forwarded message ----------
> From: Mark Conner <mconner1@...>
> Date: Mon, Jun 15, 2009 at 9:36 AM
> Subject: Frequency coordination for GPSL
> To: Paul Verhage KD4STH <nearsys@...>
>
>
> Paul,
>
> It's probably about time to gather up frequency requests so we don't have a
> bunch of last-minute shuffling to do.
>
> - Mark

>
>
>
> --
> Onwards and Upwards,
> Paul
>

5434. Re: [GPSL] Re: Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 18:57:23 UTC
From: Harry M
Topic: 5428 Message: 5434

I won't get into a debate on the 144.340 issue and will only state my opinion once. The ARRL handbook lists 144.300-144.500 as the OSCAR subband. So a balloon being a LE satellite, it is (in my opinion) justified using those frequencies. End of discussion!

> I didn't hear of any complaints at GPSL last year, but in the past there
> have been complaints about balloon flights transmitting packets on 144.34
> since Wichita, KC, and areas east have a good population of ATV users who
> use that for a talkback frequency.

5435. Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-15 22:25:32 UTC
From: Mark Garrett
Topic: 5435 Message: 5435

This was sent to me by a friend. Watch the wrap.

Mark Garrett, KA9SZX

Image being hit by a meteorite.

http://news.sky.com/skynews/Home/World-News/Boy-Hit-On-Arm-By-White-Hot-Meteorite-From-Outer-Space-Travelling-At-30000mph/Article/200906215302251?lpos=World_News_First_Strange_News__Article_Teaser_Region__0&lid=ARTICLE_15302251_Boy_Hit_On_Arm_By_White-Hot

5436. Re: [GPSL] Re: Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 00:03:31 UTC
From: wb8elk@aol.com
Topic: 5428 Message: 5436

I don't think there will be a problem using 144.34 for such a short duration....I also am thinking of using 144.34 for my multi-mode tracker, but since it's frequency agile, I can put it anywhere in the 2m band (or I could put it on HF)....I'll have it transmitting about 10 seconds worth of DominoEX data at the top of the minute.

I also would like to fly 144.39 at once a minute rate....we'll have to look at time slotting assignments on that frequency....keep in mind that although it may be congested in KC on APRS....we'll be hitting digipeaters 400 miles in all directions so that shouldn't be a problem I would think.

- Bill WB8ELK

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(http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004)

5437. Re: [GPSL] Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 01:40:09 UTC
From: L. Paul Verhage
Topic: 5435 Message: 5437

I have a couple of arguments with the report. A meteorite slows as it enters the atmosphere, so it won't hit you at 30,000 mph (unless it's too massive for the atmosphere to slow down and in which case the kid and town would not be existence anymore).

Meteors are also cool when they land (unless again they are too massive). They've cold-soaked for billions of years and a short passage through the atmosphere tends to only heat the outside. Besides, the meteor has to pass through very cold atmosphere on its way to the ground. It's claimed freshly landed meteorites are often covered in frost.

Chances are you'll never see the meteor that strikes you, it would have slowed down some 60-80 miles above you.
Perhaps the kid was hit, but not like the article is inndicating.

Paul
On Mon, Jun 15, 2009 at 5:25 PM, Mark Garrett <ka9szx@...> wrote:

>
> This was sent to me by a friend. Watch the wrap.
>
> Mark Garrett, KA9SZX
>
>
> Image being hit by a meteorite.
>
>
> http://news.sky.com/skynews/Home/World-News/Boy-Hit-On-Arm-By-White-Hot-Meteorite-From-Outer-Space-Travelling-At-30000mph/Article/200906215302251?lpos=World_News_First_Strange_News__Article_Teaser_Region__0&lid=ARTICLE_15302251_Boy_Hit_On_Arm_By_White-Hot
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>
> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

5438. Friday Dinner

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 01:53:42 UTC
From: L. Paul Verhage
Topic: 2451 Message: 5438

**I checked with three restuarants today and only one commited to any kind of reservations (I need to call them an hour in advance).

Dinner on Friday is at Rib Crib, across the street and the south of the hotel.

Also, we have a donation from Byonics. (so another sponsor).

--
Onwards and Upwards,
Paul

5439. RE: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 03:04:06 UTC
From: Nick Hanks
Topic: 5428 Message: 5439

Hi Paul,

I thought the questionnaire the folks used last year for frequency coordination was quite good so here□s our input in that format.

EOSS requests the following frequencies for use during the 2009 GPSL flight.

1) Primary tracking freq requested: 144.34 MHZ

a) Do you have freq agile equip? Yes (Can change to freq to accommodate GPSL ground I-gates or 144.39 MHz to use Kansas City/Lawrence/Topeka area APRS digipeaters). Can also be time slotted. We□d prefer the :00 slot.

b) Call sign & SSID: AEØSS-11

2) Alt tracking freq requested: 147.555 MHz Down, 445.975 MHz Up (Crossband voice repeater and an APRS beacon in one package). We don□t expect this freq to be I-gated

a) Do you have freq agile equip? No

b) Call sign & SSID: W0WYX

3) Other mode freq requested: 426.25 MHz Down

a) Mode: ATV

b) Do you have freq agile equip? No

c) Call sign: AE0SS

4) Other mode freq requested 2: CW Beacon 145.600 MHz

a) Mode: CW (Sends □DE AE0SS□and then tone) once every minute for 30 sec.

b) Do you have freq agile equip? Yes

c) Call sign: AE0SS

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, June 15, 2009 09:26

To: gpsl@yahoogroups.com
Subject: [GPSL] Fwd: Frequency coordination for GPSL

Yes!!

I need to ask about frequencies in the KC area, since we should be headed generally in that direction.

It seems that the launches I've done so far from KU, that 144.390 was open. Keith, and anyone else familar with the KC area, is that true? I'm stuck on 144.390 for some of my trakers. Is that the case for others?

I'm going to recommend 144.390 be the standard and that we time slot. Does anyone else plan to use something different like 144.36?

Let me know what frequency you'd like to use and a time slot. I'll add that to a new page and email the result back to the list for deconfliction.

Paul

---------- Forwarded message ----------
From: Mark Conner <mconner1@gmail. <mailto:mconner1@...> com>
Date: Mon, Jun 15, 2009 at 9:36 AM
Subject: Frequency coordination for GPSL
To: Paul Verhage KD4STH <nearsys@gmail. <mailto:nearsys@...> com>

Paul,

It's probably about time to gather up frequency requests so we don't have a bunch of last-minute shuffling to do.

- Mark

--
Onwards and Upwards,
Paul

5440. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 13:43:29 UTC
From: L. Paul Verhage
Topic: 5428 Message: 5440

```
>
> NearSys will request the following frequency for 2009 GPSL.
>
> 1) Primary tracking freq requested: 144.39 MHZ
>
a) Do you have freq agile equip? No
b) Call sign & SSID: KD4STH-8 and KD4STH-9

>
> --
> Onwards and Upwards,
> Paul
>
```

5441. Taylor University CCLI balloon workshop photo's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 18:31:12 UTC
From: Jeff Dailey
Topic: 5441 Message: 5441

You can check out the photo's from the June CCLI balloon workshop at:
http://iyanebraska.org/Balloon_Workshop.html#95

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5442. Re: [GPSL] Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 18:52:26 UTC
From: Mark Garrett
Topic: 5435 Message: 5442

Paul:

I would agree and even at that speed I am surprised that it did not destroy the teen's hand. I would have liked to have seen more on his medical condition after this incident. It is an interesting article that makes you think, what if.

Mark Garrett, KA9SZX

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Monday, June 15, 2009 8:40:09 PM
Subject: Re: [GPSL] Meteorite strike

I have a couple of arguments with the report. A meteorite slows as it enters the atmosphere, so it won't hit you at 30,000 mph (unless it's too massive for the atmosphere to slow down and in which case the kid and town would not be existence anymore).

Meteors are also cool when they land (unless again they are too massive). They've cold-soaked for billions of years and a short passage through the atmosphere tends to only heat the outside. Besides, the meteor has to pass through very cold atmosphere on its way to the ground. It's claimed freshly landed meteorites are often covered in frost.

Chances are you'll never see the meteor that strikes you, it would have slowed down some 60-80 miles above you.

Perhaps the kid was hit, but not like the article is inndicating.

Paul

On Mon, Jun 15, 2009 at 5:25 PM, Mark Garrett <ka9szx@yahoo. com> wrote:

This was sent to me by a friend. Watch the wrap.

Mark Garrett, KA9SZX

Image being hit by a meteorite.

http://news. sky.com/skynews/ Home/World- News/Boy- Hit-On-Arm- By-White- Hot-Meteorite-From-Outer- Space-Travelling -At-30000mph/ Article/20090621 5302251?lpos= World_News_ First_Strange_ News__Article_ Teaser_Region_ _0&lid=ARTICLE_ 15302251_ Boy_Hit_On_ Arm_By_White- Hot

---------- --------- --------- ------

Yahoo! Groups Links

--
Onwards and Upwards,

Paul

5443. Re: [GPSL] Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 19:19:41 UTC
From: Mark Conner
Topic: 5435 Message: 5443

I would guess that a more accurate term would be "grazed" rather than "bounced off" his hand. The sound delay he perceived may have been accurate - I'm guessing it would sound something like a lightning strike that happens within a few tens of feet - almost like a rifle shot with echoes off surrounding objects. There is no way his hand could have deflected such an object far off its trajectory and still bury itself in asphalt without causing significant damage.

An extreme amount of luck was involved as had it struck him more substantially it would have caused much more damage.

73 de Mark N9XTN

On Tue, Jun 16, 2009 at 13:52, Mark Garrett <ka9szx@...> wrote:

>
> Paul:
>
> I would agree and even at that speed I am surprised that it did not destroy
> the teen's hand. I would have liked to have seen more on his medical
> condition after this incident. It is an interesting article that makes you
> think, what if.
>
> Mark Garrett, KA9SZX
>
>
>
>
>
> _____
> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Monday, June 15, 2009 8:40:09 PM
> Subject: Re: [GPSL] Meteorite strike
>
>
>
>
>
>
> I have a couple of arguments with the report. A meteorite slows as it
> enters the atmosphere, so it won't hit you at 30,000 mph (unless it's too
> massive for the atmosphere to slow down and in which case the kid and town
> would not be existence anymore).
>
> Meteors are also cool when they land (unless again they are too massive).
> They've cold-soaked for billions of years and a short passage through the
> atmosphere tends to only heat the outside. Besides, the meteor has to pass

> through very cold atmosphere on its way to the ground. It's claimed freshly
> landed meteorites are often covered in frost.
>
> Chances are you'll never see the meteor that strikes you, it would have
> slowed down some 60-80 miles above you.
>
> Perhaps the kid was hit, but not like the article is inndicating.
>
> Paul
>
> On Mon, Jun 15, 2009 at 5:25 PM, Mark Garrett <ka9szx@yahoo. com> wrote:
>
>
> This was sent to me by a friend. Watch the wrap.
>
> Mark Garrett, KA9SZX
>
>
> Image being hit by a meteorite.
>
> http://news. sky.com/skynews/ Home/World- News/Boy- Hit-On-Arm- By-White-
> Hot-Meteorite- From-Outer- Space-Travelling -At-30000mph/ Article/20090621
> 5302251?lpos= World_News_ First_Strange_ News__Article_ Teaser_Region_
> _0&lid=ARTICLE_ 15302251_ Boy_Hit_On_ Arm_By_White- Hot
>
>
>
>
>

5444. Glider Recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 22:02:27 UTC
From: L. Paul Verhage
Topic: 5444 Message: 5444

The 18" glider launched on my Minnesota was recovered. I've got to work out the details yet, but it was recovered in Balsam Lake, WS after being released at 45,700 feet.

--
Onwards and Upwards,
Paul

5445. Rib Crib

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 22:09:29 UTC
From: L. Paul Verhage
Topic: 5445 Message: 5445

Dinner Friday is at the Rib Crib (across the street from the motel) for anyone who wants to attend. I'll need to send in numbers by 5 so we can be there at 6.

They have salads, sandwiches, ribs, and some seafood.

Prices range from $7 to $16.

--
Onwards and Upwards,
Paul

5446. Re: [GPSL] Glider Recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 22:04:41 UTC
From: Robert Rochte
Topic: 5444 Message: 5446

I'd love to hear more about this... Do you have any further write-up on the glider and how it was released?
Thanks!

73,
Robert KC8UCH

On Tue, Jun 16, 2009 at 6:02 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> The 18" glider launched on my Minnesota was recovered. I've got to work
> out the details yet, but it was recovered in Balsam Lake, WS after being
> released at 45,700 feet.
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-378-0525

5447. Re: [GPSL] Glider Recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-16 22:40:49 UTC
From: Joe
Topic: 5444 Message: 5447

So how far did it go?

L. Paul Verhage wrote:

>
>
> The 18" glider launched on my Minnesota was recovered. I've got to
> work out the details yet, but it was recovered in Balsam Lake, WS
> after being released at 45,700 feet.
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>--
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.374 / Virus Database: 270.12.73/2180 - Release Date: 06/16/09 07:41:00
>
>
>

5448. Re: [GPSL] Glider Recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-17 00:57:38 UTC
From: L. Paul Verhage
Topic: 5444 Message: 5448

The glider release is documented in my near space book at Parallax.com.

Essentially, a servo pulled back a wire from a hook and let the cord tied to the glider's tail drop out.

The release occured at 45,700 feet, 45 deg 25.43" N and 92 deg, 27.01" W. I don't have the landing site yet, but taking the boundary between the town and the lake as the landing site, I get that it flew 1.8 miles to the NNW. At release the balloon was ascending at 889 fpm and traveling at 47 MPH at a heading of 108 degrees.

I find it odd the glider flew against the wind to its landing site. Perhaps this will be resolved when I get the coordinates of the landing site.

The mission report (including video of the glider release) is online at http://nearsys.com/arhab/flightdata/2009/c/index.htm

Paul

On Tue, Jun 16, 2009 at 5:40 PM, Joe <nss@...> wrote:

>
>
> So how far did it go?
>
> L. Paul Verhage wrote:
>
> The 18" glider launched on my Minnesota was recovered. I've got to work
> out the details yet, but it was recovered in Balsam Lake, WS after being
> released at 45,700 feet.
>
> --
> Onwards and Upwards,
> Paul
>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.374 / Virus Database: 270.12.73/2180 - Release Date: 06/16/09 07:41:00
>
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>

--
Onwards and Upwards,
Paul

5449. Re: [GPSL] Glider Recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-17 14:20:46 UTC
From: BASE
Topic: 5444 Message: 5449

I would suspect that the glider did not significantly interact with the air until it reached a much lower altitude than the release point.

Looking at the atmospheric sounding data from the radiosondes launched from MPX (44.85N and 93.56W)at 12 UTC on 6 June and 0 UTC on 7 June, may help solve the flight path. The surface winds were 5 knots (5.75 mi/hr) or less. However, the winds between 500 and 1500 feet above ground level were between 12 and 25 mi/hr out of the east at 12 UTC 6 June and 25 to 40 mi/hr at 0 UTC 7 June.

Landing to the northwest is also consistent with the flight path taken by the balloon at launch according the the aprs.fi/KD4STH-8. I imagine the flight path had a signficant hook during its descent.

Howard
--- On Tue, 6/16/09, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Glider Recovery
To: GPSL@yahoogroups.com
Date: Tuesday, June 16, 2009, 8:57 PM

The glider release is documented in my near space book at Parallax.com.

Essentially, a servo pulled back a wire from a hook and let the cord tied to the glider's tail drop out.

The release occured at 45,700 feet, 45 deg 25.43" N and 92 deg, 27.01" W. I don't have the landing site yet, but taking the boundary between the town and the lake as the landing site, I get that it flew 1.8 miles to the NNW. At release the balloon was ascending at 889 fpm and traveling at 47 MPH at a heading of 108 degrees.

I find it odd the glider flew against the wind to its landing site. Perhaps this will be resolved when I get the coordinates of the landing site.

The mission report (including video of the glider release) is online at http://nearsys.com/arhab/ flightdata/ 2009/c/index. htm

Paul

On Tue, Jun 16, 2009 at 5:40 PM, Joe <nss@...> wrote:

So how far did it go?

L. Paul Verhage wrote:

The 18" glider launched on my Minnesota was recovered. I've got to work out the details yet, but it was recovered in Balsam Lake, WS after being released at 45,700 feet.

--

Onwards and Upwards,
Paul

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.374 / Virus Database: 270.12.73/2180 - Release Date: 06/16/09 07:41:00

--
Onwards and Upwards,
Paul

5450. Field Day Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-17 18:49:54 UTC
From: Jeff Dailey
Topic: 5450 Message: 5450

Taylor University will be launching a balloon at the Fort Wayne Amateur Radio Club Field Day at IPFW in Fort Wayne Indiana.

We will be floating at 70,000 Feet if jetstream speed is low.

Flight #: 187
Flight ID: FWARC09
Date: 6-27-2009
Time: 2:00PM EST

APRS: 144.390 KB9ZNZ-1

Crossband repeater: Uplink 144.360 Downlink: 446.025

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

5451. Another high-altitude manned balloon flight this weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 02:30:43 UTC
From: Mark Conner
Topic: 5451 Message: 5451

Rich Jaworski is planning another attempt to fly a hot-air balloon to 33,000 feet this weekend. Most likely date for the flight is Saturday, with a launch time of about 5:30am CDT (1030 UTC). Launch site is TBD, but current planning is for a site near Blair NE.

Flight time will be a bit under two hours, and the latest forecast track is for a flight to the southeast about 20 miles (landing N/NE of Council Bluffs).

APRS will be on board with callsign N9XTN-11. I'm not sure if I'll use 144.36 or 144.39 MHz for this flight. IGate support will be available on either frequency, so interested parties can follow along using http://map.findu.com/n9xtn-11 if they're not in RF range.

Rich's last flight topped out at 26,000 ft due to a problem keeping the burners lit in the thinner air. Hopefully he has solved the issue this time.

73 de Mark N9XTN

5452. It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 19:37:29 UTC
From: L. Paul Verhage
Topic: 5166 Message: 5452

I have a new gas supplier for GPSL, the same folks that supply gas for my school.

Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.

They will accept uncracked tanks of gas for a full refund.

Starting in July, send me a check for your gas. I'll pay Linweld.

Their store is open on Saturday from 8-11 AM, so we should plan to gas up, launch, and drive tot heir place to drop off ther tank. I told them there would be a bunch of cars Saturday morning in a hurry to dump their tanks. Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If the flights go east, they will be on the way to recovery (more of less).

Now I just need to arrange to store the tanks in welding or put up hooks for the tanks in my classroom.

--
Onwards and Upwards,
Paul

5453. Hydrogen gas safety

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 20:16:52 UTC
From: Mark Conner
Topic: 5453 Message: 5453

One of the better documents I've found so far:

http://www.depweb.state.pa.us/deepminesafety/lib/deepminesafety/training/hydrogengassafety.pdf
(copy of a Los Alamos National Lab safety PDF)

Note this document (and others) refer to the "self-ignition" issue with hydrogen cylinders (Google for 'hydrogen cylinder self-ignition' for more). This occurs when one cracks a hydrogen cylinder into free air, usually done to clear dust or debris from the fittings. While OK for other gases, it can lead to self-ignition with hydrogen. This appears to not be an issue when a regulator is attached before opening the cylinder valve. It may also be mitigated with any sort of device attached (Mike's point from earlier that if a flame is generated, it proceeds quickly down the tube and self-extinguishes as the oxygen is consumed).

I admit to being somewhat dubious about this before, but no longer.

73 de Mark N9XTN

5454. RE: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 20:43:25 UTC
From: Nick Hanks
Topic: 5166 Message: 5454

Hi Paul,

Would this be possible? Pick the tanks up Sat. morning at the school, fill and launch the balloons, recovery the balloons, and then drop the tanks off at the school to be picked up Monday morning by Linweld. Maybe we could drop the tanks off when we come to the "How Did It Go" session.

My concern is that some folks may end-up out of the chase because they had to go to Linweld after launch and the drop-off time is long and/or the balloon trajectories do not go close enough to Linweld for the folks to get in on the chase. Our experience at past GPSLs is that the chase teams have time for only a very quick pit-stop (e.g., gas, coffee, bathroom) while driving towards the predicated landing sites after launch.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, June 18, 2009 13:37
To: gpsl@yahoogroups.com
Subject: [GPSL] It's a Gas

I have a new gas supplier for GPSL, the same folks that supply gas for my school.

Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.

They will accept uncracked tanks of gas for a full refund.

Starting in July, send me a check for your gas. I'll pay Linweld.

Their store is open on Saturday from 8-11 AM, so we should plan to gas up, launch, and drive tot heir place to drop off ther tank. I told them there would be a bunch of cars Saturday morning in a hurry to dump their tanks. Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If the flights go east, they will be on the way to recovery (more of less).

Now I just need to arrange to store the tanks in welding or put up hooks for the tanks in my classroom.

--
Onwards and Upwards,
Paul

5455. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 21:43:16 UTC
From: Mark Conner
Topic: 5166 Message: 5455

I would also advocate not trying to return the tanks during the chase - it's doubtful Linweld can process all of us in a timely fashion. For teams with multiple chase vehicles it may be possible to detail one to go to Linweld, but for NSTAR we'll only have the one.

For GPSL 2005, Linweld gave us free delivery/pickup since we ordered such a large quantity. I stored the cylinders (18) in my garage - they delivered Thursday or Friday and picked them up Monday. I had to arrange transport to/from the launch site but that was not a major issue. I had 7 or 9 on a trailer and the rest on two pickups. Since Taylor or DePauw (can't remember which) had their base station at the launch site, we left the tanks there during the chase and took them back home later that day.

73 de Mark N9XTN
On Thu, Jun 18, 2009 at 15:43, Nick Hanks <ndhanks@...> wrote:

>
>
> Hi Paul,
>
> Would this be possible? Pick the tanks up Sat. morning at the school,
> fill and launch the balloons, recovery the balloons, and then drop the tanks
> off at the school to be picked up Monday morning by Linweld. Maybe we could
> drop the tanks off when we come to the “How Did It Go” session.
>
> My concern is that some folks may end-up out of the chase because they
> had to go to Linweld after launch and the drop-off time is long and/or the
> balloon trajectories do not go close enough to Linweld for the folks to get
> in on the chase. Our experience at past GPSLs is that the chase teams have
> time for only a very quick pit-stop (e.g., gas, coffee, bathroom) while
> driving towards the predicated landing sites after launch.
>
>
>
> Nick
>
> EOSS GPSL Coordinator
>
>
>

5456. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-18 22:57:12 UTC
From: Joe
Topic: 5166 Message: 5456

i forgot, how many cuft ate in the H2 "T" tank?

L. Paul Verhage wrote:

>
>
> I have a new gas supplier for GPSL, the same folks that supply gas for
> my school.
>
> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>
> They will accept uncracked tanks of gas for a full refund.
>
> Starting in July, send me a check for your gas. I'll pay Linweld.
>
> Their store is open on Saturday from 8-11 AM, so we should plan to gas
> up, launch, and drive tot heir place to drop off ther tank. I told
> them there would be a bunch of cars Saturday morning in a hurry to
> dump their tanks. Linweld is located in the northeast corner of
> Topeka, 100 Madisonc St. If the flights go east, they will be on the
> way to recovery (more of less).
>
> Now I just need to arrange to store the tanks in welding or put up
> hooks for the tanks in my classroom.
>
> --
> Onwards and Upwards,
> Paul
>
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.374 / Virus Database: 270.12.78/2185 - Release Date: 06/18/09 05:53:00
>
>
>

5457. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 01:06:07 UTC
From: L. Paul Verhage
Topic: 5166 Message: 5457

I mentioned dropping off the tanks as an option. I agree that if there is going to be a time crunch, the tanks will come back to the school after recovery. The school alram will be turned off and I can unlock my classroom.

A T tank is 192 cu ft.

Paul

On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...> wrote:

>
>
> i forgot, how many cuft ate in the H2 "T" tank?
>
> L. Paul Verhage wrote:
>
> I have a new gas supplier for GPSL, the same folks that supply gas for
> my school.
>
> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>
> They will accept uncracked tanks of gas for a full refund.
>
> Starting in July, send me a check for your gas. I'll pay Linweld.
>
> Their store is open on Saturday from 8-11 AM, so we should plan to gas up,
> launch, and drive tot heir place to drop off ther tank. I told them there
> would be a bunch of cars Saturday morning in a hurry to dump their tanks.
> Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If
> the flights go east, they will be on the way to recovery (more of less).
>
> Now I just need to arrange to store the tanks in welding or put up hooks
> for the tanks in my classroom.
>
> --
> Onwards and Upwards,
> Paul
>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.374 / Virus Database: 270.12.78/2185 - Release Date: 06/18/09 05:53:00
>

>
>
>
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>

--
Onwards and Upwards,
Paul

5458. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 01:35:20 UTC
From: Pete Lilja
Topic: 5166 Message: 5458

I pay 3x that for hydrogen at the only local dealer that'll sell it to me. Sheesh.

Pete
KCØGPB

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Thursday, June 18, 2009 8:06 PM
Subject: Re: [GPSL] It's a Gas

I mentioned dropping off the tanks as an option. I agree that if there is going to be a time crunch, the tanks will come back to the school after recovery. The school alram will be turned off and I can unlock my classroom.

A T tank is 192 cu ft.

Paul

On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...> wrote:

i forgot, how many cuft ate in the H2 "T" tank?

L. Paul Verhage wrote:
I have a new gas supplier for GPSL, the same folks that supply gas for my school.

Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.

They will accept uncracked tanks of gas for a full refund.

Starting in July, send me a check for your gas. I'll pay Linweld.

Their store is open on Saturday from 8-11 AM, so we should plan to gas up, launch, and drive tot heir place to drop off ther tank. I told them there would be a bunch of cars Saturday morning in a hurry to dump their tanks. Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If the flights go east, they will be on the way to recovery (more of less).

Now I just need to arrange to store the tanks in welding or put up hooks for the tanks in my classroom.

--
Onwards and Upwards,
Paul

No virus found in this incoming message.
Checked by AVG - www.avg.com

Version: 8.5.374 / Virus Database: 270.12.78/2185 - Release Date: 06/18/09 05:53:00

--
Onwards and Upwards,
Paul

5459. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 02:00:37 UTC
From: Joe
Topic: 5166 Message: 5459

and that's still double what I pay,

Pete Lilja wrote:

>
>
> I pay 3x that for hydrogen at the only local dealer that'll sell it to
> me. Sheesh.
>
> Pete
> KC?GPB
>
>
> ----- Original Message -----
> From: L. Paul Verhage <mailto:nearsys@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Thursday, June 18, 2009 8:06 PM
> Subject: Re: [GPSL] It's a Gas
>
> I mentioned dropping off the tanks as an option. I agree that if
> there is going to be a time crunch, the tanks will come back to
> the school after recovery. The school alram will be turned off
> and I can unlock my classroom.
>
> A T tank is 192 cu ft.
>
> Paul
>
> On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
>
>
>
> i forgot, how many cuft ate in the H2 "T" tank?
>
> L. Paul Verhage wrote:
>
>> I have a new gas supplier for GPSL, the same folks that
>> supply gas for my school.
>>
>> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>>
>> They will accept uncracked tanks of gas for a full refund.
>>
>> Starting in July, send me a check for your gas. I'll pay

>> Linweld.
>>
>> Their store is open on Saturday from 8-11 AM, so we should
>> plan to gas up, launch, and drive tot heir place to drop off
>> ther tank. I told them there would be a bunch of cars
>> Saturday morning in a hurry to dump their tanks. Linweld is
>> located in the northeast corner of Topeka, 100 Madisonc
>> St. If the flights go east, they will be on the way to
>> recovery (more of less).
>>
>> Now I just need to arrange to store the tanks in welding or
>> put up hooks for the tanks in my classroom.
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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>>
>>No virus found in this incoming message.
>>Checked by AVG - www.avg.com <http://www.avg.com/>
>>Version: 8.5.374 / Virus Database: 270.12.78/2185 - Release Date: 06/18/09 05:53:00
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> --
> Onwards and Upwards,
> Paul
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.374 / Virus Database: 270.12.79/2186 - Release Date: 06/18/09 17:59:00
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5460. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 02:47:54 UTC
From: Pete Lilja
Topic: 5166 Message: 5460

How can there be such a discrepancy in prices for the most abundant element?

The welding supply house where I go has a whole dock full of it as one customer of theirs uses 8 -10 T tanks a week plus other users. I don't get it.

Pete

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Sent: Thursday, June 18, 2009 9:00 PM
Subject: Re: [GPSL] It's a Gas

and that's still double what I pay,

Pete Lilja wrote:

I pay 3x that for hydrogen at the only local dealer that'll sell it to me. Sheesh.

Pete
KCØGPB

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Thursday, June 18, 2009 8:06 PM
Subject: Re: [GPSL] It's a Gas

I mentioned dropping off the tanks as an option. I agree that if there is going to be a time crunch, the tanks will come back to the school after recovery. The school alram will be turned off and I can unlock my classroom.

A T tank is 192 cu ft.

Paul

On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...> wrote:

i forgot, how many cuft ate in the H2 "T" tank?

L. Paul Verhage wrote:
I have a new gas supplier for GPSL, the same folks that supply gas for my school.

Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.

They will accept uncracked tanks of gas for a full refund.

Starting in July, send me a check for your gas. I'll pay Linweld.

Their store is open on Saturday from 8-11 AM, so we should plan to gas up, launch, and drive tot heir place to drop off ther tank. I told them there would be a bunch of cars Saturday morning in a hurry to dump their tanks. Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If the flights go east, they will be on the way to recovery (more of less).

Now I just need to arrange to store the tanks in welding or put up hooks for the tanks in my classroom.

--
Onwards and Upwards,
Paul

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.374 / Virus Database: 270.12.78/2185 - Release Date: 06/18/09 05:53:00

--
Onwards and Upwards,
Paul

No virus found in this incoming message.
Checked by AVG - www.avg.com
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5461. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 02:54:12 UTC
From: Joe
Topic: 5166 Message: 5461

and i'm the other way around. I get mine locally and he has to sopecial order it for me. they don't stock it because no one here uses it. go figure, last time a tank was 14.59

Pete Lilja wrote:

>
>
> How can there be such a discrepancy in prices for the most abundant
> element?
>
> The welding supply house where I go has a whole dock full of it as one
> customer of theirs uses 8 -10 T tanks a week plus other users. I
> don't get it.
>
> Pete
>
>
> ----- Original Message -----
> From: Joe <mailto:nss@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Thursday, June 18, 2009 9:00 PM
> Subject: Re: [GPSL] It's a Gas
>
> and that's still double what I pay,
>
> Pete Lilja wrote:
>
>> I pay 3x that for hydrogen at the only local dealer that'll sell
>> it to me. Sheesh.
>>
>> Pete
>> KC?GPB
>>
>>
>> ----- Original Message -----
>> From: L. Paul Verhage <mailto:nearsys@...>
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Sent: Thursday, June 18, 2009 8:06 PM
>> Subject: Re: [GPSL] It's a Gas
>>
>> I mentioned dropping off the tanks as an option. I agree
>> that if there is going to be a time crunch, the tanks will
>> come back to the school after recovery. The school alram
>> will be turned off and I can unlock my classroom.

>>
>> A T tank is 192 cu ft.
>>
>> Paul
>>
>> On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...
>> <mailto:nss@...>> wrote:
>>
>>
>>
>> i forgot, how many cuft ate in the H2 "T" tank?
>>
>> L. Paul Verhage wrote:
>>
>>> I have a new gas supplier for GPSL, the same folks that
>>> supply gas for my school.
>>>
>>> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>>>
>>> They will accept uncracked tanks of gas for a full refund.
>>>
>>> Starting in July, send me a check for your gas. I'll
>>> pay Linweld.
>>>
>>> Their store is open on Saturday from 8-11 AM, so we
>>> should plan to gas up, launch, and drive tot heir place
>>> to drop off ther tank. I told them there would be a
>>> bunch of cars Saturday morning in a hurry to dump their
>>> tanks. Linweld is located in the northeast corner of
>>> Topeka, 100 Madisonc St. If the flights go east, they
>>> will be on the way to recovery (more of less).
>>>
>>> Now I just need to arrange to store the tanks in welding
>>> or put up hooks for the tanks in my classroom.
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
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>>>---
>>>
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>> Onwards and Upwards,
>> Paul
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5462. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 13:58:26 UTC
From: L. Paul Verhage
Topic: 5166 Message: 5462

I jusrt got off the phone with Linweld.

The T-tanks we ordered have 330 cu ft of gas.

Any tank we say we didn't open, they will gauge to verify and give us a refund.

Paul

On Thu, Jun 18, 2009 at 11:22 PM, Marty Griffin <mgriffin@...>wrote:

> Hi Paul,
>
> We are looking forward to this adventure. You probably have thought of
> this, but make sure the gas supplier seals the tanks. Sealed tanks can be
> returned for a refund without any dispute.
>
> - Marty Griffin, EOSS
>
>
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Thursday, June 18, 2009 7:06 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] It's a Gas
>
>
>
>
>
>
>
> I mentioned dropping off the tanks as an option. I agree that if there
> is going to be a time crunch, the tanks will come back to the school after
> recovery. The school alram will be turned off and I can unlock my
> classroom.
>
>
>
> A T tank is 192 cu ft.
>
>
>
> Paul
>

> On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...> wrote:
>
>
>
> i forgot, how many cuft ate in the H2 "T" tank?
>
> L. Paul Verhage wrote:
>
> I have a new gas supplier for GPSL, the same folks that supply gas for my
> school.
>
>
>
> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>
>
>
> They will accept uncracked tanks of gas for a full refund.
>
>
>
> Starting in July, send me a check for your gas. I'll pay Linweld.
>
>
>
> Their store is open on Saturday from 8-11 AM, so we should plan to gas up,
> launch, and drive tot heir place to drop off ther tank. I told them there
> would be a bunch of cars Saturday morning in a hurry to dump their tanks.
> Linweld is located in the northeast corner of Topeka, 100 Madisonc St. If
> the flights go east, they will be on the way to recovery (more of less).
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>
> Now I just need to arrange to store the tanks in welding or put up hooks
> for the tanks in my classroom.
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>
> --
> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

5463. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 14:08:41 UTC
From: Joe
Topic: 5166 Message: 5463

there ya go! Now ya got a good price

L. Paul Verhage wrote:

>
>
> I jusrt got off the phone with Linweld.
>
> The T-tanks we ordered have 330 cu ft of gas.
>
> Any tank we say we didn't open, they will gauge to verify and give us
> a refund.
>
> Paul
>
> On Thu, Jun 18, 2009 at 11:22 PM, Marty Griffin
> <mgriffin@... <mailto:mgriffin@...>> wrote:
>
> Hi Paul,
>
> We are looking forward to this adventure. You probably have
> thought of this, but make sure the gas supplier seals the tanks.
> Sealed tanks can be returned for a refund without any dispute.
>
> - Marty Griffin, EOSS
>
>
>
> From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] On
> Behalf Of L. Paul Verhage
> Sent: Thursday, June 18, 2009 7:06 PM
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>
> Subject: Re: [GPSL] It's a Gas
>
>
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>
>
> I mentioned dropping off the tanks as an option. I agree that if
> there is going to be a time crunch, the tanks will come back to
> the school after recovery. The school alram will be turned off
> and I can unlock my classroom.

>
>
>
> A T tank is 192 cu ft.
>
>
>
> Paul
>
> On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
>
>
> i forgot, how many cuft ate in the H2 "T" tank?
>
> L. Paul Verhage wrote:
>
> I have a new gas supplier for GPSL, the same folks that supply gas
> for my school.
>
>
>
> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>
>
>
> They will accept uncracked tanks of gas for a full refund.
>
>
>
> Starting in July, send me a check for your gas. I'll pay Linweld.
>
>
>
> Their store is open on Saturday from 8-11 AM, so we should plan to
> gas up, launch, and drive tot heir place to drop off ther tank. I
> told them there would be a bunch of cars Saturday morning in a
> hurry to dump their tanks. Linweld is located in the northeast
> corner of Topeka, 100 Madisonc St. If the flights go east, they
> will be on the way to recovery (more of less).
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> Now I just need to arrange to store the tanks in welding or put up
> hooks for the tanks in my classroom.
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> Onwards and Upwards,

> Paul
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>Checked by AVG - www.avg.com
>Version: 8.5.374 / Virus Database: 270.12.80/2187 - Release Date: 06/19/09 06:53:00
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5464. Re: [GPSL] Hydrogen gas safety

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 23:39:42 UTC
From: Mike Manes
Topic: 5453 Message: 5464

Thanks, Mark. That's a great reference.
And my sources for the earlier caveat are Norm Kjome of U Wyo and
Mike Morgan N0MPM, an engineer with Conoco.
73 de Mike W5VSI

Mark Conner wrote:
>
>
> One of the better documents I've found so far:
>
> http://www.depweb.state.pa.us/deepminesafety/lib/deepminesafety/training/hydrogengassafe
ty.pdf
> (copy of a Los Alamos National Lab safety PDF)
>
> Note this document (and others) refer to the "self-ignition" issue with
> hydrogen cylinders (Google for 'hydrogen cylinder self-ignition' for
> more). This occurs when one cracks a hydrogen cylinder into free air,
> usually done to clear dust or debris from the fittings. While OK for
> other gases, it can lead to self-ignition with hydrogen. This appears
> to not be an issue when a regulator is attached before opening the
> cylinder valve. It may also be mitigated with any sort of device
> attached (Mike's point from earlier that if a flame is generated, it
> proceeds quickly down the tube and self-extinguishes as the oxygen is
> consumed).
>
> I admit to being somewhat dubious about this before, but no longer.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5465. Re: [GPSL] It's a Gas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-19 23:57:11 UTC
From: Mike Manes
Topic: 5166 Message: 5465

I thought a T-bottle of He is about 295 cu ft at 2250 psig. The
K-bottle is more like 192 cu ft. Maybe H2 bottles aren't pumped up
to that high a pressure?
73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> I mentioned dropping off the tanks as an option. I agree that if there
> is going to be a time crunch, the tanks will come back to the school
> after recovery. The school alram will be turned off and I can unlock my
> classroom.
>
> A T tank is 192 cu ft.
>
> Paul
>
> On Thu, Jun 18, 2009 at 5:57 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
>
>
>
>
> i forgot, how many cuft ate in the H2 "T" tank?
>
> L. Paul Verhage wrote:
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>> for my school.
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>> Helium is $73.72 a T-tank and H2 is $33.58 a T-tank.
>>
>> They will accept uncracked tanks of gas for a full refund.
>>
>> Starting in July, send me a check for your gas. I'll pay Linweld.
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>> Their store is open on Saturday from 8-11 AM, so we should plan to
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>> Now I just need to arrange to store the tanks in welding or put up
>> hooks for the tanks in my classroom.
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>> --

>> Onwards and Upwards,
>> Paul
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> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5466. Re: [Balloon_Sked] Amazing balloon burst video from the June 12th Spaceport Indiana launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-20 02:17:23 UTC
From: Mike Manes
Topic: 5432 Message: 5466

Boy, you sure can see how those shards are dragging tbe 'chute apex
around! The good folks at Colo Space Grant are doing mech drawings
of the EOSS fast release that gets shut of those shards right at
burst, every time. And there's a chance that they can even CAD/CAM
the parts for a kit. We've used ours on every flight for the past
two years.

BTW, I've corrected the problem with early release during a jerky
launch by balancing the locking arm.

73 de Mike W5VSI

wb8elk@... wrote:
>
>
> I put the Flip Ultra digital camcorder unit on this pointing up at the
> balloon for our Spaceport Camp student flight. We had video cameras
> pointing up, down and at the horizon as well as Canon still cameras. In
> the past, I've used the RCA SmallWonder units but they tend to freeze up
> after about 25,000 feet unless you have them in a heated
> environment....the most I've been able to get out of them was about 60
> minutes worth. So I went in search of a better camcorder and found the
> Flip Ultra on sale for $129. It has 4 Gb of internal memory and claimed
> 120 minutes of record time....although there is no room for expansion,
> the plus is that it runs on 2 AA batteries.
>
> It worked flawlessly in a tough environment (pointing up at the balloon
> with the lens explosed to the elements and no other heat
> sources)....recording the entire 120 minutes with life to spare on the 2
> AA lithium batteries....the quality of the video is amazing and the
> stereo sounds makes it feel like you are going along for the ride...even
> with the YouTube compression I think you'll see the video and audio
> quality of this camera. I plan to fly a couple of these at GPSL this July.
>
> The payload you see above the camera are the Eggsperiments with
> Peeponauts inside (and an earthworm and roly poly bugs - they didn't
> survive)...also two small snack-sized potato chip bags are on either
> side of it....they did not pop but puffed out like pillows...the potato
> chip bags both flew off on the descent at about 45,000 feet.
>
> http://www.spaceportindiana.com
>
>
>

> YouTube of the burst at nearly 95,000 feet:
>
> http://www.youtube.com/watch?v=YsQb-oWq6d4
>
> - Bill WB8ELK
>
> http://www.wb8elk.com
>
>
> ---
> Download the AOL Classifieds Toolbar
> <http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004>
> for local deals at your fingertips.
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5467. Re: [GPSL] Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-20 02:39:42 UTC
From: Mike Manes
Topic: 5435 Message: 5467

I suspect that we've had a meteor hit on a balloon. One was a
3000 gm carrying a normal neck load of about 26 lb that burst
at about 65K' rather than the normal 90K'+. Another was a new
1200 gm Totex that entered a float at 45K'. I've heard of other
instances where a latex got punctured without inducing a full-blown
burst.

At the altitudes we fly at, there's not enough atmosphere above us
to allow even tiny meteors to burn up completely.

Anyone up for a mess of flights during the Persieds shower?

Or not ... l=P?

73 de Mike W5VSI
CTO EOSS

Mark Garrett wrote:
> This was sent to me by a friend. Watch the wrap.
>
> Mark Garrett, KA9SZX
>
>
> Image being hit by a meteorite.
>
> http://news.sky.com/skynews/Home/World-News/Boy-Hit-On-Arm-By-White-Hot-Meteorite-From-Outer-Space-Travelling-At-30000mph/Article/200906215302251?lpos=World_News_First_Strange_News__Article_Teaser_Region__0&lid=ARTICLE_15302251_Boy_Hit_On_Arm_By_White-Hot
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5468. Manned hot-air balloon flight to 33,000' in progress

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-20 11:28:02 UTC
From: Mark Conner
Topic: 5468 Message: 5468

Now over Missouri Valley IA at 30,000 ft still ascending.

http://map.findu.com/n9xtn-11

73 de Mark N9XTN

5469. Re: [GPSL] Meteorite strike

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-20 16:20:51 UTC
From: L. Paul Verhage
Topic: 5435 Message: 5469

Most meteroids are vaporized between 60 and 80 miles altitude. It's because of their incredible speeds that they never make it down to near space altitudes. The typical meteoroid that makes it to our altitude are at terminal velocity, so they're probably tumbling at less than 200 MPH. There are no small meteor craters on Mars because even with its 7 mb atmosphere, there's enough air to stop a lot of meteoroids (By the way, I purchased an 8 mg fragment of Mars meteoroid recently).

Now really big stuff - the kind of stuff that makes large impacts - is too large for the atmosphere to slow down. So they hit the ground with kinetic energy levels beyond our daily experiences. Testing with bullets lead geologists in the 19th century to dismiss the Barriger Crater in Arizona as just a crypto-volcanic (mystery volcano) structure.

Paul "Is that a second sun or a very large meteoroid" Verhage

On Fri, Jun 19, 2009 at 9:39 PM, Mike Manes <mrmanes@...> wrote:

> I suspect that we've had a meteor hit on a balloon. One was a
> 3000 gm carrying a normal neck load of about 26 lb that burst
> at about 65K' rather than the normal 90K'+. Another was a new
> 1200 gm Totex that entered a float at 45K'. I've heard of other
> instances where a latex got punctured without inducing a full-blown
> burst.
>
> At the altitudes we fly at, there's not enough atmosphere above us
> to allow even tiny meteors to burn up completely.
>
> Anyone up for a mess of flights during the Persieds shower?
>
> Or not ... l=P?
>
> 73 de Mike W5VSI
> CTO EOSS
>
> Mark Garrett wrote:
> > This was sent to me by a friend. Watch the wrap.
> >
> > Mark Garrett, KA9SZX
> >
> >
> > Image being hit by a meteorite.
> >
> >
> http://news.sky.com/skynews/Home/World-News/Boy-Hit-On-Arm-By-White-Hot-Meteorite-From-Outer-Space-Travelling-At-30000mph/Article/200906215302251?lpos=World_News_First_Strange_Ne

ws__Article_Teaser_Region__0&lid=ARTICLE_15302251_Boy_Hit_On_Arm_By_White-Hot
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> > Yahoo! Groups Links
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5470. Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-21 04:16:28 UTC
From: L. Paul Verhage
Topic: 5470 Message: 5470

After mulling over the CricketSat idea for a while, I'd like to give something very similiar a try.

The transmitter operates at 434 MHz and costs $4.00 (see http://www.sparkfun.com/commerce/product_info.php?products_id=8946). I'd like to use a PICAXE-08M that costs $3.00 (see http://www.sparkfun.com/commerce/product_info.php?products_id=8308) to send a square wave to the transmitter and then cut the antenna to the 3rd harmonic (144.67 MHz).

The PICAXE will switch the square wave on and off to send the temperature from a LM335 read with its 10-bit ADC.

I'm wondering if we could hear and record data from a 10 mW transmitter on the third harmonic and then fox hunt it if I dropped it from a balloon. Also, would anyone in the Topeka area be interested in helping me test this? This would be a $10 (and therefore if it gets lost, no big deal) near space drop sonde and perhaps a fun fox hunt.

--
Onwards and Upwards,
Paul

5471. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-21 04:31:47 UTC
From: Keith Kaiser
Topic: 5470 Message: 5471

I guess I'm not exactly near Topeka but I'd still like to give it a shot.

On Jun 20, 2009, at 11:16 PM, L. Paul Verhage wrote:

>
>
>
> After mulling over the CricketSat idea for a while, I'd like to give
> something very similiar a try.
>
> The transmitter operates at 434 MHz and costs $4.00 (see
http://www.sparkfun.com/commerce/product_info.php?products_id=8946)
> . I'd like to use a PICAXE-08M that costs $3.00 (see
http://www.sparkfun.com/commerce/product_info.php?products_id=8308)
> to send a square wave to the transmitter and then cut the antenna
> to the 3rd harmonic (144.67 MHz).
>
> The PICAXE will switch the square wave on and off to send the
> temperature from a LM335 read with its 10-bit ADC.
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> I'm wondering if we could hear and record data from a 10 mW
> transmitter on the third harmonic and then fox hunt it if I dropped
> it from a balloon. Also, would anyone in the Topeka area be
> interested in helping me test this? This would be a $10 (and
> therefore if it gets lost, no big deal) near space drop sonde and
> perhaps a fun fox hunt.
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5472. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-21 09:01:45 UTC
From: wb8elk@aol.com
Topic: 5470 Message: 5472

Hi Paul,

I've done several flights with that exact SparkFun 434 MHz transmitter module....it puts out about 10 milliwatts ... I attach a dipole to it directly to the module.

I AM modulate it to eliminate the frequency drift and to allow those who don't have SSB rigs to monitor it....basically just turn it on/off at audio rates to get the CW and RTTY tones in AM mode....following is some code for the Arduino and a schematic on how I get it all to work....with a 9-volt lithium and a pressure transducer, the total payload weight is about 3 ounces....you should be able to do a similar thing with the Picaxe.

http://www.wb8elk.com/projects.htm (http://www.wb8elk.com/projects.htm)

You can also key it with CW mode if you have an SSB rig on 434 MHz....but it does drift with temperature.

With a 3-element Arrow antenna I get quite good signal strengths and have heard it well enough to copy data even when it's over 100 miles downrange...preamp at the antenna is helpful at this range though.

I am going to try putting one of these on a parachuting Sponge Bob next week and plan to release it on the way up for some students during Field Day.

I just flew my multi-mode tracker without it's amplifier section....about 10 milliwatts on 2m FM....nice signal levels out to 40 miles with a 3-element Arrow on the ground....upwards of S-5 throughout the flight using DominoEX mode....that system weighed in at 5 ounces complete with built-in GPS and antenna....but it proved to be a bit too much for the 9-volt lithium when it got cold....more insulation needed....it did come back to life as it warmed up on the descent though. That one was heard 200 miles away by Hank W4HTB.

- Bill WB8ELK

**********Download the AOL Classifieds Toolbar for local deals at your fingertips.
(http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004)

5473. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-21 14:58:28 UTC
From: L. Paul Verhage
Topic: 5470 Message: 5473

Hey Bill, I remmeber you talking about this last year at GPSL. I was lookiing at the CricketSat plans and see they use a 555 timer and decoder chip. I figured using a PICAXE-08M woud be a cheap subsititute.

Thinking it over again, I see the transmitter operates in the 70 cm band, so I don't have to pull the 3rd harmonic out of it. So I'll try to get CW out of it like you do.

Thanks,
Paul

On Sun, Jun 21, 2009 at 4:01 AM, <wb8elk@...> wrote:

>
>
> Hi Paul,
>
> I've done several flights with that exact SparkFun 434 MHz transmitter
> module....it puts out about 10 milliwatts ... I attach a dipole to it
> directly to the module.
>
> I AM modulate it to eliminate the frequency drift and to allow those who
> don't have SSB rigs to monitor it....basically just turn it on/off at audio
> rates to get the CW and RTTY tones in AM mode....following is some code for
> the Arduino and a schematic on how I get it all to work....with a 9-volt
> lithium and a pressure transducer, the total payload weight is about 3
> ounces....you should be able to do a similar thing with the Picaxe.
>
> http://www.wb8elk.com/projects.htm
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> You can also key it with CW mode if you have an SSB rig on 434 MHz....but
> it does drift with temperature.
>
> With a 3-element Arrow antenna I get quite good signal strengths and have
> heard it well enough to copy data even when it's over 100 miles
> downrange...preamp at the antenna is helpful at this range though.
>
> I am going to try putting one of these on a parachuting Sponge Bob next
> week and plan to release it on the way up for some students during Field
> Day.
>
> I just flew my multi-mode tracker without it's amplifier section....about
> 10 milliwatts on 2m FM....nice signal levels out to 40 miles with a
> 3-element Arrow on the ground....upwards of S-5 throughout the flight using
> DominoEX mode....that system weighed in at 5 ounces complete with built-in
> GPS and antenna....but it proved to be a bit too much for the 9-volt lithium

> when it got cold....more insulation needed....it did come back to life as it
> warmed up on the descent though. That one was heard 200 miles away by Hank
> W4HTB.
>
> - Bill WB8ELK
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> ------------------------------
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Toolbar<http://toolbar.aol.com/aolclassifieds/download.html?ncid=emlcntusdown00000004>for
local deals at your fingertips.
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--
Onwards and Upwards,
Paul

5474. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-21 22:02:19 UTC
From: Mike Manes
Topic: 5470 Message: 5474

Hi Paul,

Two problems:

1. The 3rd harmonic of 434 MHz is 1302 MHz. There is no 2m-band energy in any waveform that has a 434 MHz fundamental. Better to use a lighter 434 MHz antenna and track it there. And it'll need a CW ID to boot.

2. 14 CFR 101.5(b) prohibits dropping stuff from a balloon if (big if!) it "creates a hazard to other persons or their property.", and there's no exemption from that requirement. Now, one would be hard pressed to show how your "Idaho potato bomb" might create such a hazard, (unless one considers coronary atherosclerosis), but this 1/2 lb missile in free fall? Owie! A PVC "crime scene" tape might retard its descent rate to what might be arguably "safe", however,

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> After mulling over the CricketSat idea for a while, I'd like to give
> something very similiar a try.
>
> The transmitter operates at 434 MHz and costs $4.00 (see
> http://www.sparkfun.com/commerce/product_info.php?products_id=8946).
> I'd like to use a PICAXE-08M that costs $3.00 (see
> http://www.sparkfun.com/commerce/product_info.php?products_id=8308) to
> send a square wave to the transmitter and then cut the antenna to the
> 3rd harmonic (144.67 MHz).
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> The PICAXE will switch the square wave on and off to send the
> temperature from a LM335 read with its 10-bit ADC.
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> I'm wondering if we could hear and record data from a 10 mW transmitter
> on the third harmonic and then fox hunt it if I dropped it from a
> balloon. Also, would anyone in the Topeka area be interested in helping
> me test this? This would be a $10 (and therefore if it gets lost, no
> big deal) near space drop sonde and perhaps a fun fox hunt.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5475. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-22 01:32:28 UTC
From: L. Paul Verhage
Topic: 5470 Message: 5475

I was thinking the wrong direction in regards to the harmonic. I now realize the primary frequency is well within the amateur 70 cm band, so I'll stick with that.

The transmitter, PICAXE, temp sensor, battery, and voltage regulator should be less than 3 ounces. I'll fit it into a 6 inch dameter styrofoam ball and drop it on a parachute. Making an asumption on its drop rate, we can create a temperature profile of the atmosphere.

I wonder if I can record this data on the near spacecraft and download the data after recovery.

Eventually I'd like to do overnight missions for a Field Day Super Launch and release dropsondes like this every few hours.

Paul

On Sun, Jun 21, 2009 at 5:02 PM, Mike Manes <mrmanes@...> wrote:

> Hi Paul,
>
> Two problems:
>
> 1. The 3rd harmonic of 434 MHz is 1302 MHz. There is no 2m-band energy in
> any waveform that has a 434 MHz fundamental. Better to use a lighter 434
> MHz
> antenna and track it there. And it'll need a CW ID to boot.
>
> 2. 14 CFR 101.5(b) prohibits dropping stuff from a balloon if (big if!) it
> "creates a hazard to other persons or their property.", and there's no
> exemption from that requirement. Now, one would be hard pressed to show
> how
> your "Idaho potato bomb" might create such a hazard, (unless one considers
> coronary atherosclerosis), but this 1/2 lb missile in free fall? Owie!
> A PVC "crime scene" tape might retard its descent rate to what might be
> arguably "safe", however,
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> >
> >
> > After mulling over the CricketSat idea for a while, I'd like to give
> > something very similiar a try.
> >
> > The transmitter operates at 434 MHz and costs $4.00 (see

> > http://www.sparkfun.com/commerce/product_info.php?products_id=8946).
> > I'd like to use a PICAXE-08M that costs $3.00 (see
> > http://www.sparkfun.com/commerce/product_info.php?products_id=8308) to
> > send a square wave to the transmitter and then cut the antenna to the
> > 3rd harmonic (144.67 MHz).
> >
> > The PICAXE will switch the square wave on and off to send the
> > temperature from a LM335 read with its 10-bit ADC.
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> > I'm wondering if we could hear and record data from a 10 mW transmitter
> > on the third harmonic and then fox hunt it if I dropped it from a
> > balloon. Also, would anyone in the Topeka area be interested in helping
> > me test this? This would be a $10 (and therefore if it gets lost, no
> > big deal) near space drop sonde and perhaps a fun fox hunt.
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> > --
> > Onwards and Upwards,
> > Paul
> >
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> ------------------------------------
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> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

5476. Re: Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 01:48:20 UTC
From: Dave
Topic: 5470 Message: 5476

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I was thinking the wrong direction in regards to the harmonic. I now
> realize the primary frequency is well within the amateur 70 cm band, so I'll
> stick with that.

You could, of course, install a divider chip, and use that to get
a subharmonic (although division by three can be tricky). But,
70 cm will probably be easier to deal with than 2 meters (Less
crowded, easier/smaller high gain antennas, etc.).

> The transmitter, PICAXE, temp sensor, battery, and voltage regulator should
> be less than 3 ounces. I'll fit it into a 6 inch dameter styrofoam ball and
> drop it on a parachute. Making an asumption on its drop rate, we can create
> a temperature profile of the atmosphere.

Free-fall=bad. Parachute=good. Padding=extra-good. :-)

Plus, using a parachute will give the temperature sensor time to
respond. However, beware the insulating effects of the
styrofoam all (Preaching to the choir...).

The drop rate won't be linear, of course, but you can probably
come up with an appropriate fit, based on some atmospheric density
assumptions.

> I wonder if I can record this data on the near spacecraft and download the
> data after recovery.

That might be an option, or you might think about connecting a
serial EEPROM on the drop capsule to record the data (Or course,
that means you'd have to recover the capsule.). And, it means
you'll have to come up with a system for reading the data out.

> Eventually I'd like to do overnight missions for a Field Day Super Launch
> and release dropsondes like this every few hours.

Put an LED on it so it can be tracked visually? Actually, I've
wondered how far away you could see a pulsed "super-bright" LED
from. Might be an interesting night launch opportunity.

> Paul

Dave

5477. OT: long-range wireless thermometer

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 03:27:48 UTC
From: Mark Conner
Topic: 5477 Message: 5477

I've given up on consumer-grade wireless thermometers - either the remote units fail within a year, or they are too weak to transmit through the steel siding we have on the house. However, I'm not ready to spend the $$ on a Davis weather station either. I'm wondering if any of the balloonists out there have made their own wireless thermometer that doesn't require a lot of esoteric parts or a lot of time to tweak (any time I spend on this comes out of the time I could spend on balloon payloads).

I'd like something that has a free-space range on the order of 500-1000 ft and can be powered for a reasonable period of time (year?) on the remote's batteries, and the indoor unit can either be on a wall wart or also on batteries. I think wireless radios like the XBee are probably overkill, but the $4 315 or 434 MHz transmitters may not have enough oomph to make it through the siding reliably. I'm figuring something like the PICAXE chips would be well suited to be the brains on both ends.

Anyone have any thoughts on this?

73 de Mark N9XTN

5478. Momma don't take my Kodachrome away!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 16:47:18 UTC
From: L. Paul Verhage
Topic: 5478 Message: 5478

On NPR thgis morning, I heard Kodak has stopped selling Kodachrome. Digital cameras are killing off film.

--
Onwards and Upwards,
Paul

5479. Nice Photo of Earth from ISS!!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 16:58:17 UTC
From: L. Paul Verhage
Topic: 5479 Message: 5479

http://io9.com/5299919/nasa-volcano-image-shows-atmospheric-shockwave

--
Onwards and Upwards,
Paul

5480. Re: [GPSL] Drop Sondes Idea

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 18:41:00 UTC
From: Mark Garrett
Topic: 5470 Message: 5480

Bill:

Get someone to shoot some video of your Spong Bob project for posting you YouTube . This sounds like it should provide some interest especially if you can track and video it's descent.

Mark Garrett
KA9SZX

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Sunday, June 21, 2009 4:01:45 AM
Subject: Re: [GPSL] Drop Sondes Idea

Download the AOL Classifieds Toolbar for local deals at your fingertips.
Hi Paul,

  I've done several flights with that exact SparkFun 434 MHz transmitter module....it puts out about 10 milliwatts ... I attach a dipole to it directly to the module.

  I AM modulate it to eliminate the frequency drift and to allow those who don't have SSB rigs to monitor it....basically just turn it on/off at audio rates to get the CW and RTTY tones in AM mode....following is some code for the Arduino and a schematic on how I get it all to work....with a 9-volt lithium and a pressure transducer, the total payload weight is about 3 ounces....you should be able to do a similar thing with the Picaxe.

http://www.wb8elk. com/projects. htm

  You can also key it with CW mode if you have an SSB rig on 434 MHz....but it does drift with temperature.

  With a 3-element Arrow antenna I get quite good signal strengths and have heard it well enough to copy data even when it's over 100 miles downrange... preamp at the antenna is helpful at this range though.

  I am going to try putting one of these on a parachuting Sponge Bob next week and plan to release it on the way up for some students during Field Day.

  I just flew my multi-mode tracker without it's amplifier section....about 10 milliwatts on 2m FM....nice signal levels out to 40 miles with a 3-element Arrow on the ground....upwards of S-5 throughout the flight using DominoEX mode....that system weighed in at 5 ounces complete with built-in GPS and antenna....but it proved to be a bit too much for the 9-volt lithium when it got cold....more insulation needed....it did come back to life as it warmed up on the descent though. That one was heard 200 miles away by Hank W4HTB.

- Bill WB8ELK

5481. Field Day Balloon from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 20:29:57 UTC
From: wb8elk@aol.com
Topic: 5481 Message: 5481

> WB8ELK-11 on 144.39 APRS

> Simplex voice repeater on 144.36 MHz

> 433.92 MHz CW telemetry

> - possible 28.173 MHz DominoEX16? and CW

Launch time at 1:30 pm CDT Saturday June 27th?from the NSSTC building in Huntsville, AL

- Bill WB8ELK

5482. Re: [GPSL] Momma don't take my Kodachrome away!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 23:34:41 UTC
From: Mike Manes
Topic: 5478 Message: 5482

The same NPR report noted that there was only ONE lab on the planet that could process Kodachrome - in Wichita, KS IIRC.

That was GREAT film, but yeah, a 10 Mp camera with a good lens can pretty well match the performance of 35 mm Kodachrome. Now we just need SDcards that will keep images intact for 50 years!

L. Paul Verhage wrote:
>
>
> On NPR thgis morning, I heard Kodak has stopped selling Kodachrome.
> Digital cameras are killing off film.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5483. Re: [GPSL] Momma don't take my Kodachrome away!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-23 22:49:26 UTC
From: Joe
Topic: 5478 Message: 5483

Never mind astrophotography.

kodachrome was my first color film to do astro work. ectachrome too was awesome.

Yes the CCD's now make images that blow away any image made using film, but film cost a few bucks, show me a decent astro ccd that doesn't cost a kilobuck!

Mike Manes wrote:

>The same NPR report noted that there was only ONE lab on the planet that could
>process Kodachrome - in Wichita, KS IIRC.
>
>That was GREAT film, but yeah, a 10 Mp camera with a good lens can pretty well
>match the performance of 35 mm Kodachrome. Now we just need SDcards that will
>keep images intact for 50 years!
>
>L. Paul Verhage wrote:
>
>
>>On NPR thgis morning, I heard Kodak has stopped selling Kodachrome.
>>Digital cameras are killing off film.
>>
>>--
>>Onwards and Upwards,
>>Paul
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.375 / Virus Database: 270.12.89/2197 - Release Date: 06/23/09 05:54:00
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5484. Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 01:23:03 UTC
From: Bruce Coates
Topic: 5484 Message: 5484

Hi Ralph

The Saskatoon Amateur Radio Club will be launching its 6th balloon, SABRE-6 from the VE5AA Field Day site.

Location:
Western Development Museum, Saskatoon, Saskatchewan
http://www.wdm.ca/stoon.html
52 04 44N - 106 40 18W

Frequencies:
VE5AA-11 - 144.390 - APRS plus telemetry
VE5AA-12 - 144.390 - APRS
VE5AA - ATV - 439.250
CW beacon - 222.150

Tracking:
http://aprs.fi/?call=ve5aa-11
http://aprs.fi/?call=ve5aa-12

For more information, visit our club web site at http://ve5aa.dyndns.org

73, Bruce
VE5BNC

5485. Re: [GPSL] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 14:14:39 UTC
From: L. Paul Verhage
Topic: 5484 Message: 5485

So Canada is able to transmit packet over the same frequency I use in the States. Ummm, I wonder if I could convince Rach to take trip to Canada next summer...

Paul

On Tue, Jun 23, 2009 at 8:23 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Ralph
>
> The Saskatoon Amateur Radio Club will be launching its 6th balloon, SABRE-6
> from the VE5AA Field Day site.
>
> Location:
> Western Development Museum, Saskatoon, Saskatchewan
> http://www.wdm.ca/stoon.html
> 52 04 44N - 106 40 18W
>
> Frequencies:
> VE5AA-11 - 144.390 - APRS plus telemetry
> VE5AA-12 - 144.390 - APRS
> VE5AA - ATV - 439.250
> CW beacon - 222.150
>
> Tracking:
> http://aprs.fi/?call=ve5aa-11
> http://aprs.fi/?call=ve5aa-12
>
> For more information, visit our club web site at http://ve5aa.dyndns.org
>
> 73, Bruce
> VE5BNC
>
>
>
>

--
Onwards and Upwards,
Paul

5486. Re: [GPSL] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 15:33:03 UTC
From: Joe
Topic: 5484 Message: 5486

Ya know, I never thought of this before, But with a Video flight, or a flight that has any 70 cm band activity on it,, How are we effecting the Line "A" rule?
Obviously we will be "Intruding" into this no 70 cm sig zone with a balloon flight.. just never thought of it before.

Joe WB9SBD

>
>

5487. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 15:57:29 UTC
From: BASE
Topic: 5487 Message: 5487

Joe,

I thought that Line A only reduces the available 70 cm band to 430-450 MHz and is based on the location of the transmitter.

Howard

--- On Wed, 6/24/09, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
To: GPSL@yahoogroups.com
Date: Wednesday, June 24, 2009, 11:33 AM

Ya know, I never thought of this before, But with a Video flight, or

a flight that has any 70 cm band activity on it,, How are we effecting

the Line "A" rule?

Obviously we will be "Intruding" into this no 70 cm sig zone with a

balloon flight.. just never thought of it before.

Joe WB9SBD

>

>

5488. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 16:04:06 UTC
From: Joe
Topic: 5487 Message: 5488

that's the whole question, It is intended to keep our signals out of
that zone. Obviously they never thought of a tranny that has a 300+
mile circle of coverage. and that it's signal WILL be heard and heard
easily in that zone.

BASE wrote:

>
>
> Joe,
>
> I thought that Line A only reduces the available 70 cm band to 430-450
> MHz and is based on the location of the transmitter.
>
> Howard
>
> --- On Wed, 6/24/09, Joe <nss@...> wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
> To: GPSL@yahoogroups.com
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> Joe WB9SBD
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>No virus found in this incoming message.

>Checked by AVG - www.avg.com
>Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00
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5489. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 17:45:10 UTC
From: Mike Manes
Topic: 5487 Message: 5489

Hey, what's this "Line A Rule" and where's it imposed?

EOSS has flown DSB AM NTSC ATV with a carrier on 426.25 MHz since EOSS-1
back in 1990, and no one has ever nicked us. In fact, in the rare cases where
we've flown two ATVs simultaneously, we DID get gigged when a sideband from
the 439.25 xmtr got into the input of one of local repeaters in Colo Springs.

During GPSL a couple of years ago, EOSS and Bill WB8ELK both flew ATV on
426.25, and we arranged to time-share the freq 50-50 in 2-minute cycles.
This did requires us to sync up before launch, but it did appear to work
OK, despite the imprecise time bases used for that "slotting" scheme.

73 de Mike W5VSI
CTO EOSS

Joe wrote:
>
>
> that's the whole question, It is intended to keep our signals out of
> that zone. Obviously they never thought of a tranny that has a 300+
> mile circle of coverage. and that it's signal WILL be heard and heard
> easily in that zone.
>
> BASE wrote:
>> Joe,
>>
>> I thought that Line A only reduces the available 70 cm band to 430-450
>> MHz and is based on the location of the transmitter.
>>
>> Howard
>>
>> --- On *Wed, 6/24/09, Joe /<nss@...>/* wrote:
>>
>>
>> From: Joe <nss@...>
>> Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
>> To: GPSL@yahoogroups.com
>> Date: Wednesday, June 24, 2009, 11:33 AM
>>
>> Ya know, I never thought of this before, But with a Video flight, or
>> a flight that has any 70 cm band activity on it,, How are we
>> effecting
>> the Line "A" rule?
>> Obviously we will be "Intruding" into this no 70 cm sig zone with a
>> balloon flight.. just never thought of it before.
>>

>> Joe WB9SBD
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5490. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 17:01:18 UTC
From: Joe
Topic: 5487 Message: 5490

http://www.evenfallstudios.com/radio_studies/line_a.html

Mike Manes wrote:

>Hey, what's this "Line A Rule" and where's it imposed?
>
>EOSS has flown DSB AM NTSC ATV with a carrier on 426.25 MHz since EOSS-1
>back in 1990, and no one has ever nicked us. In fact, in the rare cases where
>we've flown two ATVs simultaneously, we DID get gigged when a sideband from
>the 439.25 xmtr got into the input of one of local repeaters in Colo Springs.
>
>During GPSL a couple of years ago, EOSS and Bill WB8ELK both flew ATV on
>426.25, and we arranged to time-share the freq 50-50 in 2-minute cycles.
>This did requires us to sync up before launch, but it did appear to work
>OK, despite the imprecise time bases used for that "slotting" scheme.
>
>73 de Mike W5VSI
>CTO EOSS
>
>Joe wrote:
>
>
>>that's the whole question, It is intended to keep our signals out of
>>that zone. Obviously they never thought of a tranny that has a 300+
>>mile circle of coverage. and that it's signal WILL be heard and heard
>>easily in that zone.
>>
>>BASE wrote:
>>
>>
>>>Joe,
>>>
>>>I thought that Line A only reduces the available 70 cm band to 430-450
>>>MHz and is based on the location of the transmitter.
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>>>Howard
>>>
>>>--- On *Wed, 6/24/09, Joe /<nss@...>/* wrote:
>>>
>>>
>>> From: Joe <nss@...>
>>> Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
>>> To: GPSL@yahoogroups.com
>>> Date: Wednesday, June 24, 2009, 11:33 AM
>>>

>>> Ya know, I never thought of this before, But with a Video flight, or
>>> a flight that has any 70 cm band activity on it,, How are we
>>> effecting
>>> the Line "A" rule?
>>> Obviously we will be "Intruding" into this no 70 cm sig zone with a
>>> balloon flight.. just never thought of it before.
>>>
>>> Joe WB9SBD
>>>
>>> >
>>> >
>>>
>>>
>>>---
>>>
>>>
>>>No virus found in this incoming message.
>>>Checked by AVG - www.avg.com
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>Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00
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>

5491. [Fwd: StarFighter Integrated Repeater Payload]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 18:53:38 UTC
From: Mike Manes
Topic: 5491 Message: 5491

This is a worthwhile watch. Covers Space Data's DoD work, with a bit
on its balloon-borne cell site system.

Wish there was more on the special latex formulation for UV-resistance, but
I guess that's proprietary. But I've heard thru the grapevine that these
balloons have about a 30% launch failure rate attributable to development
of an bubble or aneurysm on the top.

73 de Mike W5VSI
CTO EOSS

-------- Original Message --------
Subject: StarFighter Integrated Repeater Payload
Date: Wed, 24 Jun 2009 15:35:57 UT
From: Engineering TV <EngineeringTV@...>
Reply-To: EngineeringTV@...
To: mrmanes@...

View this email as a Web page
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417170-0-0-0-1-2-192>

Please add ED_Engineering TV_ to your Safe Sender list.
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417171-0-0-0-1-2-192>

EngineeringTV
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417172-0-0-0-1-2-192>

Digi-Key
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417173-0-0-0-1-2-192>

A Penton Media Property
June 24, 2009

* * *StarFighter Integrated Repeater Payload
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417177-0-0-0-1-2-192>*

<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417178-0-0-0-1-2-192>

Space Data's StarFighter Repeater Platform, currently in use by the
United States Air Force, extends the range of standard issue military
two-way radios from 10 miles to nearly 500 miles. The concept is simple:
fill a balloon with helium or hydrogen and attach a Space Data radio
repeater payload. Once launched and on its way to a roughly 80,000-foot
float, a StarFighter Platform provides users' portable radio systems
with the same communications coverage previously available only via
bulky and expensive satellite equipment.

Sponsored by
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417179-0-0-0-1-2-192>

**

This email was sent to mrmanes@... Email this episode to a friend.
If you no longer wish to receive emails from Engineering TV click here
<http://ct.email.engineeringtv.com/rd/cts?d=33-67757-894-433-2752-3417180-0-0-0-1-2-192&list_id=894&email=mrmanes@...&message_id=67757>

to unsubscribe.

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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5492. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 20:10:39 UTC
From: Mike Manes
Topic: 5487 Message: 5492

Here's the "Line A" rule from Part 97.303:

To Quote the FCC Part 97 Regulations, The Rule for Line A was found in The FCC Part §97.303 Frequency Sharing Requirements: (f) In the 70 cm. band: (1) No amateur station shall transmit from north of Line A in the 420-430 MHz segment.

Thanks to Joe for the link. I guess I was aware of that rule, but didn't give it much thought, since we've never flown anywhere close to that line, much less "from north of" it; I take the latter phrase to mean the location of the transmitter, not its radio horizon. So the IARU probably took terrestrial 70cm props into account when making that rule. And even if the radio horizon from a balloon ATV xmtr goes that far north, it's likely too weak to interfere with a transmission from any public service station in the network; even using an 18 dBi az-el yagi and 1 dB LNA, we get no better than P3 ATV past 50 miles downrange.

So I guess I'd not fret about it so long as the balloon's lat/lon conforms with that rule.

73 de Mike W5VSI

Joe wrote:
>
>
> http://www.evenfallstudios.com/radio_studies/line_a.html
>
> Mike Manes wrote:
>> Hey, what's this "Line A Rule" and where's it imposed?
>>
>> EOSS has flown DSB AM NTSC ATV with a carrier on 426.25 MHz since EOSS-1
>> back in 1990, and no one has ever nicked us. In fact, in the rare cases where
>> we've flown two ATVs simultaneously, we DID get gigged when a sideband from
>> the 439.25 xmtr got into the input of one of local repeaters in Colo Springs.
>>
>> During GPSL a couple of years ago, EOSS and Bill WB8ELK both flew ATV on
>> 426.25, and we arranged to time-share the freq 50-50 in 2-minute cycles.
>> This did requires us to sync up before launch, but it did appear to work
>> OK, despite the imprecise time bases used for that "slotting" scheme.
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> Joe wrote:
>>
>>> that's the whole question, It is intended to keep our signals out of
>>> that zone. Obviously they never thought of a tranny that has a 300+

>>> mile circle of coverage. and that it's signal WILL be heard and heard
>>> easily in that zone.
>>>
>>> BASE wrote:
>>>
>>>> Joe,
>>>>
>>>> I thought that Line A only reduces the available 70 cm band to 430-450
>>>> MHz and is based on the location of the transmitter.
>>>>
>>>> Howard
>>>>
>>>> --- On *Wed, 6/24/09, Joe /<nss@...>/* wrote:
>>>>
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>>>> From: Joe <nss@...>
>>>> Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
>>>> To: GPSL@yahoogroups.com
>>>> Date: Wednesday, June 24, 2009, 11:33 AM
>>>>
>>>> Ya know, I never thought of this before, But with a Video flight, or
>>>> a flight that has any 70 cm band activity on it,, How are we
>>>> effecting
>>>> the Line "A" rule?
>>>> Obviously we will be "Intruding" into this no 70 cm sig zone with a
>>>> balloon flight.. just never thought of it before.
>>>>
>>>> Joe WB9SBD
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>>>> No virus found in this incoming message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00
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>> Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5493. Re: [GPSL] Line A rule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 20:50:28 UTC
From: wb8elk@aol.com
Topic: 5487 Message: 5493

Line A has been a real thorn in the side of ATV operations for those who are near the Canadian border....in fact, Line A extends quite some distance into the US...(about 70 miles or so south of the border).

The fact that it exists at all?could potentially mean that we could eventually lose 420 - 430 MHz in the US once a land mobile service?makes a grab for it and shows the Canadian precedence.?

I should know since I used to live just 1 mile south of Line A in Findlay, Ohio...in that region 41.00 deg N is the cutoff point.
It's my understanding that as long as your ground position is below that line A...then regardless of altitude, you are ok....although I've never flown 426.25 MHz on a balloon from Findlay....I could do so as long as the balloon's flight path kept below 41 deg N
Line A's boundary is complicated...it's only 41 deg N in that portion of Ohio....basically it's about 70 miles south of the Canadian border.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 24, 2009 12:01 pm
Subject: Re: [GPSL] Line A rule

http://www.evenfallstudios.com/radio_studies/line_a.html

Mike Manes wrote:

Hey, what's this "Line A Rule" and where's it imposed?

EOSS has flown DSB AM NTSC ATV with a carrier on 426.25 MHz since EOSS-1
back in 1990, and no one has ever nicked us. In fact, in the rare cases where
we've flown two ATVs simultaneously, we DID get gigged when a sideband from
the 439.25 xmtr got into the input of one of local repeaters in Colo Springs.

During GPSL a couple of years ago, EOSS and Bill WB8ELK both flew ATV on
426.25, and we arranged to time-share the freq 50-50 in 2-minute cycles.
This did requires us to sync up before launch, but it did appear to work
OK, despite the imprecise time bases used for that "slotting" scheme.

73 de Mike W5VSI
CTO EOSS

Joe wrote:

that's the whole question, It is intended to keep our signals out of
that zone. Obviously they never thought of a tranny that has a 300+
mile circle of coverage. and that it's signal WILL be heard and heard

easily in that zone.

BASE wrote:

Joe,

I thought that Line A only reduces the available 70 cm band to 430-450
MHz and is based on the location of the transmitter.

Howard

--- On *Wed, 6/24/09, Joe /<nss@...>/* wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
To: GPSL@yahoogroups.com
Date: Wednesday, June 24, 2009, 11:33 AM

Ya know, I never thought of this before, But with a Video flight, or
a flight that has any 70 cm band activity on it,, How are we
effecting
the Line "A" rule?
Obviously we will be "Intruding" into this no 70 cm sig zone with a
balloon flight.. just never thought of it before.

Joe WB9SBD

>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.12.90/2199 - Release Date: 06/24/09 06:23:00

5494. Re: [GPSL] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 20:36:36 UTC
From: wb8elk@aol.com
Topic: 5484 Message: 5494

Joe...Line A prohibits 420 through 430 MHz only....which has made it impractical for many ATV repeaters that are along that line...but the simplex frequencies are still ok above 430 MHz.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 24, 2009 10:33 am
Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28

Ya know, I never thought of this before, But with a Video flight, or
a flight that has any 70 cm band activity on it,, How are we effecting
the Line "A" rule?
Obviously we will be "Intruding" into this no 70 cm sig zone with a
balloon flight.. just never thought of it before.

Joe WB9SBD

>
>

5495. Re: [GPSL] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-24 23:34:50 UTC
From: Bruce Coates
Topic: 5484 Message: 5495

Hi Joe

You've started an interesting discussion here.

I think intent of the rule is to prevent intentional transmission into an area that doesn't permit it rather than preventing any possibility of it. As others have mentioned, the amount of energy on a given frequency other than the video and audio carriers of an ATV signal is quite small. Put that together with the population density of Canada adjacent to the boarder and the likelihood of actually causing interference is very small except in south west British Columbia, Ontario, and south west Quebec. Even there, you would only be at an elevation that could interfere for an hour or less except for long duration flights. There are lots of situations where signals from south of Line A might unintentionally enter Canada such as ducting or meteor scatter. Line A is just an attempt to prevent knowingly causing interference.

Besides, being the polite people that we are, we'd probably just invite you over for a brew and forget about it all afterward. ;-)

73, Bruce

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 24, 2009 10:33 am
Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28

Ya know, I never thought of this before, But with a Video flight, or
a flight that has any 70 cm band activity on it,, How are we effecting
the Line "A" rule?
Obviously we will be "Intruding" into this no 70 cm sig zone with a
balloon flight.. just never thought of it before.

Joe WB9SBD

>
>

Huge Savings on Popular Laptops only at Dell.com. Shop Now!

5496. Re: [GPSL] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-25 00:03:45 UTC
From: Joe
Topic: 5484 Message: 5496

if you add a Pizza to the Brew I'm there!

Joe

Bruce Coates wrote:

>Hi Joe
>
>You've started an interesting discussion here.
>
>I think intent of the rule is to prevent intentional transmission into an
>area that doesn't permit it rather than preventing any possibility of it.
>As others have mentioned, the amount of energy on a given frequency other
>than the video and audio carriers of an ATV signal is quite small. Put that
>together with the population density of Canada adjacent to the boarder and
>the likelihood of actually causing interference is very small except in
>south west British Columbia, Ontario, and south west Quebec. Even there,
>you would only be at an elevation that could interfere for an hour or less
>except for long duration flights. There are lots of situations where
>signals from south of Line A might unintentionally enter Canada such as
>ducting or meteor scatter. Line A is just an attempt to prevent knowingly
>causing interference.
>
>Besides, being the polite people that we are, we'd probably just invite you
>over for a brew and forget about it all afterward. ;-)
>
>73, Bruce
>
>-----Original Message-----
>From: Joe <nss@...>
>To: GPSL@yahoogroups.com
>Sent: Wed, Jun 24, 2009 10:33 am
>Subject: Re: [GPSL] Flight announcement - SABRE-6 - June 28
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>Ya know, I never thought of this before, But with a Video flight, or
>a flight that has any 70 cm band activity on it,, How are we effecting
>the Line "A" rule?
>Obviously we will be "Intruding" into this no 70 cm sig zone with a
>balloon flight.. just never thought of it before.
>
>Joe WB9SBD
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>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.375 / Virus Database: 270.12.90/2200 - Release Date: 06/24/09 12:49:00
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5497. WB8ELK Field Day balloon with streaming video of launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-27 10:44:34 UTC
From: wb8elk@aol.com
Topic: 5497 Message: 5497

From Huntsville, AL today (Saturday) at 1:30 pm CDT.

Simplex voice repeater on 144.36 MHz
APRS on 144.39: WB8ELK-11

- Bill WB8ELK

Streaming video will start around 1:00 pm or so....

www.batc.tv (http://www.batc.tv)

Members Streams....then select WB8ELK

**********An Excellent Credit Score is 750. See Yours in Just 2 Easy
Steps!
(http://pr.atwola.com/promoclk/100126575x1222585065x1201462786/aol?redir=http://www.freecr
editreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=Jun
eExcfooterNO62)

5498. File Updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-29 15:16:33 UTC
From: L. Paul Verhage
Topic: 5498 Message: 5498
Attachments: 1 described; binary payloads are missing from this source WARC

I need everyone to look over my records (in the attached file). Are they're any updates?

Thanks
--
Onwards and Upwards,
Paul

5499. Re: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-29 22:09:41 UTC
From: Bruce Coates
Topic: 5499 Message: 5499

SABRE-6 was launched and recovered. We had a few technical issues. One tracker failed at liftoff and the second one failed on decent at about 46000 feet. We had to use old fashioned DFing of the 222 MHz beacon to track it. It took us an extra hour to find it but we finally did. We also had lift problems. Our original payload was about 2Kg. After draining 2 full 79 cu-ft tanks, we only had enough lift for the tracking and payload and had to disconnect the ATV payload leaving us just over a kilogram of payload. Even then we only had 800ft/min of lift and only achieved 77,000 feet. We're not sure but we suspect that our Helium may not have been very good, far less than pure. We've lifted the same payload in the past with less Helium in the past.

We were fortunate to have 2 TV stations with video crews out for the event and we got our pictures to the TV stations in time for the supper and evening newscasts. I also did an interview with CBC Radio's Morning Edition this morning. Great publicity for ham radio.

A full write-up complete with pictures will be on our web page in the next few days.

73, Bruce
VE5BNC
http://ve5aa.dyndns.org/Balloon/sabre_6.html

----- Original Message -----
From: Bruce Coates
To: W0RPK@...
Cc: balloon_sked ; GPSL Balloon Reflector
Sent: Tuesday, June 23, 2009 7:23 PM
Subject: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Hi Ralph

The Saskatoon Amateur Radio Club will be launching its 6th balloon, SABRE-6 from the VE5AA Field Day site.

Location:
Western Development Museum, Saskatoon, Saskatchewan
http://www.wdm.ca/stoon.html
52 04 44N - 106 40 18W

Frequencies:
VE5AA-11 - 144.390 - APRS plus telemetry
VE5AA-12 - 144.390 - APRS
VE5AA - ATV - 439.250
CW beacon - 222.150

Tracking:
http://aprs.fi/?call=ve5aa-11
http://aprs.fi/?call=ve5aa-12

For more information, visit our club web site at http://ve5aa.dyndns.org

73, Bruce
VE5BNC

5500. Re: [GPSL] Re: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-30 22:14:50 UTC
From: Mike Manes
Topic: 5499 Message: 5500

Hi Bruce,

You didn't mention the balloon size and total neck load, but 158 cu ft of pure He should have hauled up 1.8 kg at 1000 ft/min. It's possible that you got "balloon gas", which has a lot of N2 mixed in to keep party balloons inflated even after the He leaks out thru the latex pores. This has tripped up more than one balloon group!

And it sounds as though you could use a lot more thermal insulation, or run a cold soak on the beacons to see where they quit. Ours still operate at -15C.

FB on Dfing the 220 Mhz beacons, however. Well done, the hard way!

Better luck next time,
73 de Mike W5VSI
CTO EOSS

Bruce Coates wrote:
>
>
> SABRE-6 was launched and recovered. We had a few technical issues. One
> tracker failed at liftoff and the second one failed on decent at about
> 46000 feet. We had to use old fashioned DFing of the 222 MHz beacon to
> track it. It took us an extra hour to find it but we finally did. We
> also had lift problems. Our original payload was about 2Kg. After
> draining 2 full 79 cu-ft tanks, we only had enough lift for the tracking
> and payload and had to disconnect the ATV payload leaving us just over a
> kilogram of payload. Even then we only had 800ft/min of lift and only
> achieved 77,000 feet. We're not sure but we suspect that our Helium may
> not have been very good, far less than pure. We've lifted the same
> payload in the past with less Helium in the past.
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> We were fortunate to have 2 TV stations with video crews out for the
> event and we got our pictures to the TV stations in time for the supper
> and evening newscasts. I also did an interview with CBC Radio's Morning
> Edition this morning. Great publicity for ham radio.
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> A full write-up complete with pictures will be on our web page in the
> next few days.
>
> 73, Bruce
> VE5BNC
> http://ve5aa.dyndns.org/Balloon/sabre_6.html
>

>
> ----- Original Message -----
> *From:* Bruce Coates <mailto:bruce.coates@...>
> *To:* W0RPK@... <mailto:W0RPK@...>
> *Cc:* balloon_sked <mailto:Balloon_Sked@yahoogroups.com> ; GPSL
> Balloon Reflector <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, June 23, 2009 7:23 PM
> *Subject:* [Balloon_Sked] Flight announcement - SABRE-6 - June 28
>
> Hi Ralph
>
> The Saskatoon Amateur Radio Club will be launching its 6th balloon,
> SABRE-6 from the VE5AA Field Day site.
>
> Location:
> Western Development Museum, Saskatoon, Saskatchewan
> http://www.wdm.ca/stoon.html
> 52 04 44N - 106 40 18W
>
> Frequencies:
> VE5AA-11 - 144.390 - APRS plus telemetry
> VE5AA-12 - 144.390 - APRS
> VE5AA - ATV - 439.250
> CW beacon - 222.150
>
> Tracking:
> http://aprs.fi/?call=ve5aa-11
> http://aprs.fi/?call=ve5aa-12
>
> For more information, visit our club web site at http://ve5aa.dyndns.org
>
> 73, Bruce
> VE5BNC
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5501. Re: [GPSL] Re: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-30 21:25:57 UTC
From: Bruce Coates
Topic: 5499 Message: 5501

Hi Mike

Thanks for the tip about the N2. That makes complete sense. I didn't know about that. I really want to try Hydrogen mostly for price but perhaps for predictability too. I'll be watching the demo at GPSL closely.

Our internal temperature never dropped below about +15C so I don't think it was the cold. Real mystery. Oh well, that's what it's all about.

73, Bruce
----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Tuesday, June 30, 2009 4:14 PM
Subject: Re: [GPSL] Re: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Hi Bruce,

You didn't mention the balloon size and total neck load, but 158 cu ft of
pure He should have hauled up 1.8 kg at 1000 ft/min. It's possible that
you got "balloon gas", which has a lot of N2 mixed in to keep party balloons
inflated even after the He leaks out thru the latex pores. This has tripped
up more than one balloon group!

And it sounds as though you could use a lot more thermal insulation, or
run a cold soak on the beacons to see where they quit. Ours still operate
at -15C.

FB on Dfing the 220 Mhz beacons, however. Well done, the hard way!

Better luck next time,
73 de Mike W5VSI
CTO EOSS

Bruce Coates wrote:
>
>
> SABRE-6 was launched and recovered. We had a few technical issues. One
> tracker failed at liftoff and the second one failed on decent at about
> 46000 feet. We had to use old fashioned DFing of the 222 MHz beacon to
> track it. It took us an extra hour to find it but we finally did. We
> also had lift problems. Our original payload was about 2Kg. After
> draining 2 full 79 cu-ft tanks, we only had enough lift for the tracking
> and payload and had to disconnect the ATV payload leaving us just over a
> kilogram of payload. Even then we only had 800ft/min of lift and only
> achieved 77,000 feet. We're not sure but we suspect that our Helium may

> not have been very good, far less than pure. We've lifted the same
> payload in the past with less Helium in the past.
>
> We were fortunate to have 2 TV stations with video crews out for the
> event and we got our pictures to the TV stations in time for the supper
> and evening newscasts. I also did an interview with CBC Radio's Morning
> Edition this morning. Great publicity for ham radio.
>
> A full write-up complete with pictures will be on our web page in the
> next few days.
>
> 73, Bruce
> VE5BNC
> http://ve5aa.dyndns.org/Balloon/sabre_6.html
>
>
> ----- Original Message -----
> *From:* Bruce Coates <mailto:bruce.coates@...>
> *To:* W0RPK@... <mailto:W0RPK@...>
> *Cc:* balloon_sked <mailto:Balloon_Sked@yahoogroups.com> ; GPSL
> Balloon Reflector <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, June 23, 2009 7:23 PM
> *Subject:* [Balloon_Sked] Flight announcement - SABRE-6 - June 28
>
> Hi Ralph
>
> The Saskatoon Amateur Radio Club will be launching its 6th balloon,
> SABRE-6 from the VE5AA Field Day site.
>
> Location:
> Western Development Museum, Saskatoon, Saskatchewan
> http://www.wdm.ca/stoon.html
> 52 04 44N - 106 40 18W
>
> Frequencies:
> VE5AA-11 - 144.390 - APRS plus telemetry
> VE5AA-12 - 144.390 - APRS
> VE5AA - ATV - 439.250
> CW beacon - 222.150
>
> Tracking:
> http://aprs.fi/?call=ve5aa-11
> http://aprs.fi/?call=ve5aa-12
>
> For more information, visit our club web site at http://ve5aa.dyndns.org
>
> 73, Bruce
> VE5BNC
>
>

>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5502. RE: [GPSL] File Updates [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-30 22:04:20 UTC
From: Nick Hanks
Topic: 5498 Message: 5502

Hi Paul,

Just two small changes to your file. Our count to Garmin went down by two to 17 and our attendees at the tech session went down by 1 to 13.

How did the conversation with Linweld go? Curious as to the size of the $73.22 bottles of helium with regard cubic ft. and size designation (T or K).

We're set to go and looking forward to this year's GPSL.

73,

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, June 29, 2009 09:17
To: gpsl@yahoogroups.com
Subject: [GPSL] File Updates [1 Attachment]

[Attachment(s) from L. Paul Verhage included below]

I need everyone to look over my records (in the attached file). Are they're any updates?

Thanks
--
Onwards and Upwards,
Paul

5503. Re: [GPSL] Re: [Balloon_Sked] Flight announcement - SABRE-6 - June 28

Yahoo group: GPSL (2009 — 2010)
Date: 2009-06-30 23:37:29 UTC
From: Mike Manes
Topic: 5499 Message: 5503

Hi Bruce,

Hmmm ... could be that you got some GPS receiver desense from an xmtr in the same package? We fought that with 70cm AM ATV and ended up moving the GPS to another payload over 10 ft down the line and linked it to the ATV overlay using 2.4 GHz Zigbee.

PBC may have taken out your 2m beacon antenna, but that would have been obvious on recovery. But are you certain that your payloads can withstand even +15C? That's pretty warm, but worth checking anyway.

And yeah, H2 is the coming thing. Biggest obstacle is flammability, and perhaps to an even greater extent, the Hindenburg Effect! Good idea not to coat your balloon with gunpowder.

73 de Mike W5VSI

Bruce Coates wrote:
>
>
> Hi Mike
>
> Thanks for the tip about the N2. That makes complete sense. I didn't
> know about that. I really want to try Hydrogen mostly for price but
> perhaps for predictability too. I'll be watching the demo at GPSL closely.
>
> Our internal temperature never dropped below about +15C so I don't think
> it was the cold. Real mystery. Oh well, that's what it's all about.
>
> 73, Bruce
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, June 30, 2009 4:14 PM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Flight announcement -
> SABRE-6 - June 28
>
> Hi Bruce,
>
> You didn't mention the balloon size and total neck load, but 158 cu
> ft of
> pure He should have hauled up 1.8 kg at 1000 ft/min. It's possible that
> you got "balloon gas", which has a lot of N2 mixed in to keep party
> balloons

> inflated even after the He leaks out thru the latex pores. This has
> tripped
> up more than one balloon group!
>
> And it sounds as though you could use a lot more thermal insulation, or
> run a cold soak on the beacons to see where they quit. Ours still
> operate
> at -15C.
>
> FB on Dfing the 220 Mhz beacons, however. Well done, the hard way!
>
> Better luck next time,
> 73 de Mike W5VSI
> CTO EOSS
>
> Bruce Coates wrote:
> >
> >
> > SABRE-6 was launched and recovered. We had a few technical
> issues. One
> > tracker failed at liftoff and the second one failed on decent at
> about
> > 46000 feet. We had to use old fashioned DFing of the 222 MHz
> beacon to
> > track it. It took us an extra hour to find it but we finally did. We
> > also had lift problems. Our original payload was about 2Kg. After
> > draining 2 full 79 cu-ft tanks, we only had enough lift for the
> tracking
> > and payload and had to disconnect the ATV payload leaving us just
> over a
> > kilogram of payload. Even then we only had 800ft/min of lift and
> only
> > achieved 77,000 feet. We're not sure but we suspect that our
> Helium may
> > not have been very good, far less than pure. We've lifted the same
> > payload in the past with less Helium in the past.
> >
> > We were fortunate to have 2 TV stations with video crews out for the
> > event and we got our pictures to the TV stations in time for the
> supper
> > and evening newscasts. I also did an interview with CBC Radio's
> Morning
> > Edition this morning. Great publicity for ham radio.
> >
> > A full write-up complete with pictures will be on our web page in
> the
> > next few days.
> >
> > 73, Bruce
> > VE5BNC

> > http://ve5aa.dyndns.org/Balloon/sabre_6.html
> <http://ve5aa.dyndns.org/Balloon/sabre_6.html>
> >
> >
> > ----- Original Message -----
> > *From:* Bruce Coates <mailto:bruce.coates@...
> <mailto:bruce.coates%40sasktel.net>>
> > *To:* W0RPK@... <mailto:W0RPK%40netINS.net>
> <mailto:W0RPK@... <mailto:W0RPK%40netINS.net>>
> > *Cc:* balloon_sked <mailto:Balloon_Sked@yahoogroups.com
> <mailto:Balloon_Sked%40yahoogroups.com>> ; GPSL
> > Balloon Reflector <mailto:GPSL@yahoogroups.com
> <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Tuesday, June 23, 2009 7:23 PM
> > *Subject:* [Balloon_Sked] Flight announcement - SABRE-6 - June 28
> >
> > Hi Ralph
> >
> > The Saskatoon Amateur Radio Club will be launching its 6th balloon,
> > SABRE-6 from the VE5AA Field Day site.
> >
> > Location:
> > Western Development Museum, Saskatoon, Saskatchewan
> > http://www.wdm.ca/stoon.html <http://www.wdm.ca/stoon.html>
> > 52 04 44N - 106 40 18W
> >
> > Frequencies:
> > VE5AA-11 - 144.390 - APRS plus telemetry
> > VE5AA-12 - 144.390 - APRS
> > VE5AA - ATV - 439.250
> > CW beacon - 222.150
> >
> > Tracking:
> > http://aprs.fi/?call=ve5aa-11 <http://aprs.fi/?call=ve5aa-11>
> > http://aprs.fi/?call=ve5aa-12 <http://aprs.fi/?call=ve5aa-12>
> >
> > For more information, visit our club web site at
> http://ve5aa.dyndns.org <http://ve5aa.dyndns.org>
> >
> > 73, Bruce
> > VE5BNC
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."

> A. Einstein
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5504. Repeaters

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 03:15:03 UTC
From: Nick Hanks
Topic: 5504 Message: 5504

Hi Paul,

I see there is a list of area repeaters on the 2009 GPSL website. But there doesn't seem to be any listed for Topeka. I found a couple of listing with Topeka repeaters in them on the web, but my experience is that these listings are not necessarily accurate. Could you point us to some active repeaters?

Thank you.

Nick

EOSS GPSL Coordinator

5505. Re: [GPSL] File Updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 15:04:58 UTC
From: L. Paul Verhage
Topic: 5498 Message: 5505

I've updated your attendance and just got off the phone with Linweld. We have reserved 12 T-tanks of helium at 330 cu ft per tank and one t-tank of H2. I'll give them anoher call the Monday before GPSL.

Paul

On Tue, Jun 30, 2009 at 5:04 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Hi Paul,
>
>
>
> Just two small changes to your file. Our count to Garmin went down by two
> to 17 and our attendees at the tech session went down by 1 to 13.
>
>
>
> How did the conversation with Linweld go? Curious as to the size of the
> $73.22 bottles of helium with regard cubic ft. and size designation (T or
> K).
>
>
>
> We’re set to go and looking forward to this year’s GPSL.
>
>
>
>
>
> 73,
>
>
>
> Nick
>
> EOSS GPSL Coordinator
>
>
>
>
>
>
> ------------------------------
>

> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Monday, June 29, 2009 09:17
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] File Updates [1 Attachment]
>
>
>
> *[Attachment(s)<http://mail.google.com/mail/?ui=2&view=js&name=js&ver=xWWCalDiPoM.en.&am
=!1cqNLSaoA8C5he3iwbA2wogsKocjD5BIPTV5PLgS#12233330e76a1af1_TopText>from L. Paul Verhage
included below]
> *
>
>
> I need everyone to look over my records (in the attached file). Are
> they're any updates?
>
>
>
> Thanks
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Onwards and Upwards,
Paul

5506. Topeka Repeaters

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 15:10:49 UTC
From: L. Paul Verhage
Topic: 1354 Message: 5506

I need a current list of repeaters for the Topeka area. Can Alpha Ares reply back to this email with that information.

I also need to know if any of the local radio club would like to attend or help out. Sorry I can't make this week's meeting.

--
Onwards and Upwards,
Paul

5507. GPSL Schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 15:22:42 UTC
From: L. Paul Verhage
Topic: 451 Message: 5507

The back up launch site has been moved to Banner Creek Reservoir, north of Topeka off US 75. I'll visit them to get a picture, GPS coordinates, and the exact launch sites (I think it will be just inside their main gate - north side).

I have 51 attendees and need to know numbers for Joe Lynch and ARBONET. I'm assuming everyone will want to have lunch at the conference? It should be $15.

Please start sending in those checks for your gas. My address is 6114 SW 27th #3, Topeka, KS 66614.

Don't forget, CQ VHF has paid for the Topeka showing of the movie Blast! (about high altitude ballooning research at the South Pole).

I have 50 people for the Garmin tour. I need a number of people going on tour from Loughmiller.

We have six presentations and this is how I've set them up. Please let me know if you'd like to switch. Surfing Satellites, can you call in at 2:45 our time?

8:00-8:30 Doors Open/Registration Begins

8:30-9:00 Social Time/Networking/View Displays

9:00-10:00 Welcome/Introduction by Groups/What’s New

10:00-10:15 Break

10:15-10:45 Presentation 1 (Paul Verhage)

10:45-11:15 Presentation 2 (Nick Hanks)

11:15-11:45 Presentation 3 (Bill Brown)

11:45-1:00 Lunch

1:00-2:00 National Organization Discussion

1:30-2:00 Presentation 4 (ARBONET-3)

2:00-2:15 Break

2:15-2:45 Presentation 5 (Gopher Launches)

2:45-3:15 Presentation 6 (Surfing Satellites – call in)

3:15-3:45 Presentation 7?

3:45-4:00 Weather/Flight Prediction

4:00 Adjourn

5:00 Dinner

--
Onwards and Upwards,
Paul

5508. Re: File Updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 15:50:05 UTC
From: David
Topic: 5498 Message: 5508

Hello Paul,

Please add two more to your list for attending the Garmin Tour and the conference. My daughter and I would like to go. The group we are with would be UTARC.

David Hoffman - KE4FGW

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I need everyone to look over my records (in the attached file). Are they're
> any updates?
>
> Thanks
> --
> Onwards and Upwards,
> Paul
>

5509. RE: [GPSL] File Updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 17:05:00 UTC
From: Nick Hanks
Topic: 5498 Message: 5509

Thanks for checking.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Wednesday, July 01, 2009 09:05
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] File Updates

I've updated your attendance and just got off the phone with Linweld. We have reserved 12 T-tanks of helium at 330 cu ft per tank and one t-tank of H2. I'll give them anoher call the Monday before GPSL.

Paul

On Tue, Jun 30, 2009 at 5:04 PM, Nick Hanks <ndhanks@msn. <mailto:ndhanks@...> com> wrote:

Hi Paul,

Just two small changes to your file. Our count to Garmin went down by two to 17 and our attendees at the tech session went down by 1 to 13.

How did the conversation with Linweld go? Curious as to the size of the $73.22 bottles of helium with regard cubic ft. and size designation (T or K).

We're set to go and looking forward to this year's GPSL.

73,

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of L. Paul Verhage
Sent: Monday, June 29, 2009 09:17
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Subject: [GPSL] File Updates [1 Attachment]

[
<http://mail.google.com/mail/?ui=2&view=js&name=js&ver=xWWCalDiPoM.en.&am=!1

cqNLSaoA8C5he3iwbA2wogsKocjD5BIPTV5PLgS#12233330e76a1af1_TopText>
Attachment(s) from L. Paul Verhage included below]

I need everyone to look over my records (in the attached file). Are they're any updates?

Thanks
--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

5510. Re: File Updates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 17:19:09 UTC
From: David
Topic: 5498 Message: 5510

Paul,

I'm sorry, I'm up to a total of four now for the tour and movie. The rest of my family would like to attend these events with me as well. Thanks

David Hoffman - KE4FGW

--- In GPSL@yahoogroups.com, "David" <yahoogroups@...> wrote:
>
> Hello Paul,
>
> Please add two more to your list for attending the Garmin Tour and the conference. My daughter and I would like to go. The group we are with would be UTARC.
>
> David Hoffman - KE4FGW
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@> wrote:
> >
> > I need everyone to look over my records (in the attached file). Are they're
> > any updates?
> >
> > Thanks
> > --
> > Onwards and Upwards,
> > Paul
> >
>

5511. Banner Creek Reservoir

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 17:22:10 UTC
From: Harry M
Topic: 5511 Message: 5511

http://www.kdwp.state.ks.us/news/layout/set/print/content/pdf/9825

Holton - Banner Creek Reservoir
1 ? miles West of Holton, KS
Jackson County 785-364-2891
39.45986 -95.72701
Holton

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

5512. Re: [GPSL] Banner Creek Reservoir

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 17:29:20 UTC
From: Harry M
Topic: 5511 Message: 5512

The previous lat/lon is wrong!
This is a more correct...

39.461321, -95.779366

> Holton - Banner Creek Reservoir
> 1 ? miles West of Holton, KS
> Jackson County 785-364-2891
> 39.45986 -95.72701
> Holton

5513. Fwd: ALPHA 1 ARES Topeka Repeaters

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 18:00:48 UTC
From: L. Paul Verhage
Topic: 5513 Message: 5513

According to Alpha Ares, this is current.

Keith, can you look at thi list and update (if necessary?)

Thanks

You can find a complete list of repeaters on www.kspreater.com

I need a current list of repeaters for the Topeka area. Can Alpha Ares
reply back to this email with that information.

I also need to know if any of the local radio club would like to attend or
help out. Sorry I can't make this week's meeting.

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

5514. BBE and EBBE contacts on 18 July

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 20:18:34 UTC
From: BASE
Topic: 5514 Message: 5514

Dear friends,

I wanted to remind everyone of the possibility of Balloon-Balloon-Earth and Earth-Balloon-Balloon-Earth contacts during our common flight time on 18 July.

I will be flying a cross band repeater for the Scouts at SpaceJam 3. The uplink frequency is 144.36 MHz which I know several of you are using for your APRS tracking. The downlink is 446.025. I'll have the Scouts pay attention to any balloon based APRS traffic that comes down. The radio line of sight distance for two antennae at 70 kft is almost 750 miles, and our balloons will be about 420 miles apart. I plan to launch at 8 am Central Daylight Time (1300 UTC) and use a float valve to stay at 70 kft for a couple of hours. If you launch at 9 am CDT (1400 UTC), we should already be above controlled airspace and waiting for contact. If the winds don't permit floating, I'll launch later and climb slower with burst above 95 kft which might allow direct contact.

I believe the Scouts will be using the call sign of the Troop and Crew 272 which is WB9SA.

If I'm not too busy with the tracking and recovery, you can always try my call sign KC9QBN (yes, I finally took the Tech test.)

I'd appreciate knowing what frequencies and repeaters that any of you might be flying at GPSL.

73,
Howard

5515. Re: [GPSL] BBE and EBBE contacts on 18 July

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-01 23:44:20 UTC
From: BASE
Topic: 5514 Message: 5515

Joe,

We'll be launching from the Chanute Air Museum (formerly Chanute Air Force Base) in Rantoul, IL.

The balloon will be a 1200 gram Kaymont. The float valve is a design prototype from StratoStar systems. As I understand the valve, it communicates via the 2.4 GHz Zigbee with the command radio pod that has the GPS antenna. The valve is set to open (I don't know the exact valve structure, but it seems similar to the WB8ELK valve with a ball held by a string/spring in the open end of the tube) at lower altitude and closes when the ascent rate reaches almost zero feet/minute. The valve and controls are contained in a 3/4 inch tube that fits into the standard neck of the Kaymont balloon. The float valve also has a timer that insures that the valve opens at a preset time limit to serve as an additional cutdown mechanism.

Howard

--- On Wed, 7/1/09, Joe <nss@...> wrote:

> From: Joe <nss@...>
> Subject: Re: [GPSL] BBE and EBBE contacts on 18 July
> To: basedepauw@...
> Date: Wednesday, July 1, 2009, 5:35 PM
>
>
>
>
>
>
>
> Hi! Congratz on the KC9QBN
>
>
>
> Where will your balloon flight originate from?
>
>
>
> What kind of balloon are you using?
>
>
>
> And what comprises of this float valve?
>
>
>

> joe
>
>
>
> BASE wrote:
>
>
> Dear friends,
>
> I wanted to remind everyone of the possibility of
> Balloon-Balloon-Earth and Earth-Balloon-Balloon-Earth
> contacts during our common flight time on 18 July.
>
> I will be flying a cross band repeater for the Scouts at
> SpaceJam 3. The uplink frequency is 144.36 MHz which I know
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> UTC) and use a float valve to stay at 70 kft for a couple of
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> contact. If the winds don't permit floating, I'll
> launch later and climb slower with burst above 95 kft which
> might allow direct contact.
>
> I believe the Scouts will be using the call sign of the
> Troop and Crew 272 which is WB9SA.
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> If I'm not too busy with the tracking and recovery, you
> can always try my call sign KC9QBN (yes, I finally took the
> Tech test.)
>
> I'd appreciate knowing what frequencies and repeaters
> that any of you might be flying at GPSL.
>
> 73,
> Howard
>
>
>
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.375 / Virus Database: 270.13.1/2212 - Release
> Date: 07/01/09 05:53:00
>
>
>
>
>
>

5516. Re: [GPSL] BBE and EBBE contacts on 18 July

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-02 12:12:37 UTC
From: Roger Hammond
Topic: 5514 Message: 5516

Howard,

Congratulations on getting your Technician's Class license!

Roger - KC0MWM
www.cnnsp.org

On Wed, Jul 1, 2009 at 3:18 PM, BASE <basedepauw@...> wrote:

> Dear friends,
>
> I wanted to remind everyone of the possibility of Balloon-Balloon-Earth and
> Earth-Balloon-Balloon-Earth contacts during our common flight time on 18
> July.
>
> I will be flying a cross band repeater for the Scouts at SpaceJam 3. The
> uplink frequency is 144.36 MHz which I know several of you are using for
> your APRS tracking. The downlink is 446.025. I'll have the Scouts pay
> attention to any balloon based APRS traffic that comes down. The radio line
> of sight distance for two antennae at 70 kft is almost 750 miles, and our
> balloons will be about 420 miles apart. I plan to launch at 8 am Central
> Daylight Time (1300 UTC) and use a float valve to stay at 70 kft for a
> couple of hours. If you launch at 9 am CDT (1400 UTC), we should already be
> above controlled airspace and waiting for contact. If the winds don't
> permit floating, I'll launch later and climb slower with burst above 95 kft
> which might allow direct contact.
>
> I believe the Scouts will be using the call sign of the Troop and Crew 272
> which is WB9SA.
>
> If I'm not too busy with the tracking and recovery, you can always try my
> call sign KC9QBN (yes, I finally took the Tech test.)
>
> I'd appreciate knowing what frequencies and repeaters that any of you might
> be flying at GPSL.
>
> 73,
> Howard
>
>
>
>
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

5517. RE: [GPSL] BBE and EBBE contacts on 18 July

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-02 12:23:35 UTC
From: Nick Hanks
Topic: 5514 Message: 5517

Howard,

Congratulations on the tech license!

Nick

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of BASE
Sent: Wednesday, July 01, 2009 17:44
To: Joe; Great Plains Superlaunch
Subject: Re: [GPSL] BBE and EBBE contacts on 18 July

Joe,

We'll be launching from the Chanute Air Museum (formerly Chanute Air Force Base) in Rantoul, IL.

The balloon will be a 1200 gram Kaymont. The float valve is a design prototype from StratoStar systems. As I understand the valve, it communicates via the 2.4 GHz Zigbee with the command radio pod that has the GPS antenna. The valve is set to open (I don't know the exact valve structure, but it seems similar to the WB8ELK valve with a ball held by a string/spring in the open end of the tube) at lower altitude and closes when the ascent rate reaches almost zero feet/minute. The valve and controls are contained in a 3/4 inch tube that fits into the standard neck of the Kaymont balloon. The float valve also has a timer that insures that the valve opens at a preset time limit to serve as an additional cutdown mechanism.

Howard

--- On Wed, 7/1/09, Joe <nss@... <mailto:nss%40mwt.net> > wrote:

> From: Joe <nss@... <mailto:nss%40mwt.net> >
> Subject: Re: [GPSL] BBE and EBBE contacts on 18 July
> To: basedepauw@yahoo. <mailto:basedepauw%40yahoo.com> com
> Date: Wednesday, July 1, 2009, 5:35 PM
>
>
>
>
>
>
>
> Hi! Congratz on the KC9QBN
>
>

>
> Where will your balloon flight originate from?
>
>
>
> What kind of balloon are you using?
>
>
>
> And what comprises of this float valve?
>
>
>
> joe
>
>
>
> BASE wrote:
>
>
> Dear friends,
>
> I wanted to remind everyone of the possibility of
> Balloon-Balloon-Earth and Earth-Balloon-Balloon-Earth
> contacts during our common flight time on 18 July.
>
> I will be flying a cross band repeater for the Scouts at
> SpaceJam 3. The uplink frequency is 144.36 MHz which I know
> several of you are using for your APRS tracking. The
> downlink is 446.025. I'll have the Scouts pay attention
> to any balloon based APRS traffic that comes down. The
> radio line of sight distance for two antennae at 70 kft is
> almost 750 miles, and our balloons will be about 420 miles
> apart. I plan to launch at 8 am Central Daylight Time (1300
> UTC) and use a float valve to stay at 70 kft for a couple of
> hours. If you launch at 9 am CDT (1400 UTC), we should
> already be above controlled airspace and waiting for
> contact. If the winds don't permit floating, I'll
> launch later and climb slower with burst above 95 kft which
> might allow direct contact.
>
> I believe the Scouts will be using the call sign of the
> Troop and Crew 272 which is WB9SA.
>
> If I'm not too busy with the tracking and recovery, you
> can always try my call sign KC9QBN (yes, I finally took the
> Tech test.)
>
> I'd appreciate knowing what frequencies and repeaters
> that any of you might be flying at GPSL.

>
> 73,
> Howard
>
>
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@ <mailto:GPSL-fullfeatured%40yahoogroups.com>
yahoogroups.com
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.375 / Virus Database: 270.13.1/2212 - Release
> Date: 07/01/09 05:53:00
>
>
>
>
>
>

5518. Fw: Ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-02 19:06:24 UTC
From: Ralph Wallio, W0RPK
Topic: 5518 Message: 5518

Thanks Isabel --

I am forwarding your questions to our GPSL e-mail list hoping for comments from others.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Isabel Huff" <izhuff@...>
To: <W??RPK@...>; <RalphWallio@...>
Sent: Thursday, July 02, 2009 11:27
Subject: Ballooning

My name is Isabel and I am a participant in UM-BOREALIS. Like you, we launch and track high-altitude
balloons using amateur radio and GPS Systems.

Did you use WinAPRS for track at all? If so, we have a few questions about it.

What transmitting hardware did you use, and did your packets (latitudes, longitudes, altitudes)
include a timestamp?

Thank you,
Isabel H.
UM-BOREALIS
www.physics.umt.edu/borealis

5519. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-04 16:42:19 UTC
From: Harry M
Topic: 5428 Message: 5519

Paul,

I just spoke with Mark (N5OTD) of NWTI. Instead of a combined flight, ORB and NWTI will be doing one flight each. We will try to launch and track as one team. They will be bringing He for me so I will not need a tank.

Billy (N5QEM) NWTI was going to send you an email. In case he didn't, they will be using 144.340 for APRS.

73 Harry

13 days To GPSL 2009!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5520. Cell Phone coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-04 17:34:01 UTC
From: Harry M
Topic: 5520 Message: 5520

Paul,

In the past we have made available our cell phone numbers with GPSL participants in case we are out of radio range and someone needs help on recovery. I suggest everyone supply you with their number and the list be made available at the lecture. Some, like me, do not want to make their numbers public so I will send mine via private email.

73 Harry

5521. Re: [GPSL] Cell Phone coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-04 19:38:25 UTC
From: Zack Clobes
Topic: 5520 Message: 5521

I won't be flying anything myself, but plan on assisting with recovery.

Zack Clobes, W0ZC (Project: Traveler)
620-960-6898

On Sat, Jul 4, 2009 at 12:34 PM, Harry M <hhm_74115@...> wrote:

>
>
> Paul,
>
> In the past we have made available our cell phone numbers with GPSL
> participants in case we are out of radio range and someone needs help on
> recovery. I suggest everyone supply you with their number and the list be
> made available at the lecture. Some, like me, do not want to make their
> numbers public so I will send mine via private email.
>
> 73 Harry
>
>
>

5522. Re: [GPSL] Cell Phone coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-04 20:14:53 UTC
From: Harry M
Topic: 5520 Message: 5522

Zack,

Is the 9901 still a good number?
I think I had it from a past GPSL.

73 Harry

5523. Re: [GPSL] Cell Phone coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-04 20:23:30 UTC
From: Zack Clobes
Topic: 5520 Message: 5523

Nope. All I have is cell service now.

On Sat, Jul 4, 2009 at 3:14 PM, Harry M <hhm_74115@...> wrote:

>
>
> Zack,
>
> Is the 9901 still a good number?
> I think I had it from a past GPSL.
>
> 73 Harry
>
>
>

5524. Fw: Braq 2009-3

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-05 16:17:36 UTC
From: Ralph Wallio, W0RPK
Topic: 5524 Message: 5524
Attachments: 3 described; binary payloads are missing from this source WARC

Michel -- I am forwarding your questions to our GPSL list hoping for comments from others.
-- Ralph
W0RPK

----- Original Message -----
From: "Michel Graveline" <ve2wmg@...>
To: "'Ralph Wallio, W0RPK'" <W0RPK@...>
Sent: Sunday, July 05, 2009 11:06
Subject: Braq 2009-3

Good morning Ralph

We had to cancelled this the flight for the third time, for a reason other
then rain .

Two different ballons a 350 and a 800 g were found to be bad, those ballon
were about 4 months old as they were purchased from kaymont in March,

They were kept in their original bag in the dark . But I did notice some
unaven color shade .

I was also wandering, why are their not packed in a cardboard box or
something better than a clear plastic bag, if the are sensitive to light ?

I would appreciate your opinion and comments on that as I dont have much
experience.

Thanks

Michel

5525. Re: [GPSL] Fwd: Frequency coordination for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-05 19:25:14 UTC
From: L. Paul Verhage
Topic: 5428 Message: 5525

Okay, here's what I have for gas now and it looks like 10 launches.
**
Helium

NearSys - 1

Bill Brown - 1

NSTAR - 1

EOSS – 2

ARBONET - 2

U Minnesota – 3

ORB – 0

NWTI - 0

Cathcart - 1

Hydrogen

NSV- 1

On Sat, Jul 4, 2009 at 11:42 AM, Harry M <hhm_74115@...> wrote:

>
>
> Paul,
>
> I just spoke with Mark (N5OTD) of NWTI. Instead of a combined flight, ORB
> and NWTI will be doing one flight each. We will try to launch and track as
> one team. They will be bringing He for me so I will not need a tank.
>
> Billy (N5QEM) NWTI was going to send you an email. In case he didn't, they
> will be using 144.340 for APRS.
>
> 73 Harry
>
> 13 days To GPSL 2009!
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join

> -----
>
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>

--
Onwards and Upwards,
Paul

5526. Re: [GPSL] Fw: Braq 2009-3 [3 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-05 23:15:41 UTC
From: Mike Manes
Topic: 5524 Message: 5526

Bon soir, Michel,

Kaymont has been pretty good about shipping balloons in sealed containers to
us. The discoloration is not all that bad, but the cut shown in the 2nd image
is definitely a show-stopper.

Is it possible that the original container was opened for customs inspection?

In any event, I'd urge you to get back with Paul Fetkowitz at Kaymont:

paul@...

and show him those pictures. He's always been very cooperative with
EOSS in resolving shipping issues, not that we've had many.

73 de Mike W5VSI
CTO EOSS

Ralph Wallio, W0RPK wrote:
> Michel -- I am forwarding your questions to our GPSL list hoping for comments from
others. -- Ralph
> W0RPK
>
>
>
> ----- Original Message -----
> From: "Michel Graveline" <ve2wmg@...>
> To: "'Ralph Wallio, W0RPK'" <W0RPK@...>
> Sent: Sunday, July 05, 2009 11:06
> Subject: Braq 2009-3
>
>
>
> Good morning Ralph
>
> We had to cancelled this the flight for the third time, for a reason other
> then rain .
>
> Two different ballons a 350 and a 800 g were found to be bad, those ballon
> were about 4 months old as they were purchased from kaymont in March,
>
> They were kept in their original bag in the dark . But I did notice some
> unaven color shade .
>
> I was also wandering, why are their not packed in a cardboard box or
> something better than a clear plastic bag, if the are sensitive to light ?
>

>
> I would appreciate your opinion and comments on that as I dont have much
> experience.
>
>
>
> Thanks
>
>
>
> Michel
>
>
>
>
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>
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>
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> ------------------------------------
>
> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5527. Re: [GPSL] Topeka Repeaters

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 19:00:03 UTC
From: Harry M
Topic: 1354 Message: 5527

Here's a list of Repeaters and the link to the source of the list.

[Courier New 12pt]

K1IW Amateur Repeater and Broadcast Transmitters Websearch Results
Stations located within 50.0 miles of Topeka, KS
Bands selected: 144,440 Sorted by distance from centerpoint
OFF-AIR repeaters not shown
http://rptr.amateur-radio.net/bin/exec.cgi

CITY	FREQ	PL	CALL	DIST	SPONSOR
Topeka, KS	145.270	88.5	W0CET	0.0	KVARC
Topeka, KS	145.450	88.5	W0CET	0.0	KVARC
Topeka, KS	146.670	88.5	WA0VRS	0.0	911 Top
Topeka, KS	442.025	WA0VRS	0.0	NEKSUN	
Topeka, KS	442.225	88.5	W0CET	0.0	KVARC
Topeka, KS	443.425	WN5HOO	0.0	WN5HOO	
Topeka, KS	444.400	88.5	N0CBG	0.0	GldnCyRA
Topeka, KS	444.975	186.2	N0EUH	0.0	BYRG
Meriden, KS	146.835	N0LFN	12.3N	BARCBADS	
Hoyt, KS	444.725	88.5	K0HAM	14.6N	NEKSUN
Carbondale, KS	147.300	88.5	KB0WTH	15.3S	KB0WTH
Carbondale, KS	443.125	WB0PTD	15.3S	WB0PTD	
Ozawkie, KS	147.060	100.0	KC0OXR	18.1NE	BARCBAD
Overbrook, KS	146.805	WD0DDG	19.4S	WD0DDG	
Overbrook, KS	443.925	K0SUN	19.4S	NEKSUN	
Lawrence, KS	146.760	W0UK	24.2E	DCARC	
Lawrence, KS	147.030	88.5	N0APJ	24.2E	DG CO EP
Lawrence, KS	444.825	N0MJS	24.2E	N0MJS	
Lawrence, KS	444.900	88.5	KU0K	24.2E	NEKSUN
MCLOUTH, KS	444.975	186.2	N0EUH	28.1NE	BYRG
Osage City, KS	146.925	203.5	N0OFG	29.1S	N0OFG
Holton, KS	146.775	AA0MM	29.8N	JacksonARC	
Miller, KS	147.345	KA0WOK	32.5SW	KA0WOK	
Effingham, KS	146.610	K0DXY	37.0NE	ACARS	
Ottawa, KS	147.390	W0QW	37.5SE	OttawaARA	
Basehor, KS	145.390	88.5	K0HAM	41.1E	NEKSUN
Basehor, KS	443.550	N0GRQ	41.1E	N0GRQ	
Basehor, KS	443.650	K0SUN	41.1E	NEKSUN	
Edgerton, KS	442.475	WB0OUE	41.4SE	WB0OUE	
Leavenworth,	145.330	N0KOA	45.3NE	WB0YNE	
Leavenworth,	147.000	151.4	KS0LV	45.3NE	PKARC
Leavenworth,	442.350	107.2	N0MIJ	45.3NE	BYRG
Leavenworth,	444.800	151.4	W0ROO	45.3NE	PKARC
Olathe, KS	145.470	151.4	K0ECS	49.1SE	JoCoECS

Olathe, KS 147.240 151.4 KA0FMZ 49.1SE SFTARC
Olathe, KS 442.200 151.4 KE5BR 49.1SE SFTARC
Manhattan, KS 145.410 W0QQQ 49.5NW KSU ARC
Manhattan, KS 147.225 114.8 KS0LNK 49.5NW K-Link
Manhattan, KS 147.255 KS0MAN 49.5NW MAARS
Manhattan, KS 444.175 88.5 W0QQQ 49.5NW KSU ARC
Manhattan, KS 444.525 88.5 N0UJQ 49.5NW K-Link
Shawnee, KS 145.210 WB0HAC 49.9E SRACT

5528. Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 19:20:09 UTC
From: L. Paul Verhage
Topic: 5528 Message: 5528

Can we get input from everyone on the tracker frequencies they plan to use?
I'd like to use 144.39. I can set my transmit time (I believe I am
currently using :15 and :45)

--
Onwards and Upwards,
Paul

5529. Re: [GPSL] Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 19:34:42 UTC
From: Mark Conner
Topic: 5528 Message: 5529

NSTAR will be using 144.36 MHz for its main tracker and 144.39 MHz for the backup (once per minute). I can time slot both.

73 de Mark N9XTN

On Mon, Jul 6, 2009 at 14:20, L. Paul Verhage <nearsys@...> wrote:

>
>
> Can we get input from everyone on the tracker frequencies they plan to
> use? I'd like to use 144.39. I can set my transmit time (I believe I am
> currently using :15 and :45)
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

5530. Re: [GPSL] Topeka Repeaters

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 20:38:36 UTC
From: Harry M
Topic: 1354 Message: 5530

The link should be... http://rptr.amateur-radio.net

> Here's a list of Repeaters and the link to the source of the list.

5531. RE: [GPSL] Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 21:23:32 UTC
From: Nick Hanks
Topic: 5528 Message: 5531

EOSS can run on 144.39 at 0: and 30: past the minute. Or move to another freq if there are others being I-gated.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, July 06, 2009 13:20
To: gpsl@yahoogroups.com
Subject: [GPSL] Frequencies

Can we get input from everyone on the tracker frequencies they plan to use? I'd like to use 144.39. I can set my transmit time (I believe I am currently using :15 and :45)

--
Onwards and Upwards,
Paul

5532. RE: Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 22:18:37 UTC
From: wa8rc
Topic: 5528 Message: 5532

Paul,

We plan on using the following tracking frequencies:

144.930 for primary tracking - time slot at 0 & 30 seconds.

144.990 for Secondary tracking - time slot at 30 seconds.

Primary tracker is freq agile
Secondary has limited freq agility

No other RF planned except for low power uhf beacon on 433.975

Ron Cathcart
Michigan Boys

5533. Re: [GPSL] RE: Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-06 23:10:31 UTC
From: Harry M
Topic: 5528 Message: 5533

I had posted this once before, so in case it got lost, here it is again.

ORB would like to use 144.340 xmt / 144.240 rcv
No time slot and transmitting every 30 seconds.
The .240 rcv only is for cutdown.

Harry KC5TRB

5534. 2009 GPSL T-shirt available on Zazzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-07 19:06:16 UTC
From: Mark Conner
Topic: 5534 Message: 5534
Attachments: 1 described; binary payloads are missing from this source WARC

GPSL attendees (and others who might be interested),

The GPSL 2009 shirt is now ready for ordering. Go to this link:

http://www.zazzle.com/gpsl_2009_t_shirt-235625382377116629

Please note you will need to 'customize' the front of the shirt with your name and/or callsign. Otherwise you'll get a shirt that says "Your Name and Callsign Here" printed on the front!

You should probably order the shirt within a day or two to ensure delivery to your home before GPSL. If you start to run close on time, you may be able to have it sent to your hotel instead. Sorry for not having it done sooner - it's been a busy couple of weeks.

Any questions, please let me know.

73 de Mark N9XTN

5535. Minor revision to GPSL shirt

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-07 23:32:16 UTC
From: Mark Conner
Topic: 5535 Message: 5535

I made a change to the GPSL shirt design which will automatically center the name/call on the front's design. However, this required a new URL to go to it:

http://www.zazzle.com/gpsl_2009_t_shirt-235972689778513358

If the link fails, put "GPSL 2009" in the search box at the main site (http://www.zazzle.com).

73 de Mark N9XTN

5536. SPY Video Pen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 00:49:14 UTC
From: Harry M
Topic: 5536 Message: 5536

Hmmm..... Balloon "spy cam"?
NEW 8GB spy video/voice/photo camcorder pen 30FPS

http://cgi.ebay.com/NEW-8GB-spy-video-voice-photo-camcorder-pen-30FPS_W0QQcmdZViewItemQQ_trkparmsZ65Q3a1Q7c66Q3a1Q7c39Q3a1Q7c293Q3a2Q7c294Q3a25QQ_trksidZp3911Q2ec0Q2em14QQhashZitem29ff32fd02QQitemZ180375190786QQptZLHQ5fDefaultDomainQ5f0QQsalenotsupported

5537. Re: [GPSL] SPY Video Pen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 04:26:41 UTC
From: Mike Manes
Topic: 5536 Message: 5537

Hmmm - wonder what the shipping charge from China might come to.
Let us know how it works for ya, Harry!
73 de Mike W5VSI

Harry M wrote:
>
>
> Hmmm..... Balloon "spy cam"?
>
>
> NEW 8GB spy video/voice/photo camcorder pen 30FPS
>
>
> http://cgi.ebay.com/NEW-8GB-spy-video-voice-photo-camcorder-pen-30FPS_W0QQcmdZViewItemQQ
_trkparmsZ65Q3a1Q7c66Q3a1Q7c39Q3a1Q7c293Q3a2Q7c294Q3a25QQ_trksidZp3911Q2ec0Q2em14QQhashZit
em29ff32fd02QQitemZ180375190786QQptZLHQ5fDefaultDomainQ5f0QQsalenotsupported
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5538. [Fwd: Fwd: FW: space station]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 04:46:42 UTC
From: Mike Manes
Topic: 5538 Message: 5538

Kinda like assembling a student payload flight :=}.

-------- Original Message --------
Subject: Fwd: FW: space station
Date: Mon, 6 Jul 2009 22:06:58 -0400
From: Bill Bradford <bthetiger@...>
To: Bill Bradford <bthetiger@...>
References: <871A8D51352A41A1A536E09D93967D03@SLsLaptop>

---------- Forwarded message ----------

This is very cool and a wonderment.

//S.//

> The most complicated construction project of all time!

> http://i.usatoday.net/tech/graphics/iss_timeline/flash.htm

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5539. Re: [GPSL] SPY Video Pen

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 04:05:26 UTC
From: Harry M
Topic: 5536 Message: 5539

US $20.00
Standard Flat Rate Shipping Service
Service to United States

Hey Mike,

I'm not planning on getting one just yet!
It is tempting though. ;)

C Ya'll next week!

73 Harry

5540. RE: [GPSL] Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 12:25:47 UTC
From: Nick Hanks
Topic: 5528 Message: 5540

A slip of the pen. I should have said

EOSS can run on 144.34 at 0: and 30: past the minute. Or move
to another freq if there are others being I-gated.

Nick

EOSS

From: Nick Hanks [mailto:ndhanks@...]
Sent: Monday, July 06, 2009 15:24
To: 'GPSL@yahoogroups.com'
Subject: RE: [GPSL] Frequencies

EOSS can run on 144.39 at 0: and 30: past the minute. Or move to another
freq if there are others being I-gated.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L.
Paul Verhage
Sent: Monday, July 06, 2009 13:20
To: gpsl@yahoogroups.com
Subject: [GPSL] Frequencies

Can we get input from everyone on the tracker frequencies they plan to use?
I'd like to use 144.39. I can set my transmit time (I believe I am
currently using :15 and :45)

--
Onwards and Upwards,
Paul

5541. Topeka Repeater

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-08 17:11:37 UTC
From: Harry M
Topic: 5541 Message: 5541

Has it been decided on a Topeka repeater for talk-in/chat?
I don't see one on the Web site.

73 Harry KC5TRB

5542. Call in Frequency

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 03:37:42 UTC
From: L. Paul Verhage
Topic: 5542 Message: 5542

We'll use the 145.27 repeater for call in.

--
Onwards and Upwards,
Paul

5543. Re: [GPSL] RE: Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 15:20:13 UTC
From: Harry M
Topic: 5528 Message: 5543

> ORB would like to use 144.340 xmt / 144.240 rcv

I will set my tracker to time slot at 10 sec past the minute.
This will resolve any conflicts. I think NWTI will also
be using 144.340. I will request that they slot at 15 sec
past the minute. I should hear from them this weekend.

Harry KC5TRB

5544. Re: [GPSL] RE: Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 15:37:03 UTC
From: Harry M
Topic: 5528 Message: 5544

I just spoke with Mark N5OTD (NWTI) and they
will use 144.340 slotted at 15 past the minute.
Mark will verify that in an email to this list tomorrow.

Harry KC5TRB

5545. Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 16:01:19 UTC
From: L. Paul Verhage
Topic: 5545 Message: 5545

Here's what I have so far. Please let me know what needs to be changed and I'll report again.
--
Onwards and Upwards,
Paul

Frequencies

NSTAR will be using 144.36 MHz for its main tracker and 144.39 MHz for the backup (once per minute). I can time slot both.

EOSS can run on 144.39 at 0: and 30: past the minute. Or move to another freq if there are others being I-gated.

NearSys will use 144.39. I can set my transmit time (I believe I am currently using :15 and :45)

144.930 for primary tracking - time slot at 0 & 30 seconds.

144.990 for Secondary tracking - time slot at 30 seconds.

Primary tracker is freq agile

Secondary has limited freq agility

No other RF planned except for low power uhf beacon on 433.975

Ron Cathcart

ORB would like to use 144.340 xmt / 144.240 rcv

No time slot and transmitting every 30 seconds.

The .240 rcv only is for cutdown.

K0NMS on 144.99

I will set my tracker to time slot at 10 sec past the minute.

This will resolve any conflicts. I think NWTI will also

be using 144.340. I will request that they slot at 15 sec

past the minute. I should hear from them this weekend.

Harry KC5TRB

I just spoke with Mark N5OTD (NWTI) and they

will use 144.340 slotted at 15 past the minute.

Mark will verify that in an email to this list tomorrow.

5546. RE: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 16:08:26 UTC
From: Nick Hanks
Topic: 5545 Message: 5546

Hi Paul,

Made a mistake on the EOSS submission. Should have been 144.34 MHz at :00 and :30. We can move to another frequency if needed. Need to know that by Sunday please.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, July 09, 2009 10:01
To: gpsl@yahoogroups.com
Subject: [GPSL] Tracking Frequencies

Here's what I have so far. Please let me know what needs to be changed and I'll report again.

--
Onwards and Upwards,
Paul

Frequencies

NSTAR will be using 144.36 MHz for its main tracker and 144.39 MHz for the backup (once per minute). I can time slot both.

EOSS can run on 144.39 at 0: and 30: past the minute. Or move to another freq if there are others being I-gated.

NearSys will use 144.39. I can set my transmit time (I believe I am currently using :15 and :45)

144.930 for primary tracking - time slot at 0 & 30 seconds.

144.990 for Secondary tracking - time slot at 30 seconds.

Primary tracker is freq agile

Secondary has limited freq agility

No other RF planned except for low power uhf beacon on 433.975

Ron Cathcart

ORB would like to use 144.340 xmt / 144.240 rcv

No time slot and transmitting every 30 seconds.

The .240 rcv only is for cutdown.

K0NMS on 144.99

I will set my tracker to time slot at 10 sec past the minute.

This will resolve any conflicts. I think NWTI will also

be using 144.340. I will request that they slot at 15 sec

past the minute. I should hear from them this weekend.

Harry KC5TRB

I just spoke with Mark N5OTD (NWTI) and they

will use 144.340 slotted at 15 past the minute.

Mark will verify that in an email to this list tomorrow.

5547. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 16:46:36 UTC
From: Harry M
Topic: 5545 Message: 5547

Paul,

I spoke with Nick (EOSS) and it looks like this for 144.340 so far.

EOSS 144.340 slotted @ 0 & 30
ORB 144.340 slotted @ 7
NWTI 144.340 slotted @ 15

This still leaves room for someone else to use the freq.

We also discussed the open slot for presentation-7 and thought it would be a good idea to have an open discussion on balloon born video. Start the discussion and call up to the podium anyone that has flown video and talk on the equipment and setup they have used.

Nick also mentioned a third launch site that I do not see on the web site.

73 Harry KC5TRB

5548. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 16:48:36 UTC
From: Harry M
Topic: 5545 Message: 5548

> ORB 144.340 slotted @ 7
> NWTI 144.340 slotted @ 15

CORRECTION

ORB 144.340 slotted @ 7 & 37
NWTI 144.340 slotted @ 15 & 45

5549. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-09 18:10:08 UTC
From: L. Paul Verhage
Topic: 5545 Message: 5549

Updated the frequencies. Also added added the video discussion as the 7th presentation.

There is no third site. I had to replace the back up with a back up of the back up.

Paul

On Thu, Jul 9, 2009 at 11:48 AM, Harry M <hhm_74115@...> wrote:

> > ORB 144.340 slotted @ 7
> > NWTI 144.340 slotted @ 15
>
> CORRECTION
>
> ORB 144.340 slotted @ 7 & 37
> NWTI 144.340 slotted @ 15 & 45
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

5550. Proposed ATV system for Ballooning Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 01:08:26 UTC
From: BASE
Topic: 5550 Message: 5550

Dear friends,

I need your feedback concerning the following ATV communication system for the BASE 38 balloon flight at SpaceJam-3 on 18 July.

The proposed system will use:

Z70A 4 Channel 70cm ATV Transmitter from P.C. Electronics

http://www.hamtv.com/videolynx.html#Z70A

The power output is 50-100 mW.

The transmit antenna will be a little wheel, a la EOSS.

http://www.hamtv.com/wheel.html

Have any of you used the ground reflector described at the end of the web page? It seems like it could be a critical addition.

The Ground Station will be a Sat/Comm setup with M2 circularly
polarized Beam antennas, SSB preamp, a VCR with Cable 58 in and ch 3
out (we will record with the VCR), and put the video out on a 32" big
Screen TV.

Current predicts will keep the flight path fairly short(30 mi/50 km) till burst. Ralph Wallio's spreadsheets (see http://showcase.netins.net/web/wallio/LINKbudget.html and http://showcase.netins.net/web/wallio/SNT.html) to calculate link budget and system noise temperature have led me to see your input.

Thanks for any and all thoughts,
Howard

5551. Re: [GPSL] Proposed ATV system for Ballooning Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 01:17:42 UTC
From: Zack Clobes
Topic: 5550 Message: 5551

We've used the HamTV transmitter with good success. The best luck that we had was an APRS payload, with four load lines going down through a Little Wheel (home made antenna that was sandwiched between two sheets of blue or pink Styrofoam), then down to an ATV payload. We separated the Little Wheel from the payloads, because we had a lot of problems with the 440 video desensing the GPS receiver. We sandwiched the antenna in the Styrofoam to give it some rigidity and to protect it.

On the ground, we played with different antennas including those circular satellite antennas (can't think of what they're called right now - they have a reflector and a helical coil that's driven), but in the end, we found the highest gain beam we could afford to be best - the balloon moves and rotates so no matter what polarity you receive in, it's going to be wrong.

Zack Clobes, W0ZC

On Thu, Jul 9, 2009 at 8:08 PM, BASE <basedepauw@...> wrote:

>
>
>
> Dear friends,
>
> I need your feedback concerning the following ATV communication system for
> the BASE 38 balloon flight at SpaceJam-3 on 18 July.
>
> The proposed system will use:
>
> Z70A 4 Channel 70cm ATV Transmitter from P.C. Electronics
>
> http://www.hamtv.com/videolynx.html#Z70A
>
> The power output is 50-100 mW.
>
> The transmit antenna will be a little wheel, a la EOSS.
>
> http://www.hamtv.com/wheel.html
>
> Have any of you used the ground reflector described at the end of the web
> page? It seems like it could be a critical addition.
>
> The Ground Station will be a Sat/Comm setup with M2 circularly
> polarized Beam antennas, SSB preamp, a VCR with Cable 58 in and ch 3
> out (we will record with the VCR), and put the video out on a 32" big
> Screen TV.
>

> Current predicts will keep the flight path fairly short(30 mi/50 km) till
> burst. Ralph Wallio's spreadsheets (see
> http://showcase.netins.net/web/wallio/LINKbudget.html and
> http://showcase.netins.net/web/wallio/SNT.html) to calculate link budget
> and system noise temperature have led me to see your input.
>
> Thanks for any and all thoughts,
> Howard
>
>
>

5552. Re: [GPSL] Proposed ATV system for Ballooning Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 01:23:39 UTC
From: Joe
Topic: 5550 Message: 5552

Howdy base,

Thoughts,

In my opinion the 50 to 100 mw ATV sig, at 30 miles I'm thinking might be pushing it. We usually run 3 watts, and get decent pictures out to 100 miles. but 100 mw is a far cry from 3000 mw.

The reflector is a good Idea, xcept we don't go for the short distance as seen there, we don't need a super strong signal directly under the payload, Thats the shortest distance. we usually go 5/8 wave spacing, this provides a decent lobe out towards the horizon, and a small lobe directluy under the payload.

MY BIGGEST concern is to test your equipment first. hook it up, and make sure it will record SNOW! no ATV signal. Just set the recorder on freq, and hit record. and make sure it can record snow. we went through dozens of them not to find a single one anymore that will record snow. Most,, well actually everyone that was less than 5 years old would NOT do this if the signal is not strong it goes to blue screen.

And on a ATV balloon flight this is fatal. If you can not record Snow, you won't be recording much of any of the flighht.

Joe WB9SBD
Near Space Sciences

BASE wrote:

>Dear friends,
>
>I need your feedback concerning the following ATV communication system for the BASE 38 balloon flight at SpaceJam-3 on 18 July.
>
>The proposed system will use:
>
>Z70A 4 Channel 70cm ATV Transmitter from P.C. Electronics
>
>http://www.hamtv.com/videolynx.html#Z70A
>
>The power output is 50-100 mW.
>
>The transmit antenna will be a little wheel, a la EOSS.
>
>http://www.hamtv.com/wheel.html
>
>Have any of you used the ground reflector described at the end of the web page? It seems

like it could be a critical addition.
>
>The Ground Station will be a Sat/Comm setup with M2 circularly
>polarized Beam antennas, SSB preamp, a VCR with Cable 58 in and ch 3
>out (we will record with the VCR), and put the video out on a 32" big
>Screen TV.
>
>Current predicts will keep the flight path fairly short(30 mi/50 km) till burst. Ralph
Wallio's spreadsheets (see http://showcase.netins.net/web/wallio/LINKbudget.html and
>http://showcase.netins.net/web/wallio/SNT.html) to calculate link budget and system noise
temperature have led me to see your input.
>
>Thanks for any and all thoughts,
>Howard
>
>
>
>
>
>----------
>
>Yahoo! Groups Links
>
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>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.387 / Virus Database: 270.13.9/2228 - Release Date: 07/09/09 18:07:00
>
>
>

5553. Re: [GPSL] Proposed ATV system for Ballooning Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 04:35:10 UTC
From: Mike Manes
Topic: 5550 Message: 5553

Hi Howard,

That's a pretty puny xmtr for getting a decent signal beyond 10 or 20 miles downrange. EOSS uses a 1W KPA-5 with an 18 dB yagi and 1 dB LNA, and our signal drops to P3 at about 50 miles downrange.

We don't use a ground plane above our little wheel, since by the time we get far downrange and in descent, we need max signal straight out to the side; the ground plane aims the main lobe downward 10 or so degrees.

The little wheel is strictly a horizontally polarized antenna, so using a CP ground station antenna will only hurt your SNR, since it will be picking up sky noise up to 3 dB above what you'd get from a simple horizontal yagi. The good news is that you can simply disconnect the phasing harness and connect your feedline directly to the horizontal yagi.

I'm not sure what the noise figure of your Ch 58 TV set might be, but it's quite likely to be poorer than what you'd get from a PCE GaAs 70 cm downconverter. And the PCE xmit freq isn't dead on cable Ch 58, so if your TV set doesn't have a wide AFC range, you may lose the signal as it gets noisier.

Aren't you glad you asked (not)? :=P

73 de Mike W5VSI
CTO EOSS

BASE wrote:
> Dear friends,
>
> I need your feedback concerning the following ATV communication system for the BASE 38 balloon flight at SpaceJam-3 on 18 July.
>
> The proposed system will use:
>
> Z70A 4 Channel 70cm ATV Transmitter from P.C. Electronics
>
> http://www.hamtv.com/videolynx.html#Z70A
>
> The power output is 50-100 mW.
>
> The transmit antenna will be a little wheel, a la EOSS.
>
> http://www.hamtv.com/wheel.html
>
> Have any of you used the ground reflector described at the end of the web page? It seems like it could be a critical addition.

>
> The Ground Station will be a Sat/Comm setup with M2 circularly
> polarized Beam antennas, SSB preamp, a VCR with Cable 58 in and ch 3
> out (we will record with the VCR), and put the video out on a 32" big
> Screen TV.
>
> Current predicts will keep the flight path fairly short(30 mi/50 km) till burst.
Ralph Wallio's spreadsheets (see
http://showcase.netins.net/web/wallio/LINKbudget.html
and http://showcase.netins.net/web/wallio/SNT.html) to calculate link budget
and system
noise temperature have led me to see your input.
>
> Thanks for any and all thoughts,
> Howard
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5554. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 10:23:11 UTC
From: wb8elk@aol.com
Topic: 5545 Message: 5554

Paul,

I would like to use 144.39 timeslotted to :42 seconds once a minute. -
WB8ELK-11

If there is an available sequence on 144.36, I can also do 144.36 MHz
but will be a 10 second sequence of DominoEX once a minute.

Also planning on 50.080 MHz CW / DominoEX

Possible 433.92 MHz as well.

- Bill WB8ELK
**********A Good Credit Score is 700 or Above. See yours in just 2 easy
steps!
(http://pr.atwola.com/promoclk/100126575x1221323031x1201367232/aol?redir=http://www.freecr
editreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=
JulystepsfooterNO62)

5555. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 10:25:22 UTC
From: wb8elk@aol.com
Topic: 5545 Message: 5555

For presentation 7 if you all want something on airborne TV...I can also put in a few words and slides on that topic.

- Bill WB8ELK

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1221323031x1201367232/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=JulystepsfooterNO62)

5556. Re: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 16:08:26 UTC
From: Mark Conner
Topic: 5545 Message: 5556

Bill,

So far I think I'm the only other user on 144.36. Let me know what
10-second window you'd like and I'll program mine around it.

73 de Mark N9XTN

On Fri, Jul 10, 2009 at 05:23, <wb8elk@...> wrote:

>
>
> Paul,
>
> I would like to use 144.39 timeslotted to :42 seconds once a minute. -
> WB8ELK-11
>
> If there is an available sequence on 144.36, I can also do 144.36 MHz but
> will be a 10 second sequence of DominoEX once a minute.
>
> Also planning on 50.080 MHz CW / DominoEX
>
> Possible 433.92 MHz as well.
>
> - Bill WB8ELK
>
> ------------------------------
> *A Good Credit Score is 700 or Above. See yours in just 2 easy steps!<http://pr.atwola.c
om/promoclk/100126575x1221323031x1201367232/aol?redir=http://www.freecreditreport.com/pm/d
efault.aspx?sc=668072%26hmpgID=62%26bcd=JulystepsfooterNO62>
> *
>
>
>
>

5557. NWTI Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 19:23:28 UTC
From: Mark Huffman
Topic: 5557 Message: 5557

We will be using 144.34 time slotted at 15 and 45, as KC0TRB stated. We will also have a secondary transmitter on 144.390.

See ya there
Mark Huffman, N5OTD

5558. NWTI timeslot for 144.390

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 20:24:38 UTC
From: Mark Huffman
Topic: 5558 Message: 5558

We would like to use a time slot of 10 after the minute on 144.390, any problem, please let me know.

Mark Huffman, N5OTD
Northwest Technical Institute

5559. RE: [GPSL] Tracking Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 21:23:37 UTC
From: Nick Hanks
Topic: 5545 Message: 5559

Hi Paul,

Didn't see our correction on EOSS flying on 144.34 slotted at :00 and :30.

Thanks.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, July 09, 2009 12:10
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Tracking Frequencies

Updated the frequencies. Also added added the video discussion as the 7th presentation.

There is no third site. I had to replace the back up with a back up of the back up.

Paul

On Thu, Jul 9, 2009 at 11:48 AM, Harry M <hhm_74115@cox. <mailto:hhm_74115@...> net> wrote:

> ORB 144.340 slotted @ 7
> NWTI 144.340 slotted @ 15

CORRECTION

ORB 144.340 slotted @ 7 & 37
NWTI 144.340 slotted @ 15 & 45

Yahoo! Groups Links

(Yahoo! ID required)

yahoogroups.com

--
Onwards and Upwards,
Paul

5560. Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 22:05:35 UTC
From: Harry M
Topic: 5560 Message: 5560

Can the dataset used for the prediction on the GPSL website be listed? I'm currently using GFSlr_TOP_192_1200Z and that is putting landing SE of Princeton and NE of Richmond for the same alt/asc/des.

Harry KC5TRB

5561. NSTAR time slot on 144.39

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 22:30:19 UTC
From: Mark Conner
Topic: 5561 Message: 5561

NSTAR will be using :50 on 144.39. Also, if anyone else besides
WB8ELK is planning to use 36, let us know so that can be deconflicted.

73 de Mark N9XTN

--
Sent from my mobile device

5562. Re: [GPSL] Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 22:42:32 UTC
From: Keith Kaiser
Topic: 5560 Message: 5562

Not real sure what your asking. If it is "show me the data from
NOAA", there's a link called:

Raw text of ARL READY report.

On the last page. That will give the data the system used to
calculate with.

Does this help?

On Jul 10, 2009, at 5:05 PM, Harry M wrote:

>
>
>
> Can the dataset used for the prediction on the GPSL website be
> listed? I'm currently using GFSlr_TOP_192_1200Z and that is putting
> landing SE of Princeton and NE of Richmond for the same alt/asc/des.
>
> Harry KC5TRB
>
>
>

73's
Keith Kaiser
wa0tjt@...

5563. SpaceJam-3 ATV update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 22:45:52 UTC
From: BASE
Topic: 5563 Message: 5563

Dear friends,

Thanks again for the many notes, both on group and directly, about the ATV flight with the Scouts (BASE 38).

Based on the recommendations, we are changing several factors:

1. Will use the VM-70X transmitter from P.C. Electronics with the power between 1 and 2 Watts. I will use a large heat sink on the transmitter.

2. Transmit frequency will be 439.25MHz (channel 60)

Calculations from Ralph's pages indicate we should have between P3 and P4 quality video at 50 km.

73
Howard
KC9QBN

5564. Re: [GPSL] Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 22:53:25 UTC
From: Harry M
Topic: 5560 Message: 5564

Hi Keith,

I do see that the GFSlr for TOP is being used. I don't need to see the data as I have it. What hour z dataset is used. There is a big descrepancy between my prediction and yours. My last pred. used the 1200z dataset.

73 Harry

5565. Re: [GPSL] Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 23:22:29 UTC
From: Keith Kaiser
Topic: 5560 Message: 5565

I'm not sure a prediction this far out is meaningful but for the past two days I've used the 1800 UTC. It is the closest to our proposed launch time but as we get closer to the date I'll move it up to eventually the 1500 or even better if possible.

On Jul 10, 2009, at 5:53 PM, Harry M wrote:

>
>
>
> Hi Keith,
>
> I do see that the GFSlr for TOP is being used. I don't need to see
> the data as I have it. What hour z dataset is used. There is a big
> descrepancy between my prediction and yours. My last pred. used the
> 1200z dataset.
>
> 73 Harry
>
>

73's
Keith Kaiser
wa0tjt@...

5566. Re: [GPSL] Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-10 23:45:56 UTC
From: Harry M
Topic: 5560 Message: 5566

I'm aware that the pred. will probly not be very accurate this far out. I was only comparing the web based pred. and mine using BalTrak.

73 Harry

5567. Re: [GPSL] SpaceJam-3 ATV update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-11 00:29:01 UTC
From: Zack Clobes
Topic: 5563 Message: 5567

I have one of their transmitters with the camera, video overlay, and I
believe it has the ~1W amp too. If you'd like to borrow it, just let me
know.

Zack Clobes, W0ZC
Project: Traveler

On Fri, Jul 10, 2009 at 5:45 PM, BASE <basedepauw@...> wrote:

>
>
>
> Dear friends,
>
> Thanks again for the many notes, both on group and directly, about the ATV
> flight with the Scouts (BASE 38).
>
> Based on the recommendations, we are changing several factors:
>
> 1. Will use the VM-70X transmitter from P.C. Electronics with the power
> between 1 and 2 Watts. I will use a large heat sink on the transmitter.
>
> 2. Transmit frequency will be 439.25MHz (channel 60)
>
> Calculations from Ralph's pages indicate we should have between P3 and P4
> quality video at 50 km.
>
> 73
> Howard
> KC9QBN
>
>
>

5568. Re: [GPSL] Web Flight Prediction

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-11 02:54:26 UTC
From: Mark Conner
Topic: 5560 Message: 5568

I ran one online just now using today's 18Z model output and the forecast for next Saturday at 18Z and got a bearing of 131 degrees and distance of 51 miles, using 1000 up/1000 down/90,000 burst. Seems OK from the wind profile.

By next Tuesday or so it'll start settling down and offering something useful. However, the upper level forecasts are consistently indicating northwesterly flow but varying in speed. In general I think we're looking at a SE track of some flavor, and perhaps more distance than we're used to seeing in mid-July. It would be nice for the helium transport issue if we can fly from Topeka.

73 de Mark N9XTN

On Fri, Jul 10, 2009 at 18:45, Harry M <hhm_74115@...> wrote:

> I'm aware that the pred. will probly not be very accurate this far out. I
> was only comparing the web based pred. and mine using BalTrak.
>
> 73 Harry
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

5569. Re: [GPSL] Garmin

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 14:22:22 UTC
From: Keith Kaiser
Topic: 5330 Message: 5569

Paul,

Is this still the plan?

On May 27, 2009, at 8:53 PM, L. Paul Verhage wrote:

>
>
>
> I recommend we meet at the Pizza Shoppe across the street from
> Garmin at 11 AM. It's on the southwest corner of 151st st. and
> Ridgeview. After lunch we can drive across the street to the Garmin
> parking lot in fewer cars.
>
> Be careful at the 151st st. exit on K-7. It's also where you get
> onto I-35.
>
> There's a mall (The Great Mall of the Great Plains) on 151st west of
> Garmin. If you're bringing someone who doesn't want to go on the
> tour, they could drive to the mall.
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5570. Re: [GPSL] Garmin

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 15:52:43 UTC
From: Bruce Coates
Topic: 5330 Message: 5570

Hi Everyone

Is anyone interested in car pooling for the Garmin tour? My wife and I are staying at the Motel 6 in Topeka. We'd be glad to chip in for the travel cost if someone else is driving anyway.

See everyone next week

Bruce & Leigh
VE5BNC & VE5LEE

----- Original Message -----
From: Keith Kaiser
To: GPSL@yahoogroups.com
Sent: Sunday, July 12, 2009 8:22 AM
Subject: Re: [GPSL] Garmin

Paul,

Is this still the plan?

On May 27, 2009, at 8:53 PM, L. Paul Verhage wrote:

I recommend we meet at the Pizza Shoppe across the street from Garmin at 11 AM. It's on the southwest corner of 151st st. and Ridgeview. After lunch we can drive across the street to the Garmin parking lot in fewer cars.

5571. Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:04:17 UTC
From: L. Paul Verhage
Topic: 5571 Message: 5571

Here's what I recorded for launch site coordintes

Primary: Mission Valley HS 38 deg 53.162' N and 96 deg 00.040' W

Secondary: Banner Creek 39 deg 27.685' N and 95 deg 46.760' W
Everyone can start using those for predictions

--
Onwards and Upwards,
Paul

5572. Re: [GPSL] Garmin

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:06:33 UTC
From: L. Paul Verhage
Topic: 5330 Message: 5572

This is still the plan, to meet everyone at the Pizza Shoppe for lunch at 11 and then head over to Garmin at 1. they're across the street from each other.

Paul

On Sun, Jul 12, 2009 at 10:52 AM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Everyone
>
> Is anyone interested in car pooling for the Garmin tour? My wife and I are
> staying at the Motel 6 in Topeka. We'd be glad to chip in for the travel
> cost if someone else is driving anyway.
>
> See everyone next week
>
> Bruce & Leigh
> VE5BNC & VE5LEE
>
>
> ----- Original Message -----
> *From:* Keith Kaiser <wa0tjt@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sunday, July 12, 2009 8:22 AM
> *Subject:* Re: [GPSL] Garmin
>
> Paul,
> Is this still the plan?
>
>
> On May 27, 2009, at 8:53 PM, L. Paul Verhage wrote:
>
>
>
>
>
>
> I recommend we meet at the Pizza Shoppe across the street from Garmin at 11
> AM. It's on the southwest corner of 151st st. and Ridgeview. After lunch
> we can drive across the street to the Garmin parking lot in fewer cars.
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

5573. Re: [GPSL] Garmin

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:07:24 UTC
From: L. Paul Verhage
Topic: 5330 Message: 5573

Keith, can you post a map around the Garmin area on the website?
Paul

On Sun, Jul 12, 2009 at 9:22 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Paul,
> Is this still the plan?
>
>
> On May 27, 2009, at 8:53 PM, L. Paul Verhage wrote:
>
>
>
>
>
> I recommend we meet at the Pizza Shoppe across the street from Garmin at 11
> AM. It's on the southwest corner of 151st st. and Ridgeview. After lunch
> we can drive across the street to the Garmin parking lot in fewer cars.
>
> Be careful at the 151st st. exit on K-7. It's also where you get onto
> I-35.
>
> There's a mall (The Great Mall of the Great Plains) on 151st west of
> Garmin. If you're bringing someone who doesn't want to go on the tour, they
> could drive to the mall.
>
> --
> Onwards and Upwards,
> Paul
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
>
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>
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>
>

--
Onwards and Upwards,
Paul

5574. Re: [GPSL] Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:19:00 UTC
From: Harry M
Topic: 5571 Message: 5574

I thought the primary launch site was at Kaw.
So there has been a change in plans?

> Here's what I recorded for launch site coordintes
> Primary: Mission Valley HS 38 deg 53.162' N and 96 deg 00.040' W
> Secondary: Banner Creek 39 deg 27.685' N and 95 deg 46.760' W

5575. Re: [GPSL] Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:40:27 UTC
From: Mark Conner
Topic: 5571 Message: 5575
Attachments: 1 described; binary payloads are missing from this source WARC

Decimal conversion for prediction programs:

Mission Valley: 38.886033,-96.000667
Banner Creek: 39.461417,-95.779333

KATS is within 5-6 miles of both Topeka Muni and Forbes Field ANG Base, so it's probably better that we use something out of town for this many balloons.

I attached a prediction from this morning's GFS run. The hook to the west will probably be sharper and farther west than the prediction says - the wind details above 50,000 ft are pretty coarse in the model. Our flight yesterday took us almost 10 miles farther west than expected, and this was after making some adjustments.

73 de Mark N9XTN

On Sun, Jul 12, 2009 at 12:04, L. Paul Verhage <nearsys@...> wrote:

>
>
> Here's what I recorded for launch site coordintes
>
> Primary: Mission Valley HS 38 deg 53.162' N and 96 deg 00.040' W
>
> Secondary: Banner Creek 39 deg 27.685' N and 95 deg 46.760' W
> Everyone can start using those for predictions
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

5576. Re: [GPSL] Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 17:59:47 UTC
From: L. Paul Verhage
Topic: 5571 Message: 5576

It's not Kaw because that's in town. I suppose we could look at a launch there. Are we going to run into problems with the airports if we launch from there?

It would certainly simplify the helium tank issues.

Paul

On Sun, Jul 12, 2009 at 12:19 PM, Harry M <hhm_74115@...> wrote:

> I thought the primary launch site was at Kaw.
> So there has been a change in plans?
>
> > Here's what I recorded for launch site coordintes
> > Primary: Mission Valley HS 38 deg 53.162' N and 96 deg 00.040' W
> > Secondary: Banner Creek 39 deg 27.685' N and 95 deg 46.760' W
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

5577. Re: [GPSL] Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 18:06:49 UTC
From: Keith Kaiser
Topic: 5571 Message: 5577

So our primary launch point is 17 miles SouthWest of town? WoW!

On Jul 12, 2009, at 12:59 PM, L. Paul Verhage wrote:

>
>
>
> It's not Kaw because that's in town. I suppose we could look at a
> launch there. Are we going to run into problems with the airports
> if we launch from there?
>
> It would certainly simplify the helium tank issues.
>
> Paul
>
> On Sun, Jul 12, 2009 at 12:19 PM, Harry M <hhm_74115@...> wrote:
> I thought the primary launch site was at Kaw.
> So there has been a change in plans?
>
> > Here's what I recorded for launch site coordintes
> > Primary: Mission Valley HS 38 deg 53.162' N and 96 deg 00.040' W
> > Secondary: Banner Creek 39 deg 27.685' N and 95 deg 46.760' W
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5578. Re: [GPSL] Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 18:47:53 UTC
From: Mark Conner
Topic: 5571 Message: 5578

I don't mind an extra drive in the morning if it's a safer launch setup - neither site is all that far. While Topeka Muni and Forbes ANGB aren't that busy and are only in Class D airspace, it is an extra risk especially with so many balloons. It does complicate the helium issue, as most of us will have to carry the tanks for the chase unless we can make arrangements to stash the cylinders on site.

73 de Mark N9XTN

>
> On Jul 12, 2009, at 12:59 PM, L. Paul Verhage wrote:
>
>
>
> It's not Kaw because that's in town. I suppose we could look at a launch there. Are we going to run into problems with the airports if we launch from there?
>
> It would certainly simplify the helium tank issues.
>
> Paul
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
>
>
>
>
>

5579. Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 20:27:46 UTC
From: L. Paul Verhage
Topic: 5579 Message: 5579

Here's my list ot attendees, please review. I need to report to the caterers with the number of meals and snacks to provide. The cost for lunch and two snack breaks is $15. I need to verify that I will collect money from the people in this list and for this many.

Thanks

NearSys - 1

Bill Brown - 2

EOSS - 17

Zack Clobes - 2

SABRE (Canada) - 2

NSV - 8

NSTAR - 1

Loughmiller - 2

U Minnesota - 10

ORB/NWTI – 6

Cathcart – 2

UTARC - 4

--
Onwards and Upwards,
Paul

5580. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 20:34:38 UTC
From: Harry M
Topic: 5579 Message: 5580

Confirm ORB/NWTI - 6

Harry

5581. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 20:42:20 UTC
From: Keith Kaiser
Topic: 5579 Message: 5581

Paul,

NSV will consist of only 4, several including Troy and Cindy are not going to be able to make it this year.

On Jul 12, 2009, at 3:27 PM, L. Paul Verhage wrote:

>
>
>
> Here's my list ot attendees, please review. I need to report to the
> caterers with the number of meals and snacks to provide. The cost
> for lunch and two snack breaks is $15. I need to verify that I will
> collect money from the people in this list and for this many.
>
> Thanks
>
> NearSys - 1
>
> Bill Brown - 2
>
> EOSS - 17
>
> Zack Clobes - 2
>
> SABRE (Canada) - 2
>
> NSV - 8
>
> NSTAR - 1
>
> Loughmiller - 2
>
> U Minnesota - 10
>
> ORB/NWTI – 6
>
> Cathcart – 2
>
> UTARC - 4
>
>
>
> --
> Onwards and Upwards,
> Paul

>
>

73's
Keith Kaiser
wa0tjt@...

5582. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 20:42:37 UTC
From: Bruce Coates
Topic: 5579 Message: 5582

Hi Paul

Yup, SABRE will have 2 people. Are we representing the entire country of Canada? Better behave ourselves. ;-)

73, Bruce & Leigh

----- Original Message -----
From: L. Paul Verhage
To: gpsl@yahoogroups.com
Sent: Sunday, July 12, 2009 2:27 PM
Subject: [GPSL] Confirm attendance and lunch

Here's my list ot attendees, please review. I need to report to the caterers with the number of meals and snacks to provide. The cost for lunch and two snack breaks is $15. I need to verify that I will collect money from the people in this list and for this many.

Thanks

NearSys - 1

Bill Brown - 2

EOSS - 17

Zack Clobes - 2

SABRE (Canada) - 2

NSV - 8

NSTAR - 1

Loughmiller - 2

U Minnesota - 10

ORB/NWTI – 6

Cathcart – 2

UTARC - 4

--
Onwards and Upwards,
Paul

5583. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 20:50:21 UTC
From: L. Paul Verhage
Topic: 5579 Message: 5583

Yeah, well we'll be keeping an eye on you.
;)

Paul

On Sun, Jul 12, 2009 at 3:42 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Paul
>
> Yup, SABRE will have 2 people. Are we representing the entire country of
> Canada? Better behave ourselves. ;-)
>
> 73, Bruce & Leigh
>
>
> ----- Original Message -----
> *From:* L. Paul Verhage <nearsys@...>
> *To:* gpsl@yahoogroups.com
> *Sent:* Sunday, July 12, 2009 2:27 PM
> *Subject:* [GPSL] Confirm attendance and lunch
>
> Here's my list ot attendees, please review. I need to report to the
> caterers with the number of meals and snacks to provide. The cost for lunch
> and two snack breaks is $15. I need to verify that I will collect money
> from the people in this list and for this many.
>
> Thanks
>
>
> NearSys - 1
>
> Bill Brown - 2
>
> EOSS - 17
>
> Zack Clobes - 2
>
> SABRE (Canada) - 2
>
> NSV - 8
>
> NSTAR - 1
>
> Loughmiller - 2

>
> U Minnesota - 10
>
> ORB/NWTI – 6
>
> Cathcart – 2
>
> UTARC - 4
>
>
> --
> Onwards and Upwards,
> Paul
>
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--
Onwards and Upwards,
Paul

5584. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 21:18:36 UTC
From: Zack Clobes
Topic: 5579 Message: 5584

For Friday, it will just be myself (1). My wife will be attending the
Garmin tour and some of the other evening events.

Zack Clobes, W0ZC

On Sun, Jul 12, 2009 at 3:50 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Yeah, well we'll be keeping an eye on you.
> ;)
>
> Paul
>
> On Sun, Jul 12, 2009 at 3:42 PM, Bruce Coates <bruce.coates@...>wrote:
>
>>
>>
>> Hi Paul
>>
>> Yup, SABRE will have 2 people. Are we representing the entire country of
>> Canada? Better behave ourselves. ;-)
>>
>> 73, Bruce & Leigh
>>
>>
>> ----- Original Message -----
>> *From:* L. Paul Verhage <nearsys@...>
>> *To:* gpsl@yahoogroups.com
>> *Sent:* Sunday, July 12, 2009 2:27 PM
>> *Subject:* [GPSL] Confirm attendance and lunch
>>
>> Here's my list ot attendees, please review. I need to report to the
>> caterers with the number of meals and snacks to provide. The cost for lunch
>> and two snack breaks is $15. I need to verify that I will collect money
>> from the people in this list and for this many.
>>
>> Thanks
>>
>>
>> NearSys - 1
>>
>> Bill Brown - 2
>>
>> EOSS - 17
>>

>> Zack Clobes - 2
>>
>> SABRE (Canada) - 2
>>
>> NSV - 8
>>
>> NSTAR - 1
>>
>> Loughmiller - 2
>>
>> U Minnesota - 10
>>
>> ORB/NWTI – 6
>>
>> Cathcart – 2
>>
>> UTARC - 4
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

5585. Re: [GPSL] Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-12 22:44:16 UTC
From: Roger Hammond
Topic: 5579 Message: 5585

Great, this year GPSL goes international and I'm going to miss it. Bummer!
Gotta help my kid move in to his new house. Maybe we'll be ready to fly
again by next year.

I'll be keeping an eye on you all.

73,

Rog KCØMWM
CNNSP
Grand Island, Nebraska

> Yup, SABRE will have 2 people. Are we representing the entire country of
> Canada? Better behave ourselves. ;-)
>
> 73, Bruce & Leigh
>
>
> ----- Original Message -----
> *From:* L. Paul Verhage <nearsys@...>
> *To:* gpsl@yahoogroups.com
> *Sent:* Sunday, July 12, 2009 2:27 PM
> *Subject:* [GPSL] Confirm attendance and lunch
>
> Here's my list ot attendees, please review. I need to report to the
> caterers with the number of meals and snacks to provide. The cost for lunch
> and two snack breaks is $15. I need to verify that I will collect money
> from the people in this list and for this many.
>
> Thanks
>
>
> NearSys - 1
>
> Bill Brown - 2
>
> EOSS - 17
>
> Zack Clobes - 2
>
> SABRE (Canada) - 2
>
> NSV - 8
>
> NSTAR - 1
>

> Loughmiller - 2
>
> U Minnesota - 10
>
> ORB/NWTI – 6
>
> Cathcart – 2
>
> UTARC - 4
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>
>

5586. Re: Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-13 03:05:33 UTC
From: Nicholas Stich
Topic: 5571 Message: 5586

The Weather Bureau is located at Billard Airport and they send up their weather balloons from there every day. I wouldn't think a few more balloons would pose any problems.

Nick
K0NMS

5587. Re: [GPSL] Re: Coordinates of Launch Sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-13 03:31:24 UTC
From: Mark Conner
Topic: 5571 Message: 5587

Most likely they coordinate with Topeka tower or approach control
prior to release - that's what the Omaha upper-air station had to do
when it was located near the airport prior to its move to Valley in
the 90s.

If we can do the same, that lowers our risk substantially.

73 de Mark N9XTN

On Sun, Jul 12, 2009 at 22:05, Nicholas Stich<NStich@...> wrote:
> The Weather Bureau is located at Billard Airport and they send up their weather balloons from there every day. I wouldn't think a few more balloons would pose any problems.
>
> Nick
> K0NMS

5588. Looks familiar?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-14 03:00:04 UTC
From: Joe
Topic: 5588 Message: 5588

Check out these photos, Boy does it look familiar?

http://www.dailymail.co.uk/sciencetech/article-1199149/Super-slow-motion-pictures-soap-bubble-bursting-stunning-detail.html

Joe WB9SBD
Near Space Sciences

5589. Re: Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-14 03:10:09 UTC
From: Nicholas Stich
Topic: 5579 Message: 5589

Paul,

I have made it thru Monday and will be able to take off Thursday & Friday.

I will be attending the Garmin Tour and the Conference. I will make my own arrangements for lunch on Friday.

Would it be possible to pick up the H2 cylinders on Friday at the confernce ?

Best Regards,
Nick K0NMS

5590. Re: [GPSL] Re: Confirm attendance and lunch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-14 03:40:37 UTC
From: L. Paul Verhage
Topic: 5579 Message: 5590

I don't have keys to the wlding shop, so I don't know if I'll be able to get
in early. It depends on who is on campus.

Paul

On Mon, Jul 13, 2009 at 10:10 PM, Nicholas Stich <NStich@...> wrote:

> Paul,
>
> I have made it thru Monday and will be able to take off Thursday & Friday.
>
> I will be attending the Garmin Tour and the Conference. I will make my own
> arrangements for lunch on Friday.
>
> Would it be possible to pick up the H2 cylinders on Friday at the confernce
> ?
>
> Best Regards,
> Nick K0NMS
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

5591. EOSS GPSL Travel Plans

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-14 14:25:14 UTC
From: Nick Hanks
Topic: 5591 Message: 5591

EOSS will depart Limon, CO tomorrow morning (Wed.) at 0730 (0830 CDT) for Topeka. There will be six vehicles all running APRS with a -6 SSID. We expect to be in the Topeka area about 1600 CDT. We'll give a call on the 145.27 MHz repeater as we approach Topeka. Enroute simplex frequency is 146.55 MHz.

We'll have mobile Web access so we'll be I-gating ourselves and put out tweets. You can learn all about Twitter and how to join at http://www.eoss.org/twitter.htm. We be sending out tweets on our way out and back, while we're in Topeka, and on Saturday during the launch and recovery activities. Our Webmaster N0KKZ has put together an excellent tutorial on getting started. And you can only subscribe to EOSS tweets if you want.

In addition, two of the vehicles have HF capability and will be monitoring 7.275 MHz and 14.275 MHz at :30 past the hour unless we're on a gas stop or the lunch break. Give us a call!

Nick N0LP

EOSS GPSL Coordinator

5592. Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 00:26:38 UTC
From: L. Paul Verhage
Topic: 5081 Message: 5592

I called Garmin and updated them to our visit. They'll be ready, but ask that no more than 60 go. Right now I have 57 registered. I doubled checked with Garmin and it's fine with SABRE also taking the tour. Garmin didn't say anything about bring ID, but I suspect everyon will have it. I forgot to ask about bring cameras. Bring them unless I hear otherwise. They plan to break us into three groups. You'll be able to talk to Garmin engineers.

It will save time if I can send them a list of names. So please reply back with the names of everyone going.
We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for lunch.

--
Onwards and Upwards,
Paul

5593. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 00:31:58 UTC
From: Zack Clobes
Topic: 5081 Message: 5593

Zack and Crys Clobes

Do you have an address for Garmin and/or the pizza joint? I've been by
their building once before, but it's been a while.

Zack

On Tue, Jul 14, 2009 at 7:26 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I called Garmin and updated them to our visit. They'll be ready, but ask
> that no more than 60 go. Right now I have 57 registered. I doubled checked
> with Garmin and it's fine with SABRE also taking the tour. Garmin didn't
> say anything about bring ID, but I suspect everyon will have it. I forgot
> to ask about bring cameras. Bring them unless I hear otherwise. They plan
> to break us into three groups. You'll be able to talk to Garmin engineers.
>
> It will save time if I can send them a list of names. So please reply back
> with the names of everyone going.
> We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for
> lunch.
>
> --
> Onwards and Upwards,
> Paul
>
>

5594. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 00:39:40 UTC
From: Mark Conner
Topic: 5081 Message: 5594

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=garmin+near+1200+E+151st+St,+Olathe,+KS+66062&sll=37.0625,-95.677068&sspn=34.861942,65.742188&ie=UTF8&t=h&z=16

This is for Garmin. The pizza place is across the street to the south (southwest corner of 151st and Ridgeview), somewhere in that shopping area.

- Mark

On Tue, Jul 14, 2009 at 19:31, Zack Clobes<zclobes@...> wrote:
>
>
> Zack and Crys Clobes
>
> Do you have an address for Garmin and/or the pizza joint? I've been by
> their building once before, but it's been a while.
>
>
> Zack
>
> On Tue, Jul 14, 2009 at 7:26 PM, L. Paul Verhage <nearsys@...> wrote:
>>
>>
>> I called Garmin and updated them to our visit. They'll be ready, but ask
>> that no more than 60 go. Right now I have 57 registered. I doubled checked
>> with Garmin and it's fine with SABRE also taking the tour. Garmin didn't
>> say anything about bring ID, but I suspect everyon will have it. I forgot
>> to ask about bring cameras. Bring them unless I hear otherwise. They plan
>> to break us into three groups. You'll be able to talk to Garmin engineers.
>>
>> It will save time if I can send them a list of names. So please reply back
>> with the names of everyone going.
>> We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for
>> lunch.
>> --
>> Onwards and Upwards,
>> Paul
>
>
>
>

5595. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 00:41:42 UTC
From: Harry M
Topic: 5081 Message: 5595

I would suggest a convoy from Topeka.

Harry

> Do you have an address for Garmin and/or the pizza joint? I've been by
> their building once before, but it's been a while.

5596. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 00:47:08 UTC
From: wb8elk@aol.com
Topic: 5081 Message: 5596

From my group for the Garmin Tour:

- Bill Brown WB8ELK
- Mark Garrett KA9SZX

**********An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
(http://pr.atwola.com/promoclk/100126575x1221323036x1201367247/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=JulyExcfooterNO62)

5598. RE: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 01:20:44 UTC
From: Marty Griffin
Topic: 5081 Message: 5598

Hi Paul,

I think Nick, N0LP, is out of pocket tonight, so I will fill in the EOSS names for you. We will have two less attending the Garmin tour for a total of 14:

Marty Griffin

Sharon Griffin

Nick Hanks

Daryl Hartner

Glenn Hetchler

Edna Hetchler

Chris Krengel

Jim Langsted

Steve Meer

Larry Noble

Mike Pappas

Teresa Pappas

Miles Pappas

Rick von Glahn

All this from Nick's exquisite, detailed GPSL book. Hope this helps. Looking forward to seeing the gang and sniffing some helium...

- Marty WA0GEH

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 14, 2009 6:27 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Garmin Tour

I called Garmin and updated them to our visit. They'll be ready, but ask that no more than 60 go. Right now I have 57 registered. I doubled checked with Garmin and it's fine with SABRE also taking the tour. Garmin didn't say anything about bring ID, but I suspect everyon will have it. I forgot to ask about bring cameras. Bring them unless I hear otherwise. They plan

to break us into three groups. You'll be able to talk to Garmin engineers.

It will save time if I can send them a list of names. So please reply back with the names of everyone going.

We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for lunch.

--
Onwards and Upwards,
Paul

5599. RE: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 02:31:20 UTC
From: Doug Loughmiller
Topic: 5081 Message: 5599

Hi Paul,

The ARBONET team won't be arriving until late on Thursday evening so we won't be participating in the Garmin tour. I think we originally told you we would but we have had a slight change in our departure plans. See you Friday!

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 14, 2009 7:27 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Garmin Tour

I called Garmin and updated them to our visit. They'll be ready, but ask that no more than 60 go. Right now I have 57 registered. I doubled checked with Garmin and it's fine with SABRE also taking the tour. Garmin didn't say anything about bring ID, but I suspect everyon will have it. I forgot to ask about bring cameras. Bring them unless I hear otherwise. They plan to break us into three groups. You'll be able to talk to Garmin engineers.

It will save time if I can send them a list of names. So please reply back with the names of everyone going.

We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for lunch.

--
Onwards and Upwards,
Paul

5600. Weather for this weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 04:12:05 UTC
From: Mark Conner
Topic: 5600 Message: 5600

It appears nearly perfect for Kansas in July. Temps the remainder of the week should be in the mid-80s during the day and low-mid 60s at night. Saturday morning might even be in the upper 50s. Surface winds should be light from the north. If the humidity drops as expected and the skies clear, we should get a good inversion Saturday morning to reduce surface winds even more. With relatively dry air aloft, this should yield good conditions for balloon-borne photos/video.

The forecast wind flow for Saturday morning is almost unidirectional from 5000 ft to 50,000 ft, from about 320 degrees. Peak winds will be about 60-70 kts from 30 to 38 kft. This will make the tracks quite long for a July flight - the latest forecast I ran showed a distance of about 70 miles. If we use Mission Valley, this puts the landing about halfway between Iola and Yates Center.

The only wrinkle I see is that this setup is also prone for unforecasted thunderstorm clusters, especially at night and early morning. They would form to the northwest and ride that unidirectional flow SSE. A little ripple in the upper air flow (often not forecast) can be enough to trigger these clusters. At the moment, NWS is thinking it'll be too dry for this to happen - hope that's the case.

If you are using the NSV prediction page, keep in mind that the turn to the west at 60,000 ft will be sharper and farther west than the prediction shows as the models do not show those details well.

I'll be driving down from Omaha Thursday morning - not sure if I'll be at the pizza place by 11, but hopefully before noon.

73 de Mark N9XTN

5601. Mission Valley HS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 05:07:21 UTC
From: L. Paul Verhage
Topic: 5601 Message: 5601

I called to remind MV HS about the launch today. I was told they signed their contract for resurfacing the parking lot and that it might start by Friday. If so, we'll have to launch from the east side of the school.

I was also told they'll be locking the front gate. So we may have to carry the equipment in.

Perhaps we should be looking at the east side. There should be access to the fields.

--
Onwards and Upwards,
Paul

5602. Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 05:18:34 UTC
From: L. Paul Verhage
Topic: 5081 Message: 5602

I've left a message with Garmin about which entrance to use. Expect a reply tomorrow.

--
Onwards and Upwards,
Paul

5603. New ARHAB Altitude Record

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 10:18:00 UTC
From: Ralph Wallio, W0RPK
Topic: 5603 Message: 5603

We have a new ARHAB Altitude Record: 128,373ft. See details below from the University of Maryland
and the Maryland Space Grant Consortium.

Note payload weight of 0.25-pounds under a 3000g balloon.

I have verified use of Amateur Radio licensing/modes/frequencies.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Dru Ellsberry" <dru@...>
To: <W0RPK@...>
Cc: "Connie Ciarleglio" <cciarleg@...>; <maryb@...>
Sent: Monday, July 13, 2009 02:07
Subject: New ARHAB Altitude Record Submission

Mr Wallio,

I am writing to submit flight information regarding our last balloon flight. I belive that we have set a new altitude record and also may have a number 2 spot on the charts for lightest payload.

Attached is the raw telemetry from the flight (txt) and a slightly polished telemetry record (xls). We will be publishing a full record of the flight in a more readable format later, but I am giving that task to one of our summer interns and it may not be up immediately. The data presented is not in standard NMEA strings but rather the output from the microprocessor we are using for a summer camp with blind students in a couple weeks. The data is pulled (as characters) from the NMEA GPGGA strings, but only one reading (time, alt, long, lat) per second due to limited on board memory. In this manner there may be a couple seconds separating different values, but the data clearly shows that the maximum altitude was at least 128,373ft (note: the log is in meters from the GGA string). Please let me know if you would like a copy of the source code or any other information to validate the information.

GROUP: MdSGC/UMD
CONTACT : Dru Ellsberry (dru@...)
Program WEB PAGE URL: nearspace.net
FLIGHT ID: NS-22x
DATE and TIME Friday, July 10th 2009 9:14 EST
ENVELOPE KCI3000
PAYLOAD WEIGHT and CAPABILITIES: 115g (~.25 lb) GPS and temperature 900 MHz

FREE LIFT: ~2.5lbs
ASCENT RATE: 281.3 m/min (922.9ft/min)
MAXIMUM ALTITUDE ASL: 39,128.10 m (128,373 ft)
GROUND TRACK DISTANCE: 56 miles from launch

More information on the flight and any updates can be found on our website at NearSpace.net

Thank you for both your time with this and for keeping the site for the community,

Dru Ellsberry
KB3MRQ
MdSGC BPP Program Manager

5604. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 15:36:26 UTC
From: Meer, Stephen
Topic: 5081 Message: 5604

Parker Meer will also be attending the tour

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Cc: 'Nick Hanks'
Sent: Tue Jul 14 19:20:44 2009
Subject: RE: [GPSL] Garmin Tour

Hi Paul,

I think Nick, N0LP, is out of pocket tonight, so I will fill in the EOSS names for you. We will have two less attending the Garmin tour for a total of 14:

Marty Griffin

Sharon Griffin

Nick Hanks

Daryl Hartner

Glenn Hetchler

Edna Hetchler

Chris Krengel

Jim Langsted

Steve Meer

Larry Noble

Mike Pappas

Teresa Pappas

Miles Pappas

Rick von Glahn

All this from Nick’s exquisite, detailed GPSL book. Hope this helps. Looking forward to seeing the gang and sniffing some helium...

- Marty WA0GEH

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 14, 2009 6:27 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Garmin Tour

I called Garmin and updated them to our visit. They'll be ready, but ask that no more than 60 go. Right now I have 57 registered. I doubled checked with Garmin and it's fine with SABRE also taking the tour. Garmin didn't say anything about bring ID, but I suspect everyon will have it. I forgot to ask about bring cameras. Bring them unless I hear otherwise. They plan to break us into three groups. You'll be able to talk to Garmin engineers.

It will save time if I can send them a list of names. So please reply back with the names of everyone going.

We'll meet at the Pizza Shoppe across the street from Garmin at 11 AM for lunch.

--
Onwards and Upwards,
Paul

5605. Taylor Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 17:30:59 UTC
From: Jeff Dailey
Topic: 2211 Message: 5605

Taylor University will be launching from Upland Indiana

Flight #: 188
Flight ID: STG101
Date: 7-15-2009
Time: 7:30AM EST

APRS: 144.390 KB9ZNZ-1

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5606. Re: Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 20:50:27 UTC
From: Nicholas Stich
Topic: 5081 Message: 5606

I will be the only person to attend the Garmin Tour. I plan to arrive just in time for the tour.

Nicholas Stich
(KØNMS /
WPWG368)

5607. ARBONET 2009 GPSL Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 21:16:39 UTC
From: Doug Loughmiller
Topic: 5607 Message: 5607

Here are the frequencies we will be using:

146.56 MHz - Voice Beacon

144.390 MHZ - APRS (20 sec time slot)

50.070 - CW and DominoEX Data

W look forward to participating in this year's event.

73,

Doug Loughmiller, W5BL

8812 Harmony Drive

McKinney, TX 75070

214-455-7071

5608. List of freqs flying?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:13:25 UTC
From: Don
Topic: 5608 Message: 5608

Is there a list of all the balloon payload freqs?

There are a few new hams here that are going to the hamfest (upgrade testing) but would like to listen to the balloons. They do not have APRS yet.

Thanks,
Don AE0D
HABITAT SkyLab

5609. Re: [GPSL] List of freqs flying?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:20:34 UTC
From: Ralph Wallio, W0RPK
Topic: 5608 Message: 5609

See http://www.ARHAB.org. Check for daily updates.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Don" <don_ka0jlf@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, July 15, 2009 17:13
Subject: [GPSL] List of freqs flying?

Is there a list of all the balloon payload freqs?

There are a few new hams here that are going to the hamfest (upgrade testing) but would like to
listen to the balloons. They do not have APRS yet.

Thanks,
Don AE0D
HABITAT SkyLab

5610. Re: [GPSL] ARBONET 2009 GPSL Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:23:59 UTC
From: Ralph Wallio, W0RPK
Topic: 5607 Message: 5610

What call signs and which DominoEX, e.g., EX4, EX5, et al?

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Doug Loughmiller" <W5BL@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, July 15, 2009 16:16
Subject: [GPSL] ARBONET 2009 GPSL Frequencies

Here are the frequencies we will be using:

146.56 MHz - Voice Beacon

144.390 MHZ - APRS (20 sec time slot)

50.070 - CW and DominoEX Data

W look forward to participating in this year's event.

73,

Doug Loughmiller, W5BL

8812 Harmony Drive

McKinney, TX 75070

214-455-7071

5611. Freq...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:25:48 UTC
From: Keith Kaiser
Topic: 5611 Message: 5611

NSV is going to fly on 144.990 twice a minute.

73's
Keith Kaiser
wa0tjt@...

5612. Re: [GPSL] Freq...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:29:56 UTC
From: Ralph Wallio, W0RPK
Topic: 5611 Message: 5612

What call sign?

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Keith Kaiser" <wa0tjt@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, July 15, 2009 17:25
Subject: [GPSL] Freq...

NSV is going to fly on 144.990 twice a minute.

73's
Keith Kaiser
wa0tjt@...

5613. BASE 39 Update - float with QSL opportunity for folks in portions of Central U.S.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 22:59:01 UTC
From: BASE
Topic: 5613 Message: 5613

Dear friends,

It appears that we will float BASE 39 on Saturday,18 July. This means that we will carry the 922-28 MHz spread spectrum radio,and will not reach an extremely high altitude.

Launch still will occur at 13:50 UT (8:50 am Central Daylight Time) from Rantoul, IL (40.29 N, 88.14 W) The target ascent rate will be 1000 feet/min.

APRS information will be sent over 144.39 MHz every minute under the call sign, W9YJ-11.

The helium filled balloon will reach a float altitude of 70000 feet (21.5km) about 15:00 UT and will attempt to float at this altitude for about three hours. During this time the balloon should travel slowly to the NW from about 40.0N & 87.8W to 40.1 N & 88.1 W. The descent will begin about 18:00 UT on a slowly deflating balloon with landing about 19:30 UT.

The uplink frequency on the radio will be 144.36 MHz, and the downlink frequency will be 446.025 MHz.

The Scouts will be using the call sign WB9SA. If you have a chance to contact the station, I know the Scouts will be thrilled. You may also attempt to use the repeater for a long distance Earth-Balloon-Earth contact with hams from larger distances. The Scouts will be listening for N9XTN-11 and WB8ELK and from GPSL.

Thanks for your support,

Howard

5614. NSTAR calls/freqs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 23:27:35 UTC
From: Mark Conner
Topic: 5614 Message: 5614

N9XTN-11: 144.36 MHz with a quiet period between :00 and :15 for WB8ELK
N9XTN-12: 144.39 MHz between :51 and :55

Simplex repeater on 446.30 MHz with automated announcement every 3 minutes

Any conflicts (esp. .39), let me know ASAP.

73 de Mark N9XTN

5615. [Fwd: Re: [Ballooning] KD7LMO]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 00:41:02 UTC
From: Mike Manes
Topic: 5615 Message: 5615

-------- Original Message --------
Subject: Re: [Ballooning] KD7LMO
Date: Wed, 15 Jul 2009 08:24:49 -0700
From: Jeffrey Uurtamo <kd7jny@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com
References: <b2e0a4330907150819i72a4d283xb7e89b915461c56e@...>

The machine that hosted his domain I think was in his home. I have
scrape of the site at http://www.ansr.org/kd7lmo , I hope whatever you
are looking for can be found there.

On Wed, Jul 15, 2009 at 8:19 AM, Chris Maness <chris@...
<mailto:chris@...>> wrote:

Has Michael's web page been moved since his passing or has his
hosting lapsed?

Chris Maness

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5616. Re: [GPSL] Freq...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 23:44:25 UTC
From: Keith Kaiser
Topic: 5611 Message: 5616

W0NSV-11 will be on 144.990

On Jul 15, 2009, at 5:29 PM, Ralph Wallio, W0RPK wrote:

> What call sign?
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@... W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
> ----- Original Message -----
> From: "Keith Kaiser" <wa0tjt@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, July 15, 2009 17:25
> Subject: [GPSL] Freq...
>
> NSV is going to fly on 144.990 twice a minute.
>
> 73's
> Keith Kaiser
> wa0tjt@...
>
>
>

73's
Keith Kaiser
wa0tjt@...

5617. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-15 23:45:53 UTC
From: Mark Garrett
Topic: 5081 Message: 5617

Harry:

I would recommend a carpool. Did not know that the Garmin factory was so far from the motel.

I just got here at the Quality Inn and wondered when people want to leave from here.

Unfortunately Bill Brown left late and may drive directly to the factory. I will be giving him the directions later tonight.

Mark Garrett, KA9SZX

From: Harry M <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Tuesday, July 14, 2009 7:41:42 PM
Subject: Re: [GPSL] Garmin Tour

I would suggest a convoy from Topeka.

Harry

> Do you have an address for Garmin and/or the pizza joint? I've been by
> their building once before, but it's been a while.

5618. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 00:26:54 UTC
From: Bruce Coates
Topic: 5081 Message: 5618

Hi Mark

We're just next door in the Motel 6. My wife and I would be interested in car pooling as well.

73, Bruce & Leigh
VE5BNC & VE5LEE
SABRE

----- Original Message -----
From: Mark Garrett
To: GPSL@yahoogroups.com
Sent: Wednesday, July 15, 2009 6:45 PM
Subject: Re: [GPSL] Garmin Tour

Harry:

I would recommend a carpool. Did not know that the Garmin factory was so far from the motel.

I just got here at the Quality Inn and wondered when people want to leave from here.

Unfortunately Bill Brown left late and may drive directly to the factory. I will be giving him the directions later tonight.

Mark Garrett, KA9SZX

From: Harry M <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Tuesday, July 14, 2009 7:41:42 PM
Subject: Re: [GPSL] Garmin Tour

I would suggest a convoy from Topeka.

Harry

> Do you have an address for Garmin and/or the pizza joint? I've been by
> their building once before, but it's been a while.

5619. Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 00:49:39 UTC
From: L. Paul Verhage
Topic: 5081 Message: 5619

We will enter Garmin on the north side. Their parking lot has some constuction, there should still be enough space. I'll meet you at the pizza Shoppe on the south side of the intersection. Paul *DIRECTIONS FROM 1-435 SOUTH TO GARMIN INTERNATIONAL:*

1-435 South to 1-35 South (Wichita)

Follow 1-35 South to Olathe Exit 215, also 169 South / 7 South

Go Straight through the 1st Stop Light

Go Left at the 2nd Stop Light

Continue Over the Bridge for Approximately 1 Mile

GARMIN is Located on the Left Side of the Road

--
Onwards and Upwards,
Paul

5620. Location/time for BLAST! screening?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 03:00:47 UTC
From: Mark Conner
Topic: 5620 Message: 5620

I didn't see anything on the e-mail list or the website for when/where BLAST! will be shown, other than it's late afternoon tomorrow somewhere. Any details?

Also, how long is the Garmin tour expected to take?

73 de Mark N9XTN

5621. GPSL weather forecast

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 03:38:01 UTC
From: Mark Conner
Topic: 5621 Message: 5621

Saturday looks better and better. Temps will be 55-57F at sunrise, not far from a record low. Afternoon highs will be in the low 80s. Surface winds from the north at less than 5 mph. Skies should be clear and little moisture all the way up, so camera shots should be great.

There is a chance for severe weather in northeast Kansas Thursday late afternoon into evening, but likely to be just marginally severe wind and hail. Skies will clear during the day Friday with highs in the mid 80s.

It appears we may be using Banner Creek for our launch site, given the access issues at Mission Valley. The predictions are pretty stable with the direction of about 155 degrees and a distance of 70-80 miles. From Banner Creek, this puts the landing several miles south of Ottawa (Kansas, not Canada).

Note there is some construction (resurfacing) scheduled on US56 between US75 and US59. It may be easier to come south from Lawrence on US59 to chase rather than risk delays on US56. KSDOT says that the construction should not significantly affect traffic, though.

73 de Mark N9XTN

5622. Re: [GPSL] Location/time for BLAST! screening?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 03:43:28 UTC
From: L. Paul Verhage
Topic: 5620 Message: 5622

Garmin said expect around 90 minutes to two hours. The screening for Blast! is at my schoool, Washburn Tech. Doors open at 6 and the screening starts at 7. Bring your own snacks for the movie. You can also do set up Thursday evening.

The perferred parking is the center of the campus. There's multiple ways in.

Paul

On Wed, Jul 15, 2009 at 10:00 PM, Mark Conner <mconner1@...> wrote:

> I didn't see anything on the e-mail list or the website for when/where
> BLAST! will be shown, other than it's late afternoon tomorrow
> somewhere. Any details?
>
> Also, how long is the Garmin tour expected to take?
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

--
Onwards and Upwards,
Paul

5623. Re: [GPSL] GPSL weather forecast

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 03:46:02 UTC
From: L. Paul Verhage
Topic: 5621 Message: 5623

Ummm, do we run the risk of landing too close to I-35?

Paul

On Wed, Jul 15, 2009 at 10:38 PM, Mark Conner <mconner1@...> wrote:

> Saturday looks better and better. Temps will be 55-57F at sunrise,
> not far from a record low. Afternoon highs will be in the low 80s.
> Surface winds from the north at less than 5 mph. Skies should be
> clear and little moisture all the way up, so camera shots should be
> great.
>
> There is a chance for severe weather in northeast Kansas Thursday late
> afternoon into evening, but likely to be just marginally severe wind
> and hail. Skies will clear during the day Friday with highs in the mid
> 80s.
>
> It appears we may be using Banner Creek for our launch site, given the
> access issues at Mission Valley. The predictions are pretty stable
> with the direction of about 155 degrees and a distance of 70-80 miles.
> From Banner Creek, this puts the landing several miles south of
> Ottawa (Kansas, not Canada).
>
> Note there is some construction (resurfacing) scheduled on US56
> between US75 and US59. It may be easier to come south from Lawrence
> on US59 to chase rather than risk delays on US56. KSDOT says that the
> construction should not significantly affect traffic, though.
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

--
Onwards and Upwards,
Paul

5624. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 12:13:17 UTC
From: Mark Garrett
Topic: 5081 Message: 5624

Hi Bruce:

I wondered if anyone was staying there. I talked with Harry Muller last night and we are going to meet up withthe EOSS group (just woke up as I type this). Give a call on 146.550 (EOSS simplex channel) and we can hook up or pop over to Quality Inn as we are to grab a bite and talk how we are going to get there. We are looking at sometime of meeting up with the group around 10 AM but it is going to take over an hour of hard driving to get there. Anyone hear from Paul?

Bill Brown is in Columbia, MO, looks like he got there around 4 AM this morning. Has anyone mentioned the name of the restaurant we are meeting at prior to the Garmin Tour. Bill may join us there or meet us direct at the factory.

Mark Garrett
KA9SZX with WB8ELK

From: Bruce Coates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, July 15, 2009 7:26:54 PM
Subject: Re: [GPSL] Garmin Tour

Hi Mark

We're just next door in the Motel 6. My wife
and I would be interested in car pooling as well.

73, Bruce & Leigh
VE5BNC & VE5LEE
SABRE

----- Original Message -----
>From: Mark Garrett
>To: GPSL@yahoogroups. com
>Sent: Wednesday, July 15, 2009 6:45
> PM
>Subject: Re: [GPSL] Garmin Tour
>
>
>Harry:
>
>I would recommend a carpool. Did not know that the
> Garmin factory was so far from the motel.
>
>I just got here at the
> Quality Inn and wondered when people want to leave from
> here.

>
>Unfortunately Bill Brown left late and may drive directly to the
> factory. I will be giving him the directions later tonight.
>
>Mark
> Garrett, KA9SZX
>
>
>
>
>
>

From: Harry M
> <hhm_74115@cox. net>
>To: GPSL@yahoogroups. com
>Sent: Tuesday, July 14, 2009 7:41:42
> PM
>Subject: Re: [GPSL] Garmin
> Tour
>
>
>I would suggest a convoy from Topeka.
>
>Harry
>
>> Do you have
> an address for Garmin and/or the pizza joint? I've been by
>> their
> building once before, but it's been a
> while.
>
>
>

5625. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 12:27:01 UTC
From: Mark Conner
Topic: 5081 Message: 5625

I will be coming down I-29 from Omaha this morning, should arrive at the pizza place around 1130. You can watch for N9XTN-9 as I have a temporary lash-up in my Mazdaspeed 3.

73 de Mark N9XTN

5626. Re: [GPSL] Location/time for BLAST! screening?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 13:25:48 UTC
From: Keith Kaiser
Topic: 5620 Message: 5626

BLAST! will be screened back in Topeka at KATS I'm sure Paul will give
us all the details. Time I believe will be at 7pm. is that correct Paul?

On Jul 15, 2009, at 10:00 PM, Mark Conner wrote:

> I didn't see anything on the e-mail list or the website for when/where
> BLAST! will be shown, other than it's late afternoon tomorrow
> somewhere. Any details?
>
> Also, how long is the Garmin tour expected to take?
>
> 73 de Mark N9XTN
>
>

73's
Keith Kaiser
wa0tjt@...

5627. Re: can TM-D710 digipeat other SSID of mine only

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 13:45:46 UTC
From: Ronald Malinowski, Jr.
Topic: 5627 Message: 5627

I am posting this here cause I think I will get a quicker answer to my question. for testing purposes I want to temporarily be able to digipeat a balloon tracker for testing through my mobile to get it into a local i-Gate. Im new to the TM-D710 and there is an option to digipeat own callsign, I turn this on and it doesn't seem to do it. I thought this would digipeat anything with n9qgs all the way through n9qgs-15.

also this would be something I would like to temporarily activate possibly when I reach a balloon that I know is not getting into an igate so the final position may be obtained via aprs.fi for onlookers. What feature and setting do I need to activate to set my car up as a digipeater in a heartbeat. I believe the tracker is set as wide 2-1 and i don't want to have to change settings on the tracker whic would require me to unsolder the GPS lead to be able to communicate programming data into the tiny-trak. I know there is a resister value that would eliminate this, but I don't recall the value so I have not been able to make this mod.

Any info appreciate, Ron N9QGS

5628. Re: [GPSL] Garmin Tour

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 14:04:54 UTC
From: L. Paul Verhage
Topic: 5081 Message: 5628

We're meeting at the Pizza Shoppe.

On Thu, Jul 16, 2009 at 7:27 AM, Mark Conner <mconner1@...> wrote:

> I will be coming down I-29 from Omaha this morning, should arrive at
> the pizza place around 1130. You can watch for N9XTN-9 as I have a
> temporary lash-up in my Mazdaspeed 3.
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

5629. Forecast track

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-16 22:45:57 UTC
From: Mark Conner
Topic: 5629 Message: 5629
Attachments: 1 described; binary payloads are missing from this source WARC

Still looks pretty consistent. Using 1000 ft up/ 1000 ft down, and 90,000 ft burst, the landing looks to be about 8 miles south of Ottawa. The winds I used for this profile were adjusted by the latest sounding data above 60,000 ft.

Surface winds Saturday morning still look to be light from the north at less than 5 mph, temps in the 54-58 range.

73 de Mark N9XTN

5630. Central USA Cross Band Balloon Launch Saturday July 18

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-17 09:46:03 UTC
From: Ralph Wallio, W0RPK
Topic: 5630 Message: 5630

Central USA Cross Band Balloon Launch Saturday July 18

---

a.. Subject: [amsat-bb] Central USA Cross Band Balloon Launch Saturday July 18
b.. From: "JoAnne Maenpaa"
c.. Date: Thu, 16 Jul 2009 21:18:34 -0500

Hello everyone,

This is making the e-mail rounds of mid-west ham radio circuits. Working a high altitude balloon launch might be interesting to AMSAT folks in the central portion of USA ...

QSO Opportunity with High Altitude Balloon Flight Saturday,
18 July 2009

As part of SpaceJam-3 (www.spacejamboree.com),
DePauw University (www.depauw.edu/acad/physics/base) will
be flying a cross band repeater to allow the Scouts at the Jamboree
to talk with ground stations from a large area of the central
portion of the United States.

Launch will occur at 13:50 UT (8:50 am Central Daylight Time)
from Rantoul, IL (40.29 N, 88.14 W) The target ascent rate will
be 1000 feet/min.

APRS information will be sent over 144.39 MHz every minute under
the call sign, W9YJ-11.

The helium filled balloon will reach a float altitude of 70000
feet (21.5km) about 15:00 UT and will attempt to float at this
altitude for about three hours. During this time the balloon
should travel slowly to the NW from about 40.0N & 87.8W to 40.1 N
& 88.1 W. The descent will begin about 18:00 UT on a slowly
deflating balloon with landing about 19:30 UT.

The uplink frequency on the radio will be 144.36 MHz, and the
downlink frequency will be 446.025 MHz.

The Scouts will be using the call sign WB9SA. If you have a
chance to contact the station, the Scouts will be thrilled to
make the contact! You may also attempt to use the repeater for
a long distance Earth-Balloon-Earth contact with hams from larger
distances.

Thanks to Howard Brooks, KC9QBN, Professor of Physics & Astronomy
at DePauw University, W9YJ for making this happen!!!

If you are in the IL/IN area you might catch ATV from our first
balloon going up (100,000 ft) at 8:20 AM CDT Saturday from Rantoul
IL 430 Mhz, with a CW call "DE WB9SA"

--
73 de JoAnne K9JKM
k9jkm@...
Editor, AMSAT News Service
Copy Editor, AMSAT Journal

5631. GPSL launch site change - KATS (in Topeka)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-17 15:33:23 UTC
From: Mark Conner
Topic: 5631 Message: 5631

Hello from the GPSL 2009 conference!

Zack W0ZC has made some coordination calls with Topeka/Billard and Forbes Field - we are now planning to fly from the KATS (nka Washburn Institude of Technology) parking lot. Exact site will be selected at lunch but it will be within the KATS campus.

Teams are planning to arrive at 0630 CDT (1130 UTC) with launches starting around 0730. We will try to keep the interval between launches to a minimum (hopefully all within 30 mi). Coordination with Forbes Field will occur prior to launch since we are not far off Rwy 31's departure route(Topeka/Billard is not requiring pre-launch coordination, just general awareness - their active runways do not align with KATS).

More later in the day, especially after the wx briefing about 1545 CDT.

73 de Mark N9XTN

5632. GPSL update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-17 22:28:34 UTC
From: Mark Conner
Topic: 67 Message: 5632
Attachments: 1 described; binary payloads are missing from this source WARC

Launch teams will arrive at KATS beginning around 0630. Our launch window is 0730-0830 CDT (1230-1330 UTC). Those who are ready will probably release at or shortly after 0730 with perhaps a second group 15-30 minutes later.

If the winds remain light, NSTAR will wait to about 0815-0830 to launch. We need to have our balloon filled by about 0745 so the helium tank can be turned by 8 and the custodian can go home (he's coming in just for us and would prefer to get on with his day). This should hopefully give us enough overlap with the BASE flight for a chance at BBE telemetry.

Our landings should be south or southeast of Garrett KS - the nominal profile to 90,000 ft is for about 10 miles SE of Garrett (150 deg at 70 mi). Higher altitudes will end up closer to US 59. There is a repeater listed in Garrett, but someone said it is not currently functional. We will try to use the Mound City 147.285+ repeater for recovery coordination.

Post-recovery rally point is the Pizza Hut in Garrett (North Maple Street, the north side of town on US 59).

73 de Mark N9XTN

5633. ATV cancelled from BASE 38 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 11:22:46 UTC
From: Ron Malinowski, Jr.
Topic: 5633 Message: 5633

Due to technically difficulties the ATV that was scheduled to be on BASE 38 from Rantoul, IL has been removed, and with the change of GPSL launch times, the flight order will be reversed and digital cameras will replace ATV, and will launch at later time, and repeater will fly in the earlier time slot to be closer with the GPSL group.

Ron N9QGS

5634. NSTAR GPSL flight recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 15:26:12 UTC
From: Mark Conner
Topic: 5634 Message: 5634

NE edge of Garnett KS in cow pasture.

--
Sent from my mobile device

5635. Quick GPSL update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 19:11:46 UTC
From: Mark Conner
Topic: 5635 Message: 5635

Appears everyone recovered payloads except ARBONET. From overhearing the lunch conversation, they had a battery issue in flight and were not transmitting APRS data clean enough to be decoded. I think an effort is underway by some of the EOSS members to see if they can possibly DF the payload.

NSTAR has photos of at least one other balloon in flight. Our balloon was pretty entangled in our flight train, but did not affect the chute and we only had a few pictures where the balloon remnants obscured the camera view.

WB8ELK's balloon seriously fouled his chute and he more or less streamered in, but no major damage noted (landed in a soybean field).

A get-together will be held tonight at 6pm at the Coyote Cafe (?? - Coyote something or other) to share flight stories and other lies.

73 de Mark N9XTN

5636. Whose balloon is this?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 21:38:38 UTC
From: Mark Conner
Topic: 5636 Message: 5636
Attachments: 1 described; binary payloads are missing from this source WARC

This picture was taken from NSTAR's payload when it was at about 89,700 ft at 38 35.62 N 095 28.08 W (11 miles W of Ottawa) at 1419 UTC. The azimuth to the sun is about 100 degrees at this time, which is aligned roughly with the left edge of the picture. So the azimuth to the other balloon is roughly 140-150 degrees. A WAG for distance would be 2-5 miles, and an altitude in the 91-95 kft range. So the location of the other balloon is 6-9 miles SW or WSW of Ottawa at this time.

I'm going to try to extract what track data I can get from findu.com and see if I can correlate it, but if anyone thinks it's their balloon (or has more track data than me and can tell right away), please let me know.

I think we have a picture of a second balloon, but will have to check further.

73 de Mark N9XTN

5637. NSTAR 09-C (GPSL 2009) ground photos posted

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 21:02:58 UTC
From: Mark Conner
Topic: 5637 Message: 5637

http://picasaweb.google.com/mconner1/NSTAR09CGroundPhotosGPSL2009

5638. Re: [GPSL] Whose balloon is this? [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 22:22:06 UTC
From: Mark Conner
Topic: 5636 Message: 5638
Attachments: 1 described; binary payloads are missing from this source WARC

OK, I got enough track data to work it out. NSTAR was viewing
W0NSV-11 (Near Space Ventures) at 14:19:23 UTC while NSTAR was at
about 89,700 ft and NSV was at 92,300 ft at a distance of just over 2
miles. Attached is the track map with a blue line indicating the
direction from one balloon to the other at the time of the photo.
This is consistent with the estimates worked out below.

73 de Mark N9XTN

On Sat, Jul 18, 2009 at 16:38, Mark Conner<mconner1@...> wrote:
>
> This picture was taken from NSTAR's payload when it was at about
> 89,700 ft at 38 35.62 N 095 28.08 W (11 miles W of Ottawa) at 1419
> UTC. The azimuth to the sun is about 100 degrees at this time, which
> is aligned roughly with the left edge of the picture. So the azimuth
> to the other balloon is roughly 140-150 degrees. A WAG for distance
> would be 2-5 miles, and an altitude in the 91-95 kft range. So the
> location of the other balloon is 6-9 miles SW or WSW of Ottawa at this
> time.
>
> I'm going to try to extract what track data I can get from findu.com
> and see if I can correlate it, but if anyone thinks it's their balloon
> (or has more track data than me and can tell right away), please let
> me know.
>
> I think we have a picture of a second balloon, but will have to check further.
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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5639. Re: [GPSL] Whose balloon is this? [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 22:59:18 UTC
From: Keith Kaiser
Topic: 5636 Message: 5639

Hey that's us! Very cool, very cool indeed. I still don't see us in the photo however. What am I missing?....

On Jul 18, 2009, at 5:22 PM, Mark Conner wrote:

> [Attachment(s) from Mark Conner included below]
>
> OK, I got enough track data to work it out. NSTAR was viewing
> W0NSV-11 (Near Space Ventures) at 14:19:23 UTC while NSTAR was at
> about 89,700 ft and NSV was at 92,300 ft at a distance of just over 2
> miles. Attached is the track map with a blue line indicating the
> direction from one balloon to the other at the time of the photo.
> This is consistent with the estimates worked out below.
>
> 73 de Mark N9XTN
>
> On Sat, Jul 18, 2009 at 16:38, Mark Conner<mconner1@...> wrote:
> >
> > This picture was taken from NSTAR's payload when it was at about
> > 89,700 ft at 38 35.62 N 095 28.08 W (11 miles W of Ottawa) at 1419
> > UTC. The azimuth to the sun is about 100 degrees at this time,
> which
> > is aligned roughly with the left edge of the picture. So the
> azimuth
> > to the other balloon is roughly 140-150 degrees. A WAG for distance
> > would be 2-5 miles, and an altitude in the 91-95 kft range. So the
> > location of the other balloon is 6-9 miles SW or WSW of Ottawa at
> this
> > time.
> >
> > I'm going to try to extract what track data I can get from findu.com
> > and see if I can correlate it, but if anyone thinks it's their
> balloon
> > (or has more track data than me and can tell right away), please let
> > me know.
> >
> > I think we have a picture of a second balloon, but will have to
> check further.
> >
> > 73 de Mark N9XTN
> >
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> > Yahoo! Groups Links

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73's
Keith Kaiser
wa0tjt@...

5640. Flight track

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-18 23:03:26 UTC
From: Keith Kaiser
Topic: 5640 Message: 5640

If someone has a good log of the all or at least most of the flights would you please send it to me. I'm also really looking for a good log of the 144.990 groups too.

Thanks.

73's
Keith Kaiser
wa0tjt@...

5641. Re: [GPSL] Flight track

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 02:03:33 UTC
From: Mark Conner
Topic: 5640 Message: 5641
Attachments: 1 described; binary payloads are missing from this source WARC

Hopefully Yahoo will link to the attached text file. This is all the log data I pulled from FindU. It's incomplete, but gives a good picture of the flights for all but two of the flight trains.

I would encourage each group to post a log contain as complete a record of time/position/altitude as possible. I would like to create a KML file for Google Earth that would show the flights as they were launched so one could see relative positions.

I will have a more complete log for NSTAR in a day or two, once I extract it from the payload and process it.

73 de Mark N9XTN

On Sat, Jul 18, 2009 at 18:03, Keith Kaiser<wa0tjt@...> wrote:
> If someone has a good log of the all or at least most of the flights
> would you please send it to me. I'm also really looking for a good log
> of the 144.990 groups too.
>
> Thanks.
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
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> Yahoo! Groups Links
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5642. Re: [GPSL] Whose balloon is this?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 03:35:55 UTC
From: Mark Conner
Topic: 5636 Message: 5642

The dot in the upper left of the photo is the NSV balloon.

Also, the Univ of Minnesota group got *4* balloons in one of their
photos (they were in the first group of 5 that launched).

- Mark

On Sat, Jul 18, 2009 at 17:59, Keith Kaiser<wa0tjt@...> wrote:
>
>
> Hey that's us! Very cool, very cool indeed. I still don't see us in the
> photo however. What am I missing?....
> On Jul 18, 2009, at 5:22 PM, Mark Conner wrote:
>
> [Attachment(s) from Mark Conner included below]
>
> OK, I got enough track data to work it out. NSTAR was viewing
> W0NSV-11 (Near Space Ventures) at 14:19:23 UTC while NSTAR was at
> about 89,700 ft and NSV was at 92,300 ft at a distance of just over 2
> miles. Attached is the track map with a blue line indicating the
> direction from one balloon to the other at the time of the photo.
> This is consistent with the estimates worked out below.
>
> 73 de Mark N9XTN
>
> On Sat, Jul 18, 2009 at 16:38, Mark Conner<mconner1@...> wrote:
>>
>> This picture was taken from NSTAR's payload when it was at about
>> 89,700 ft at 38 35.62 N 095 28.08 W (11 miles W of Ottawa) at 1419
>> UTC. The azimuth to the sun is about 100 degrees at this time, which
>> is aligned roughly with the left edge of the picture. So the azimuth
>> to the other balloon is roughly 140-150 degrees. A WAG for distance
>> would be 2-5 miles, and an altitude in the 91-95 kft range. So the
>> location of the other balloon is 6-9 miles SW or WSW of Ottawa at this
>> time.
>>
>> I'm going to try to extract what track data I can get from findu.com
>> and see if I can correlate it, but if anyone thinks it's their balloon
>> (or has more track data than me and can tell right away), please let
>> me know.
>>
>> I think we have a picture of a second balloon, but will have to check
>> further.
>>
>> 73 de Mark N9XTN

5643. Re: [GPSL] Whose balloon is this?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 03:36:56 UTC
From: Mark Conner
Topic: 5636 Message: 5643

Sorry, upper right of the photo. D'oh!

On Sat, Jul 18, 2009 at 22:35, Mark Conner<mconner1@...> wrote:
> The dot in the upper left of the photo is the NSV balloon.
>

5644. Re: [GPSL] Flight track

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 12:05:19 UTC
From: L. Paul Verhage
Topic: 5640 Message: 5644

Keith, NSV won the highest altitude award. Can you give me an address to send the GPS?

Thanks,
Paul

On Sat, Jul 18, 2009 at 6:03 PM, Keith Kaiser <wa0tjt@...> wrote:

> If someone has a good log of the all or at least most of the flights
> would you please send it to me. I'm also really looking for a good log
> of the 144.990 groups too.
>
> Thanks.
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
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>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5645. Re: [GPSL] Flight track [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 12:06:54 UTC
From: L. Paul Verhage
Topic: 5640 Message: 5645

I'd like to see an image of that flight paths posted to the Super Launch site.

Paul

On Sat, Jul 18, 2009 at 9:03 PM, Mark Conner <mconner1@...> wrote:

> Hopefully Yahoo will link to the attached text file. This is all the
> log data I pulled from FindU. It's incomplete, but gives a good
> picture of the flights for all but two of the flight trains.
>
> I would encourage each group to post a log contain as complete a
> record of time/position/altitude as possible. I would like to create
> a KML file for Google Earth that would show the flights as they were
> launched so one could see relative positions.
>
> I will have a more complete log for NSTAR in a day or two, once I
> extract it from the payload and process it.
>
> 73 de Mark N9XTN
>
> On Sat, Jul 18, 2009 at 18:03, Keith Kaiser<wa0tjt@...> wrote:
> > If someone has a good log of the all or at least most of the flights
> > would you please send it to me. I'm also really looking for a good log
> > of the 144.990 groups too.
> >
> > Thanks.
> >
> >
> > 73's
> > Keith Kaiser
> > wa0tjt@...
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Onwards and Upwards,
Paul

5646. Hotel Problems

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 12:14:21 UTC
From: L. Paul Verhage
Topic: 5646 Message: 5646

Can everyone please send me your hotel complaints? Also lt me know if I can include your name with the complaints.

I'd like to use them for fodder when I make my case with the hotel.

It was a great GPSL and I really enjoyed hosting. I got a little scared there when I saw the balloon grade tag on the tanks.

Overall, how many tanks were used? Can I get an idea of how tanks should still have gas so I can confirm with Linweld what the see?

Anyone with contacts with Raven and CSBF, please email that information so we can start working on GPSL 2010.

I'll get a slideShare account set up for GPSL. So please get your slides and notes togther so we can post them. I'll send out the password to the account privately. It can be shared with anyone, I just don't want to post it publically.

Thanks

--
Onwards and Upwards,
Paul

5647. RE: [GPSL] Hotel Problems

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 12:34:57 UTC
From: Earl Foster
Topic: 5646 Message: 5647

Paul,
I know the senior aerospace engineer at Aerostar (formly Raven). Can you tell me what you had in mind and I will approach him. He also knows all the main players at CSBF.

Earl
http://www.hapb.net

_____
> To: gpsl@yahoogroups.com; flaten@...
> From: nearsys@...
> Date: Sun, 19 Jul 2009 07:14:21 -0500
> Subject: [GPSL] Hotel Problems
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> Can everyone please send me your hotel complaints? Also lt me know if I can include your name with the complaints.
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> I'd like to use them for fodder when I make my case with the hotel.
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>
> It was a great GPSL and I really enjoyed hosting. I got a little scared there when I saw the balloon grade tag on the tanks.

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>
> Overall, how many tanks were used? Can I get an idea of how tanks should still have gas so I can confirm with Linweld what the see?
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>
> Anyone with contacts with Raven and CSBF, please email that information so we can start working on GPSL 2010.
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>
> I'll get a slideShare account set up for GPSL. So please get your slides and notes togther so we can post them. I'll send out the password to the account privately. It can be shared with anyone, I just don't want to post it publically.
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> Thanks
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> Onwards and Upwards,
> Paul
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Windows Live™ Hotmail®: Search, add, and share the web’s latest sports videos. Check it out.
http://www.windowslive.com/Online/Hotmail/Campaign/QuickAdd?ocid=TXT_TAGLM_WL_QA_HM_sports_videos_072009&cat=sports

5648. What was everybody flying at GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 13:24:03 UTC
From: Bruce Coates
Topic: 5648 Message: 5648

Hi everyone

I was just curious what everyone was flying as their payloads.

73, Bruce
VE5BNC
http://ve5aa.dyndns.org

5649. Re: [GPSL] Hotel Problems

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 14:03:07 UTC
From: L. Paul Verhage
Topic: 5646 Message: 5649

I'd like to arrange a tour of Raven during GPSL next year. The plan is to visit Raven on Thursday and hold the conference at CSBF on Friday. The launch would take place at CSBF on Saturday if that's possible.

This would be around the 4th of July, give or take a week or two.

Paul

On Sun, Jul 19, 2009 at 7:34 AM, Earl Foster <ebf306@...> wrote:

> Paul,
> I know the senior aerospace engineer at Aerostar (formly Raven). Can you
> tell me what you had in mind and I will approach him. He also knows all the
> main players at CSBF.
>
> Earl
> http://www.hapb.net
>
> _____
> > To: gpsl@yahoogroups.com; flaten@...
> > From: nearsys@...
> > Date: Sun, 19 Jul 2009 07:14:21 -0500
> > Subject: [GPSL] Hotel Problems
> >
> >
> >

> > Can everyone please send me your hotel complaints? Also lt me know if I
> can include your name with the complaints.
> >
> >
> >
> > I'd like to use them for fodder when I make my case with the hotel.
> >
> >
> >
> > It was a great GPSL and I really enjoyed hosting. I got a little scared
> there when I saw the balloon grade tag on the tanks.
> >
> >
> >
> > Overall, how many tanks were used? Can I get an idea of how tanks should
> still have gas so I can confirm with Linweld what the see?
> >
> >
> >
> > Anyone with contacts with Raven and CSBF, please email that information
> so we can start working on GPSL 2010.
> >
> >
> >
> > I'll get a slideShare account set up for GPSL. So please get your slides
> and notes togther so we can post them. I'll send out the password to the
> account privately. It can be shared with anyone, I just don't want to post
> it publically.
> >
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> >
> > Thanks
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> > Onwards and Upwards,
> > Paul
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> Windows Live™ Hotmail®: Search, add, and share the web’s latest sports
> videos. Check it out.
>
> http://www.windowslive.com/Online/Hotmail/Campaign/QuickAdd?ocid=TXT_TAGLM_WL_QA_HM_spor
ts_videos_072009&cat=sports
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5650. Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 14:06:01 UTC
From: L. Paul Verhage
Topic: 5650 Message: 5650

Ralph sent me some GPS posits that show K0NMS went higher. Are there other position reports out there?

Paul

W0NSV-11>/142800h3834.88N/09532.12W0280/040/A=104942 10.9V-08C HDOP01.0 SATS09
K0NMS-9>!3834.96N/09532.61WO289/039/A=105777
WB8ELK-11>/153842h3826.63N/09530.04WO282/033/A=103769

--
Onwards and Upwards,
Paul

5651. Latex balloon float in UK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 14:14:13 UTC
From: Ralph Wallio, W0RPK
Topic: 5651 Message: 5651

While recovering from GPSL2009 note that an ARHAB group in the UK has achieved extended float with
latex balloon BallastHalo2. See
http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm
for details and links.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

5652. GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 14:31:33 UTC
From: Zack Clobes
Topic: 5652 Message: 5652

First, who's balloon got stuck in the tree. I got so involved in getting it out, that I don't know who's we were recovering.

Secondly, has anyone heard anything from ARBONET? I tried calling Doug back a couple of times last night, but never got an answer.

Thanks for another good GPSL!

Zack Clobes, W0ZC
Project: Traveler

5653. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 14:38:04 UTC
From: Timothy Cathcart
Topic: 5652 Message: 5653

Zack,

That was us that got stuck in the tree. Ron and Tim from Michigan.. that for aiding to the extraction efforts.. It did not seem like it would be that much effort to me.. until we got up there closer then I was looking more and more confused how to tackle it.

Thanks again to everyone for your help.

Tim
KC8ZNJ

On Sun, Jul 19, 2009 at 10:31 AM, Zack Clobes <zclobes@...> wrote:

>
>
> First, who's balloon got stuck in the tree. I got so involved in getting
> it out, that I don't know who's we were recovering.
>
> Secondly, has anyone heard anything from ARBONET? I tried calling Doug
> back a couple of times last night, but never got an answer.
>
>
>
> Thanks for another good GPSL!
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>

--
Timothy Cathcart
RM&T Engineer
Grand Rapids, MI

5654. YouTube and SlideShare

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 15:13:09 UTC
From: L. Paul Verhage
Topic: 5654 Message: 5654

I've created a YouTube and SlideShare account for GPSL. The Youtube account is GreatPlainsSL1 and the SlideShar account is GreatPlainsSL.

I need to pass the passwords on to people, but don't want to do that publically. So email me in private if you would like the passwords. I'd like to see everyone post their vidoes and slides to these accounts.

Keith, can you add links to the superlanch website for the following?
www.youtube.com/GreaPlainsSL1
www.slideshare.net/GreatPlainsSL

--
Onwards and Upwards,
Paul

5655. RE: [GPSL] Hotel Problems

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 15:37:08 UTC
From: Earl Foster
Topic: 5646 Message: 5655

Paul

Just so there are no misunderstanding, I am assuming it is the Aerostar balloon manufacturing plant in Sulpur Springs, TX that you want to visit and if so I will talk to the senior aerospace engineer about GPSL2010 and getting some contacts for CSBF in Palestine TX.

Will get back to you shortly.

_____
Bing™ brings you maps, menus, and reviews organized in one place. Try it now.
http://www.bing.com/search?q=restaurants&form=MLOGEN&publ=WLHMTAG&crea=TXT_MLOGEN_Local_Local_Restaurants_1x1

5656. Re: [GPSL] Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 16:06:52 UTC
From: Keith Kaiser
Topic: 5650 Message: 5656

Near Space Ventures hit 104492.

W0NSV-11>APOTC1,WIDE1-1,WIDE2-2,qAR,W0JRT:/142800h3834.88N/
09532.12W0280/040/A=104942
10.9V-08C HDOP01.0 SATS09Near Space Ventures ARHAB
On Jul 19, 2009, at 9:06 AM, L. Paul Verhage wrote:

>
> Ralph sent me some GPS posits that show K0NMS went higher. Are
> there other position reports out there?
>
> Paul
>
> W0NSV-11>/142800h3834.88N/09532.12W0280/040/A=104942 10.9V-08C
> HDOP01.0 SATS09
> K0NMS-9>!3834.96N/09532.61WO289/039/A=105777
> WB8ELK-11>/153842h3826.63N/09530.04WO282/033/A=103769
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5657. Flight logs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 16:16:15 UTC
From: Keith Kaiser
Topic: 5657 Message: 5657

Aeronauts,

I've uploaded the flight log broken down by each ballon to the superlaunch.org web page. It's right at the top, if you have any problems let me know.

I can upload some pictures, or anything else you want too, so let me know what you would like to see. Keep in mind this will be our permanent home for the superlaunch.org web site. So keep using http://superlaunch.org for the URL eventually that is the address you will see in the address box.

73's
Keith Kaiser
wa0tjt@...

5658. Ralph's last month

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 16:26:02 UTC
From: Roger Hammond
Topic: 5658 Message: 5658

Was there any discussion at GPSL this year about who might take over for Ralph, W0RPK and all of his volunteer efforts?

Rog KC0MWM
CNNSP

5659. Re: [GPSL] Ralph's last month

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 16:29:27 UTC
From: Keith Kaiser
Topic: 5658 Message: 5659

I didn't re-think about this until the drive home. There was no conversation I'm aware of. But we need some soon so Ralph can have the retirement he so deserves.

On Jul 19, 2009, at 11:26 AM, Roger Hammond wrote:

> Was there any discussion at GPSL this year about who might take over
> for Ralph, W0RPK and all of his volunteer efforts?
>
> Rog KC0MWM
> CNNSP
>
>

73's
Keith Kaiser
wa0tjt@...

5660. Re: [GPSL] Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 18:13:29 UTC
From: Mark Conner
Topic: 5650 Message: 5660

Wasn't K0NMS-9 on the NSV flight string?

Mark

On 07/19/2009, Keith Kaiser <wa0tjt@...> wrote:
> Near Space Ventures hit 104492.
>
> W0NSV-11>APOTC1,WIDE1-1,WIDE2-2,qAR,W0JRT:/142800h3834.88N/
> 09532.12W0280/040/A=104942
> 10.9V-08C HDOP01.0 SATS09Near Space Ventures ARHAB
> On Jul 19, 2009, at 9:06 AM, L. Paul Verhage wrote:
>
>>
>> Ralph sent me some GPS posits that show K0NMS went higher. Are
>> there other position reports out there?
>>
>> Paul
>>
>> W0NSV-11>/142800h3834.88N/09532.12W0280/040/A=104942 10.9V-08C
>> HDOP01.0 SATS09
>> K0NMS-9>!3834.96N/09532.61WO289/039/A=105777
>> WB8ELK-11>/153842h3826.63N/09530.04WO282/033/A=103769
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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>
> 73's
> Keith Kaiser
> wa0tjt@...
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Sent from my mobile device

5661. Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 18:14:53 UTC
From: Keith Kaiser
Topic: 961 Message: 5661

If everyone would send me 5 or 10 of their best GPSL 2009 photos I'll put them all together on the superlaunch.org page. That way we don't walk all over the Internet looking for a collection of photos.

73's
Keith Kaiser
wa0tjt@...

5662. Re: [GPSL] Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 18:42:07 UTC
From: Zack Clobes
Topic: 961 Message: 5662

You can pick my best photos off of my blog if you'd like.

http://rosincore.blogspot.com/2009/07/great-plains-super-launch-2009.html

Zack Clobes, W0ZC

On Sun, Jul 19, 2009 at 1:14 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> If everyone would send me 5 or 10 of their best GPSL 2009 photos I'll
> put them all together on the superlaunch.org page. That way we don't
> walk all over the Internet looking for a collection of photos.
>
> 73's
> Keith Kaiser
> wa0tjt@... <wa0tjt%40gmail.com>
>
>
>

5663. Re: [GPSL] Hotel Problems

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 18:51:40 UTC
From: L. Paul Verhage
Topic: 5646 Message: 5663

That's no misunderstanding.

Thanks

Paul

On Sun, Jul 19, 2009 at 10:37 AM, Earl Foster <ebf306@...> wrote:

>
> Paul
>
> Just so there are no misunderstanding, I am assuming it is the Aerostar
> balloon manufacturing plant in Sulpur Springs, TX that you want to visit and
> if so I will talk to the senior aerospace engineer about GPSL2010 and
> getting some contacts for CSBF in Palestine TX.
>
> Will get back to you shortly.
> _____
> Bing™ brings you maps, menus, and reviews organized in one place. Try it
> now.
>
> http://www.bing.com/search?q=restaurants&form=MLOGEN&publ=WLHMTAG&crea=TXT_MLOGEN_Local_
Local_Restaurants_1x1
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5664. Re: [GPSL] Flight logs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 18:55:36 UTC
From: L. Paul Verhage
Topic: 5657 Message: 5664

I discovered my second tracker was KD4STH-8 and not KD4STH-9. Does anyone
data from 144.39? I checked findu and only get 5 records during part of the
descent.

I'd like to see if I can met with someone and check the radiated power and
range.

Paul

On Sun, Jul 19, 2009 at 11:16 AM, Keith Kaiser <wa0tjt@...> wrote:

> Aeronauts,
>
> I've uploaded the flight log broken down by each ballon to the
> superlaunch.org web page. It's right at the top, if you have any
> problems let me know.
>
> I can upload some pictures, or anything else you want too, so let me
> know what you would like to see. Keep in mind this will be our
> permanent home for the superlaunch.org web site. So keep using
> http://superlaunch.org
> for the URL eventually that is the address you will see in the
> address box.
>
> 73's
> Keith Kaiser
> wa0tjt@...
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5665. Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 21:43:24 UTC
From: Nicholas Stich
Topic: 5650 Message: 5665

Mark,

Actually it was the other way around. NSV was on my second balloon's flight string. As a matter of fact Brian Short also had a package on that same string along with my Rino package.
Nick
K0NMS
>
> Wasn't K0NMS-9 on the NSV flight string?
>
> Mark

5666. Re: [GPSL] YouTube and SlideShare

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 22:18:02 UTC
From: Joe
Topic: 5654 Message: 5666

Hi Paul,

I just tried the to links, the top one is a page not found, and the
bottom works but no one has published to it yet.

Just thought I'd let ya know about the YouTube ome tho.

Joe WB9SBD

L. Paul Verhage wrote:

>
>
> I've created a YouTube and SlideShare account for GPSL. The Youtube
> account is GreatPlainsSL1 and the SlideShar account is GreatPlainsSL.
>
> I need to pass the passwords on to people, but don't want to do that
> publically. So email me in private if you would like the passwords.
> I'd like to see everyone post their vidoes and slides to these accounts.
>
> Keith, can you add links to the superlanch website for the following?
> www.youtube.com/GreaPlainsSL1 <http://www.youtube.com/GreaPlainsSL1>
> www.slideshare.net/GreatPlainsSL <http://www.slideshare.net/GreatPlainsSL>
>
> --
> Onwards and Upwards,
> Paul
>
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.20/2248 - Release Date: 07/19/09 05:57:00
>
>
>

5667. SpaceJam 3 (BASE 38 and 39) flights completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-19 23:36:43 UTC
From: BASE
Topic: 5667 Message: 5667

Dear friends,

I've returned to internet access after a great weekend with the Scouts. I'll briefly highlight the two flights.

First, the things that went wrong (which Mike Manes always reminds us will happen).

1) The Amateur Television didn't fly. Zach's CH 59 camera (434 MHz) wasn't a good fit to the receiving equipment. My attempt to build and test my first ATV pod with supporting parts from Brian Walker in the field with less than twelve hours to launch time, failed to pass the preflight test at T minus 6 hrs.

2) The first balloon attached to BASE 39 removed itself from the float valve as the payload string was being raised.

3) The float valve did not work and BASE 39 went to burst altitude (99,300 feet according to the 900 MHz spread spectrum data). This meant that I had two flights descending at the same time!

4) The GPS on APRS radio (N9QGS-11) on BASE 38, gave 2D information for a lot of the flight. We believe the problem was caused by spinning payloads that limited the locking ability of the GPS unit (it performed better previously). Thank goodness for Bill Brown's DominoEx unit, it made the recovery much easier.

Now the good!

Both flights were recovered with minimal problem. BASE 39 landed in a soybean field 21 miles from the launch site. BASE 38 landed just southeast of Catlin, IL in a mowed path next to a drainage ditch in the middle of a corn field 29 miles from the launch site. I will attempt to determine the peak altitude for BASE 38, by using the data from both flights.

The Scouts enjoyed the flights, the workings of the cross band repeater, and the excitement of the three balloon launches (only two with payloads)!

Cross band repeater was in almost continuous use throughout the high altitude portion of the ascent. Contacts covered great distances with one earth balloon earth contact going between Walbridge OH and Mexico MO (470+ miles)

As always, more information to follow on www.depauw.edu/acad/physics/base.

SpaceJam 4 will be on August 6-8,2010 in Rantoul, IL. Hope the GPSL 2010 is on a different weekend.

Thanks for all of your support,
Howard

5668. Re: [GPSL] Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 00:17:52 UTC
From: L. Paul Verhage
Topic: 5650 Message: 5668

Okay, so what address am I suppose to send the Inventek GPS to?

Paul

On Sun, Jul 19, 2009 at 4:43 PM, Nicholas Stich <NStich@...> wrote:

> Mark,
>
> Actually it was the other way around. NSV was on my second balloon's
> flight string. As a matter of fact Brian Short also had a package on that
> same string along with my Rino package.
> Nick
> K0NMS
> >
> > Wasn't K0NMS-9 on the NSV flight string?
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> > Mark
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5669. Re: [GPSL] YouTube and SlideShare

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 00:22:40 UTC
From: L. Paul Verhage
Topic: 5654 Message: 5669

I just checked. Try ths link, I copied it from the URL window.

http://www.slideshare.net/GreatPlainsSL

Paul

On Sun, Jul 19, 2009 at 5:18 PM, Joe <nss@...> wrote:

>
>
> Hi Paul,
>
> I just tried the to links, the top one is a page not found, and the
> bottom works but no one has published to it yet.
>
> Just thought I'd let ya know about the YouTube ome tho.
>
> Joe WB9SBD
>
> L. Paul Verhage wrote:
>
> I've created a YouTube and SlideShare account for GPSL. The Youtube
> account is GreatPlainsSL1 and the SlideShar account is GreatPlainsSL.
>
> I need to pass the passwords on to people, but don't want to do that
> publically. So email me in private if you would like the passwords. I'd
> like to see everyone post their vidoes and slides to these accounts.
>
> Keith, can you add links to the superlanch website for the following?
> www.youtube.com/GreaPlainsSL1
> www.slideshare.net/GreatPlainsSL
>
> --
> Onwards and Upwards,
> Paul
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.20/2248 - Release Date: 07/19/09 05:57:00
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Onwards and Upwards,
Paul

5670. RE: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 00:33:54 UTC
From: Doug Loughmiller
Topic: 5652 Message: 5670

Hi Zack,

Sorry I missed your calls last night. I got home a little while ago and saw your question. We were unsuccessful (at least so far) in recovering the payload. We simply didn't have enough data to narrow the search area down and I'm sure the batteries were depleted by the time we headed back to Topeka. Lesson learned for us was to make sure we have a low power beacon on board with an oversized battery so that we know we have at least some RF coming off of the package for an extended period of time. Michael and I are both disappointed that we lost the package but we gain data and learned a lot so it wasn't a total loss.

I want to thank you and the others for you offer to help us search for the package. I am hoping when harvest time comes around that we get a call from someone who has found our package in their corn field.

I lived in Kansas many years ago so I enjoyed traveling the country side again. Michael and I really enjoyed our first GPSL and plan to participate again next year. Thanks for making us feel so welcome.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Sunday, July 19, 2009 9:32 AM
To: Group GPSL
Subject: [GPSL] GPSL Questions

First, who's balloon got stuck in the tree. I got so involved in getting it out, that I don't know who's we were recovering.

Secondly, has anyone heard anything from ARBONET? I tried calling Doug back a couple of times last night, but never got an answer.

Thanks for another good GPSL!

Zack Clobes, W0ZC
Project: Traveler

5671. Re: [GPSL] YouTube and SlideShare

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 01:05:53 UTC
From: Joe
Topic: 5654 Message: 5671

slideshare alweays did work the You tube url was bad

L. Paul Verhage wrote:

>
>
> I just checked. Try ths link, I copied it from the URL window.
>
> http://www.slideshare.net/GreatPlainsSL
>
> Paul
>
> On Sun, Jul 19, 2009 at 5:18 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
>
>
>
> Hi Paul,
>
> I just tried the to links, the top one is a page not found, and
> the bottom works but no one has published to it yet.
>
> Just thought I'd let ya know about the YouTube ome tho.
>
> Joe WB9SBD
>
> L. Paul Verhage wrote:
>
>> I've created a YouTube and SlideShare account for GPSL.
>> The Youtube account is GreatPlainsSL1 and the SlideShar account
>> is GreatPlainsSL.
>>
>> I need to pass the passwords on to people, but don't want to do
>> that publically. So email me in private if you would like the
>> passwords. I'd like to see everyone post their vidoes and slides
>> to these accounts.
>>
>> Keith, can you add links to the superlanch website for the following?
>> www.youtube.com/GreaPlainsSL1 <http://www.youtube.com/GreaPlainsSL1>
>> www.slideshare.net/GreatPlainsSL
>> <http://www.slideshare.net/GreatPlainsSL>
>>
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>> Onwards and Upwards,
>> Paul

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>>No virus found in this incoming message.
>>Checked by AVG - www.avg.com <http://www.avg.com/>
>>Version: 8.5.392 / Virus Database: 270.13.20/2248 - Release Date: 07/19/09 05:57:00
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> Onwards and Upwards,
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.20/2249 - Release Date: 07/19/09 17:59:00
>
>
>

5672. KPC-3+ Microprocessor on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 01:45:07 UTC
From: Steve
Topic: 5672 Message: 5672

All -

There is currently an MC68HC11F1CFN3 Microprocessor for sale on eBay for $10.00 w/ free shipping - good deal. (Item number: 180358756146). This is the uP for the Kantronics KPC-3+, if anyone needs a spare.

Tnx - Steve Osborne KC0YA (EOSS)

5673. Re: [GPSL] SpaceJam 3 (BASE 38 and 39) flights completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 03:05:45 UTC
From: Mike Manes
Topic: 5667 Message: 5673

Hi Howard,

Well, congratulations on achieving mission success, despite Murphy having focussed on BASE instead of GPSL! Many are thankful for that, I assure you. EOSS-144 had its oopsie with an accidentally disconnected BNC on the ATV feedline - probably from just prior to launch. Apparently the safety line intended to prevent the BNC from rotating due to feedline torsion failed to perform its function.

And so perfection once again eludes the two of us, and perhaps others. If flawless flights ever become routine, I'll find a more exciting hobby, like stamp collecting :=}.

73 de Mike W5VSI
CTO EOSS

BASE wrote:
> Dear friends,
>
> I've returned to internet access after a great weekend with the Scouts. I'll briefly highlight the two flights.
>
> First, the things that went wrong (which Mike Manes always reminds us will happen).
>
> 1) The Amateur Television didn't fly. Zach's CH 59 camera (434 MHz) wasn't a good fit to the receiving equipment. My attempt to build and test my first ATV pod with supporting parts from Brian Walker in the field with less than twelve hours to launch time, failed to pass the preflight test at T minus 6 hrs.
>
> 2) The first balloon attached to BASE 39 removed itself from the float valve as the payload string was being raised.
>
> 3) The float valve did not work and BASE 39 went to burst altitude (99,300 feet according to the 900 MHz spread spectrum data). This meant that I had two flights descending at the same time!
>
> 4) The GPS on APRS radio (N9QGS-11) on BASE 38, gave 2D information for a lot of the flight. We believe the problem was caused by spinning payloads that limited the locking ability of the GPS unit (it performed better previously). Thank goodness for Bill Brown's DominoEx unit, it made the recovery much easier.
>
> Now the good!
>
> Both flights were recovered with minimal problem. BASE 39 landed in a soybean field 21 miles from the launch site. BASE 38 landed just southeast of Catlin, IL in a mowed path next to a drainage ditch in the middle of a corn field 29 miles from the launch site. I

will attempt to determine the peak altitude for BASE 38, by using the data from both flights.
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> The Scouts enjoyed the flights, the workings of the cross band repeater, and the excitement of the three balloon launches (only two with payloads)!
>
> Cross band repeater was in almost continuous use throughout the high altitude portion of the ascent. Contacts covered great distances with one earth balloon earth contact going between Walbridge OH and Mexico MO (470+ miles)
>
> As always, more information to follow on www.depauw.edu/acad/physics/base.
>
> SpaceJam 4 will be on August 6-8,2010 in Rantoul, IL. Hope the GPSL 2010 is on a different weekend.
>
> Thanks for all of your support,
> Howard
>
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> ---
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5674. Re: [GPSL] Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 02:19:23 UTC
From: Keith Kaiser
Topic: 5650 Message: 5674

Paul,

Just send it to me. Nick and company are all part of NSV as well. The GPS will be used for NSV flights, so it is the most likely place to send it. We'll share it's use and it was our call... LOL

Keith Kaiser
Near Space Ventures
6024 N Ames
Kansas City, MO 64151

On Jul 19, 2009, at 7:17 PM, L. Paul Verhage wrote:

> Okay, so what address am I suppose to send the Inventek GPS to?
>
> Paul
>
> On Sun, Jul 19, 2009 at 4:43 PM, Nicholas Stich <NStich@...>
> wrote:
> Mark,
>
> Actually it was the other way around. NSV was on my second
> balloon's flight string. As a matter of fact Brian Short also had a
> package on that same string along with my Rino package.
> Nick
> K0NMS
> >
> > Wasn't K0NMS-9 on the NSV flight string?
> >
> > Mark
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> ------------------------------------
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> Yahoo! Groups Links
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> --
> Onwards and Upwards,

> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

5675. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 03:26:50 UTC
From: Mike Manes
Topic: 5652 Message: 5675

Hi Doug,

What a bummer. And another testament to never giving Murphy an even break.

EOSS has learned the value of that backup DF beacon more times than we care to recall, going back to EOSS-1 in 1990 and most recently just last fall, when the primary APRS tracker suffered an xmtr or antenna failure - which we were unable to duplicate on the ground. It was a 0.9 lb totally independent DF beacon with 48+ hrs of battery life that affected our recovery. Cheap insurance.

I did enjoy watching your launch on Bill's BATC video link, and wish you guys great success with flying the parachute on the bottom. Sure makes for a leisurely ascent! But descent could be a lot swifter than expected if the payload falls into the parachute canopy on burst/release. It's happened during PBC even with conventional flight string configurations - even at JPL!

73 de Mike W5VSI
CTO EOSS

Doug Loughmiller wrote:
>
>
> Hi Zack,
>
>
>
> Sorry I missed your calls last night. I got home a little while ago and
> saw your question. We were unsuccessful (at least so far) in recovering
> the payload. We simply didn’t have enough data to narrow the search area
> down and I’m sure the batteries were depleted by the time we headed back
> to Topeka. Lesson learned for us was to make sure we have a low power
> beacon on board with an oversized battery so that we know we have at
> least some RF coming off of the package for an extended period of time.
> Michael and I are both disappointed that we lost the package but we gain
> data and learned a lot so it wasn’t a total loss.
>
>
>
> I want to thank you and the others for you offer to help us search for
> the package. I am hoping when harvest time comes around that we get a
> call from someone who has found our package in their corn field.
>
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>
> I lived in Kansas many years ago so I enjoyed traveling the country side

> again. Michael and I really enjoyed our first GPSL and plan to
> participate again next year. Thanks for making us feel so welcome.
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> **73,**
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>
> **Doug, W5BL**
>
> ---
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *Zack Clobes
> *Sent:* Sunday, July 19, 2009 9:32 AM
> *To:* Group GPSL
> *Subject:* [GPSL] GPSL Questions
>
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>
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>
> First, who's balloon got stuck in the tree. I got so involved in
> getting it out, that I don't know who's we were recovering.
>
> Secondly, has anyone heard anything from ARBONET? I tried calling Doug
> back a couple of times last night, but never got an answer.
>
>
>
> Thanks for another good GPSL!
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
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>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5676. Re: [GPSL] Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 02:50:01 UTC
From: Mark Conner
Topic: 5650 Message: 5676

OK, thanks - I had kind of lost track of who was doing what that morning.

Congrats to Paul on another great GPSL, his third (2001, 2002, and now 2009). I'm glad we were able to fly from KATS - that was pretty convenient, and ATC coordination also went smoothly thanks to Zack W0ZC agreeing to some arm-twisting. :)

Enjoyed meeting all of you - see you next time!

73 de Mark N9XTN
www.nstar.org

On Sun, Jul 19, 2009 at 16:43, Nicholas Stich<NStich@...> wrote:
> Mark,
>
> Actually it was the other way around. NSV was on my second balloon's flight string. As a matter of fact Brian Short also had a package on that same string along with my Rino package.
> Nick
> K0NMS
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>> Wasn't K0NMS-9 on the NSV flight string?
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>> Mark
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> Yahoo! Groups Links
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5677. RE: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 03:00:50 UTC
From: Doug Loughmiller
Topic: 5652 Message: 5677

Hi Mike,

Thanks for your note. Well, Michael and I are not too bummed as we learned a lot and absolutely enjoyed the GPSL. As you are probably aware, this was our first meeting but it won't be our last. Yes, the parachute on the bottom was a challenge and not well implemented as we planned to but some weight at the very bottom to try to hold it taught but in our haste to get off the ground we managed to fail to but the weight on. You're right it is a slow ascent!

We managed to get a lot of useful data and like I say, we learned a lot.

I particularly enjoyed meeting the folks from your group. And I can't tell all of you how much Michael and I appreciated the offers to help us search for the package once word got back to everyone that we had a problem. I am very impressed with the passion of your team. I mentioned to Marty and others last night at dinner, that I would like to come up and participate in a flight with your group some time so maybe I can arrange a trip up to do that one of these days.

Take care and thanks for the words of advice. We knew better and made several mistakes. This wasn't one of our finest hours but nevertheless, we had fun!

73,

Doug, W5BL
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Sunday, July 19, 2009 10:27 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Questions

Hi Doug,

What a bummer. And another testament to never giving Murphy an even break.

EOSS has learned the value of that backup DF beacon more times than we care to
recall, going back to EOSS-1 in 1990 and most recently just last fall, when the primary APRS tracker suffered an xmtr or antenna failure - which we were unable to duplicate on the ground. It was a 0.9 lb totally independent DF beacon with 48+ hrs of battery life that affected our recovery. Cheap insurance.

I did enjoy watching your launch on Bill's BATC video link, and wish you guys

great success with flying the parachute on the bottom. Sure makes for a leisurely ascent! But descent could be a lot swifter than expected if the payload falls into the parachute canopy on burst/release. It's happened during PBC even with conventional flight string configurations - even at JPL!

73 de Mike W5VSI
CTO EOSS

Doug Loughmiller wrote:
>
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> Hi Zack,
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> Sorry I missed your calls last night. I got home a little while ago and
> saw your question. We were unsuccessful (at least so far) in recovering
> the payload. We simply didn't have enough data to narrow the search area
> down and I'm sure the batteries were depleted by the time we headed back
> to Topeka. Lesson learned for us was to make sure we have a low power
> beacon on board with an oversized battery so that we know we have at
> least some RF coming off of the package for an extended period of time.
> Michael and I are both disappointed that we lost the package but we gain
> data and learned a lot so it wasn't a total loss.
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> I want to thank you and the others for you offer to help us search for
> the package. I am hoping when harvest time comes around that we get a
> call from someone who has found our package in their corn field.
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> I lived in Kansas many years ago so I enjoyed traveling the country side
> again. Michael and I really enjoyed our first GPSL and plan to
> participate again next year. Thanks for making us feel so welcome.
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> **73,**
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>
> **Doug, W5BL**
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> *Zack Clobes
> *Sent:* Sunday, July 19, 2009 9:32 AM
> *To:* Group GPSL
> *Subject:* [GPSL] GPSL Questions
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> First, who's balloon got stuck in the tree. I got so involved in
> getting it out, that I don't know who's we were recovering.
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> Secondly, has anyone heard anything from ARBONET? I tried calling Doug
> back a couple of times last night, but never got an answer.
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>
>
> Thanks for another good GPSL!
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

5678. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 03:08:59 UTC
From: Joe
Topic: 5652 Message: 5678

This all just brings back memories of probably the first ohhh,, 15
flights we had?

ALL DFing, GPS units either werent around yet or cost kilobucks, and
weighed a ton.

These flights were the ultimate FOX hunt!

I am amazed we still got every one back. 47 launched and 47 recovered.
yeah!

Joe WB9SBD
Near Space Sciences

Doug Loughmiller wrote:

>Hi Mike,
>
>Thanks for your note. Well, Michael and I are not too bummed as we learned a
>lot and absolutely enjoyed the GPSL. As you are probably aware, this was our
>first meeting but it won't be our last. Yes, the parachute on the bottom was
>a challenge and not well implemented as we planned to but some weight at the
>very bottom to try to hold it taught but in our haste to get off the ground
>we managed to fail to but the weight on. You're right it is a slow ascent!
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>We managed to get a lot of useful data and like I say, we learned a lot.
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>all of you how much Michael and I appreciated the offers to help us search
>for the package once word got back to everyone that we had a problem. I am
>very impressed with the passion of your team. I mentioned to Marty and
>others last night at dinner, that I would like to come up and participate in
>a flight with your group some time so maybe I can arrange a trip up to do
>that one of these days.
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>Take care and thanks for the words of advice. We knew better and made
>several mistakes. This wasn't one of our finest hours but nevertheless, we
>had fun!
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>73,
>
>Doug, W5BL
>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>Manes
>Sent: Sunday, July 19, 2009 10:27 PM

>To: GPSL@yahoogroups.com
>Subject: Re: [GPSL] GPSL Questions
>
>Hi Doug,
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>What a bummer. And another testament to never giving Murphy an even break.
>
>EOSS has learned the value of that backup DF beacon more times than we care
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>recall, going back to EOSS-1 in 1990 and most recently just last fall, when
>the primary APRS tracker suffered an xmtr or antenna failure - which we were
>unable to duplicate on the ground. It was a 0.9 lb totally independent DF
>beacon with 48+ hrs of battery life that affected our recovery. Cheap
>insurance.
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>I did enjoy watching your launch on Bill's BATC video link, and wish you
>guys
>great success with flying the parachute on the bottom. Sure makes for a
>leisurely ascent! But descent could be a lot swifter than expected if the
>payload falls into the parachute canopy on burst/release. It's happened
>during PBC even with conventional flight string configurations - even at
>JPL!
>
>73 de Mike W5VSI
>CTO EOSS
>
>Doug Loughmiller wrote:
>
>
>>Hi Zack,
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>>
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>>Sorry I missed your calls last night. I got home a little while ago and
>>saw your question. We were unsuccessful (at least so far) in recovering
>>the payload. We simply didn't have enough data to narrow the search area
>>down and I'm sure the batteries were depleted by the time we headed back
>>to Topeka. Lesson learned for us was to make sure we have a low power
>>beacon on board with an oversized battery so that we know we have at
>>least some RF coming off of the package for an extended period of time.
>>Michael and I are both disappointed that we lost the package but we gain
>>data and learned a lot so it wasn't a total loss.
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>>I want to thank you and the others for you offer to help us search for
>>the package. I am hoping when harvest time comes around that we get a
>>call from someone who has found our package in their corn field.
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>>I lived in Kansas many years ago so I enjoyed traveling the country side
>>again. Michael and I really enjoyed our first GPSL and plan to
>>participate again next year. Thanks for making us feel so welcome.
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>>**73,**
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>>**Doug, W5BL**
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>>*Sent:* Sunday, July 19, 2009 9:32 AM
>>*To:* Group GPSL
>>*Subject:* [GPSL] GPSL Questions
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>>First, who's balloon got stuck in the tree. I got so involved in
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>>Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>>back a couple of times last night, but never got an answer.
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>>Thanks for another good GPSL!
>>
>>Zack Clobes, W0ZC
>>Project: Traveler
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.20/2249 - Release Date: 07/19/09 17:59:00
>
>
>

5679. Re: [GPSL] What was everybody flying at GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 03:23:15 UTC
From: Mark Conner
Topic: 5648 Message: 5679

NSTAR had four "systems" flying:

Canon PowerShot A560 with CHDK firmware taking pix every 15 seconds
BasicStamp 2p connected to a Garmin GPS-35, Alinco DJ-190, a TinyTrak3
with a modified firmware chip in it, MAX186 ADC, and temp/baro sensors
and EEPROMs for logging (main payload)
TinyTrak3 connected to Yaesu VX-2R and Garmin GPS-18
ADS-SR1 simplex repeater connected to Yaesu VX-1R

Payloads consisted of nylon lunch coolers with foam inserts.

73 de Mark N9XTN

On Sun, Jul 19, 2009 at 08:24, Bruce Coates<bruce.coates@...> wrote:
>
>
> Hi everyone
>
> I was just curious what everyone was flying as their payloads.
>
> 73, Bruce
> VE5BNC
> http://ve5aa.dyndns.org
>
>

5680. Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 06:38:20 UTC
From: Nicholas Stich
Topic: 5650 Message: 5680

Paul,

Send it to Keith BUT

I want the record set straight. I did not register as HabitatSkyLab and I did not register as NSV -- I registered as Nick Stich K0NMS. I have flown under that name and call for several years.

I fly as an independent person with lots of help from friends chasing and recovering my packages.

Nick Stich
KØNMS
WPWG368

>
> Paul,
>
> Just send it to me. Nick and company are all part of NSV as well. The
> GPS will be used for NSV flights, so it is the most likely place to
> send it. We'll share it's use and it was our call... LOL
>
> Keith Kaiser
> Near Space Ventures
> 6024 N Ames
> Kansas City, MO 64151
>
> On Jul 19, 2009, at 7:17 PM, L. Paul Verhage wrote:
>
> >
> > Okay, so what address am I suppose to send the Inventek GPS to?
> >
> > Paul
> >
> > On Sun, Jul 19, 2009 at 4:43 PM, Nicholas Stich <NStich@...>
> > wrote:
> > Mark,
> >
> > Actually it was the other way around. NSV was on my second
> > balloon's flight string. As a matter of fact Brian Short also had a
> > package on that same string along with my Rino package.
> > Nick
> > K0NMS
> > >
> > > Wasn't K0NMS-9 on the NSV flight string?
> > >

> > > Mark

5681. Re: [GPSL] SpaceJam 3 (BASE 38 and 39) flights completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 11:34:49 UTC
From: BASE
Topic: 5667 Message: 5681

Dear Mark,

I'm checking with the other guys that listened more continuously to the cross band repeater. It did fly on the first balloon that launched at 8:30 CDT. Our balloons did overlap very well. At 8:55, our balloon was at 25000 feet ASL and Bill was at 18000 feet ASL. Our combined radio horizon would be 415 miles at that time, just about the Great Circle distance between the two balloons. Our balloon was at 98 kft at 10 AM and Bill was at 75 kft.

The repeater was very busy by the time that I got our second balloon up and packed all of the launch equipment away.

Next time, I will record the cross band transmissions for the whole flight. I'll let everyone know what I learn.

Thanks for asking,
Howard

--- On Sun, 7/19/09, Mark Conner <mconner1@...> wrote:

> From: Mark Conner <mconner1@...>
> Subject: Re: [GPSL] SpaceJam 3 (BASE 38 and 39) flights completed
> To: basedepauw@...
> Date: Sunday, July 19, 2009, 10:41 PM
> Hi Howard,
>
> Did you happen to hear any DominoEX traffic from Bill's
> balloon on the
> crossband repeater? I'm not sure from your e-mails
> whether it went on
> the first or second balloon. Bill launched late
> enough that there
> should have been some mutual visibility. We had
> Murphy teasing us
> that morning as it was, so we didn't want to tempt fate any
> more and
> let ours go at 8am CDT. Bill departed about 8:45 I
> think.
>
> 73 de Mark N9XTN
>
> On Sun, Jul 19, 2009 at 18:36, BASE<basedepauw@...>
> wrote:
> >
> > Dear friends,
> >

> > I've returned to internet access after a great weekend
> with the Scouts. I'll briefly highlight the two flights.
> >
> > First, the things that went wrong (which Mike Manes
> always reminds us will happen).
> >
> > 1) The Amateur Television didn't fly. Zach's CH 59
> camera (434 MHz) wasn't a good fit to the receiving
> equipment. My attempt to build and test my first ATV pod
> with supporting parts from Brian Walker in the field with
> less than twelve hours to launch time, failed to pass the
> preflight test at T minus 6 hrs.
> >
> > 2) The first balloon attached to BASE 39 removed
> itself from the float valve as the payload string was being
> raised.
> >
> > 3) The float valve did not work and BASE 39 went to
> burst altitude (99,300 feet according to the 900 MHz spread
> spectrum data). This meant that I had two flights
> descending at the same time!
> >
> > 4) The GPS on APRS radio (N9QGS-11) on BASE 38, gave
> 2D information for a lot of the flight. We believe the
> problem was caused by spinning payloads that limited the
> locking ability of the GPS unit (it performed better
> previously). Thank goodness for Bill Brown's DominoEx
> unit, it made the recovery much easier.
> >
> > Now the good!
> >
> > Both flights were recovered with minimal problem.
> BASE 39 landed in a soybean field 21 miles from the launch
> site. BASE 38 landed just southeast of Catlin, IL in a
> mowed path next to a drainage ditch in the middle of a corn
> field 29 miles from the launch site. I will attempt to
> determine the peak altitude for BASE 38, by using the data
> from both flights.
> >
> > The Scouts enjoyed the flights, the workings of the
> cross band repeater, and the excitement of the three balloon
> launches (only two with payloads)!
> >
> > Cross band repeater was in almost continuous use
> throughout the high altitude portion of the ascent. Contacts
> covered great distances with one earth balloon earth contact
> going between Walbridge OH and Mexico MO (470+ miles)
> >
> > As always, more information to follow on
> www.depauw.edu/acad/physics/base.

> >
> > SpaceJam 4 will be on August 6-8,2010 in Rantoul, IL.
> Hope the GPSL 2010 is on a different weekend.
> >
> > Thanks for all of your support,
> > Howard
> >
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> > Yahoo! Groups Links
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5682. Re: [GPSL] Re: Highest Flight Award

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 12:33:27 UTC
From: Keith Kaiser
Topic: 5650 Message: 5682

And I want to add that Nick and Jerome are the best chase team that GPSL has ever seen. They not only recovered their own ballon, then helped with the NSV ballon and then went on and helped with others besides.

All our pictures from GPSL, launch and recovery are at the following link with more coming; http://nearspaceventures.com/gpsl2009/gpsl2009photos/index2.html

On Jul 20, 2009, at 1:38 AM, Nicholas Stich wrote:

> Paul,
>
> Send it to Keith BUT
>
> I want the record set straight. I did not register as HabitatSkyLab
> and I did not register as NSV -- I registered as Nick Stich K0NMS. I
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> > Paul,
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> The
> > GPS will be used for NSV flights, so it is the most likely place to
> > send it. We'll share it's use and it was our call... LOL
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> > Keith Kaiser
> > Near Space Ventures
> > 6024 N Ames
> > Kansas City, MO 64151
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> > On Jul 19, 2009, at 7:17 PM, L. Paul Verhage wrote:
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> > > Okay, so what address am I suppose to send the Inventek GPS to?
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> > > Actually it was the other way around. NSV was on my second
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> > > > Wasn't K0NMS-9 on the NSV flight string?
> > > >
> > > > Mark
>
>
>

73's
Keith Kaiser
wa0tjt@...

5683. Re: [GPSL] SpaceJam 3 (BASE 38 and 39) flights completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 12:56:49 UTC
From: Ralph Wallio, W0RPK
Topic: 5667 Message: 5683

Howard and Mark --

Both NSTAR APRS and WB8ELK DominoEX22 were heard on 144.360 with the latter decoded here near Des
Moines for an extended period of time. N9XTN and I had a brief QSO via his NSTAR 446.300 simplex
repeater. I had two separate receivers and antennas (one was my OSCAR station including a Yagi and
mast-mount preamp) listening but I did not hear anything from the BASE-39 repeater downlink on
446.025.

The longest confirmed BASE-39 QSO so far is N8WAC<>NN0L 402mi (northwestern Ohio to eastern Iowa).
I am waiting for QSL e-mail to confirm the N8WAC<>N0UOE (eastern Missouri) QSO, potentially 471mi.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

5684. Re: [GPSL] BASE 39 and GPSL contacts

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 14:03:33 UTC
From: BASE
Topic: 5684 Message: 5684

Ralph,

Thanks for your information.

I checked with Ron, N9QGS, and he said that he did not hear any DominoEX 22 from Bill's balloon on the BASE 39 repeater.

We made no attempt to listen for the APRS string from NSTAR on the repeater at our ground station.

Howard

--- On Mon, 7/20/09, Ralph Wallio, W0RPK <W0RPK@...> wrote:

From: Ralph Wallio, W0RPK <W0RPK@netINS.net>
Subject: Re: [GPSL] SpaceJam 3 (BASE 38 and 39) flights completed
To: GPSL@yahoogroups.com
Date: Monday, July 20, 2009, 8:56 AM

Howard and Mark --

Both NSTAR APRS and WB8ELK DominoEX22 were heard on 144.360 with the latter decoded here near Des

Moines for an extended period of time. N9XTN and I had a brief QSO via his NSTAR 446.300 simplex

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446.025.

The longest confirmed BASE-39 QSO so far is N8WAC<>NN0L 402mi (northwestern Ohio to eastern Iowa).

I am waiting for QSL e-mail to confirm the N8WAC<>N0UOE (eastern Missouri) QSO, potentially 471mi.

TNX es 73 de Ralph Wallio, WØRPK

W0RPK@netINS. net W0RPK@... W0RPK@amsat. org

http://showcase. netins.net/ web/wallio/

Hubbert's Peak - The Mother of all Perfect Storms

5685. GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 15:41:05 UTC
From: Harry M
Topic: 5685 Message: 5685

I would like to thank Paul and everyone that had a hand in getting GPSL09 together. I really enjoyed it and also seeing old friends and meeting new ones.

ORB-25 flight terminated at burst at an altitude of 61,000 feet. On the chase, and when the balloon was about 5,000 feet on descent, I got stopped for speeding by a local sheriff between Ottowa & Princeton on Hwy-59. After a short delay that seemed like an eternity, and no ticket :), We were back on the road. Landing was 4.25 miles east of Hwy-59 (Princeton) on John Brown Rd. in a tree about 20 feet off the ground. We were able to drive to it and make the recovery.

Back at the Pizza Hut in Garnett I discovered that there was 1 sec of video on the Jazz camcorder and that was of the camera being lowered into the capsule. I must have pressed the stop button inadvertantly. There were 50 pics on the still camera and we viewed them, but on returning home, I have found that there are NO pics on the SD card. I have used two undelete programs and the pics are not in the undeleted files. They have just dissapeared!

My next step is to try and find a data recovery program. Does anyone know of a shareware SD card data recovery program?

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5687. Re: [GPSL] GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 16:05:59 UTC
From: Harry M
Topic: 5685 Message: 5687

PICTURES RECOVERED!

Apparently the camera did not save the pics to the SD card as it always does. All 50 pics were in the cameras internal memory.

Harry KC5TRB

5688. Re: [GPSL] GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 16:33:56 UTC
From: Roger Hammond
Topic: 5685 Message: 5688

You gotta love a happy ending.

Rog - KC0MWM
CNNSP

On Mon, Jul 20, 2009 at 11:05 AM, Harry M <hhm_74115@...> wrote:

>
>
> PICTURES RECOVERED!
>
> Apparently the camera did not save the pics to the SD card as it always
> does. All 50 pics were in the cameras internal memory.
>
> Harry KC5TRB
>
>
>
>
>

5689. Re: [GPSL] Re: Flight track

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 17:11:58 UTC
From: Keith Kaiser
Topic: 5640 Message: 5689

Then he wins. NSV only had 104491 (I think).

On Jul 20, 2009, at 10:47 AM, w0jrt wrote:

> What altitude did NSV report? Nick Stich's package, K0NMS-9,
> reported 105777 ft.
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > Keith, NSV won the highest altitude award. Can you give me an
> address to
> > send the GPS?
> >
> > Thanks,
> > Paul
>
>
>

73's
Keith Kaiser
wa0tjt@...

5690. Re: [GPSL] GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 16:41:21 UTC
From: Bruce Coates
Topic: 5685 Message: 5690

Hi Harry

That's great news. For future reference, I've had very good luck with Recuva. http://www.recuva.com/download It's a donationware utility. I used it after one flight to recover video from an SD card that had been knocked out of the camera after our parachute streamered.

Thanks also for asking me to help crew on your launch. It was great fun and I learned a few tricks that we can use on our balloons.

73, Bruce (and Leigh)
VE5BNC & VE5LEE
SABRE - http://ve5aa.dyndns.org

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Monday, July 20, 2009 11:05 AM
Subject: Re: [GPSL] GPSL ORB

PICTURES RECOVERED!

Apparently the camera did not save the pics to the SD card as it always does. All 50 pics were in the cameras internal memory.

Harry KC5TRB

5691. Thanks for GPSL 2009!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 16:49:54 UTC
From: Bruce Coates
Topic: 5691 Message: 5691

Hi

Leigh and I would like to thank Paul and everyone else that helped organize and execute GPSL. We had a ball. It was great to put some faces to the names I see on the list. We learned some new tricks and also found that some of the things we're doing aren't so crazy after all. We're off to Oklahoma this weekend and then back to Saskatoon (where it's actually warmer than it is down here right now).

I'm not sure if we can convince anyone to come down next year but I'll certainly give it a try.

73, Bruce & Leigh
VE5BNC & VE5LEE
SABRE - http://ve5aa.dyndns.org

5692. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 19:10:13 UTC
From: Mike Manes
Topic: 5652 Message: 5692

Hi Doug,

Balloonacy certainly provides an abundance of "teachable moments", and you'll experience many more as you continue pursuing this affliction.

And you and Micheal are more than welcome to join us on any of our flights out of CO. But you could probably dredge up 95% of what you could learn from a trip up here by browsing our web site, www.eoss.org. We have stuff up there that goes back nearly 20 years.

You might be able to get past the risk of letting the payload fall into the parachute canopy by adding a small pilot 'chute on a long line attached to the main 'chute apex. This might be enough to force the main 'chute go upright, thus dumping the payload back out where it belongs. Or not ... :=P

73 de Mike W5VSI

Doug Loughmiller wrote:
> Hi Mike,
>
> Thanks for your note. Well, Michael and I are not too bummed as we learned a
> lot and absolutely enjoyed the GPSL. As you are probably aware, this was our
> first meeting but it won't be our last. Yes, the parachute on the bottom was
> a challenge and not well implemented as we planned to but some weight at the
> very bottom to try to hold it taught but in our haste to get off the ground
> we managed to fail to but the weight on. You're right it is a slow ascent!
>
> We managed to get a lot of useful data and like I say, we learned a lot.
>
> I particularly enjoyed meeting the folks from your group. And I can't tell
> all of you how much Michael and I appreciated the offers to help us search
> for the package once word got back to everyone that we had a problem. I am
> very impressed with the passion of your team. I mentioned to Marty and
> others last night at dinner, that I would like to come up and participate in
> a flight with your group some time so maybe I can arrange a trip up to do
> that one of these days.
>
> Take care and thanks for the words of advice. We knew better and made
> several mistakes. This wasn't one of our finest hours but nevertheless, we
> had fun!
>
> 73,
>
> Doug, W5BL
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike

> Manes
> Sent: Sunday, July 19, 2009 10:27 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] GPSL Questions
>
> Hi Doug,
>
> What a bummer. And another testament to never giving Murphy an even break.
>
> EOSS has learned the value of that backup DF beacon more times than we care
> to
> recall, going back to EOSS-1 in 1990 and most recently just last fall, when
> the primary APRS tracker suffered an xmtr or antenna failure - which we were
> unable to duplicate on the ground. It was a 0.9 lb totally independent DF
> beacon with 48+ hrs of battery life that affected our recovery. Cheap
> insurance.
>
> I did enjoy watching your launch on Bill's BATC video link, and wish you
> guys
> great success with flying the parachute on the bottom. Sure makes for a
> leisurely ascent! But descent could be a lot swifter than expected if the
> payload falls into the parachute canopy on burst/release. It's happened
> during PBC even with conventional flight string configurations - even at
> JPL!
>
> 73 de Mike W5VSI
> CTO EOSS
>
> Doug Loughmiller wrote:
>>
>> Hi Zack,
>>
>>
>>
>> Sorry I missed your calls last night. I got home a little while ago and
>> saw your question. We were unsuccessful (at least so far) in recovering
>> the payload. We simply didn't have enough data to narrow the search area
>> down and I'm sure the batteries were depleted by the time we headed back
>> to Topeka. Lesson learned for us was to make sure we have a low power
>> beacon on board with an oversized battery so that we know we have at
>> least some RF coming off of the package for an extended period of time.
>> Michael and I are both disappointed that we lost the package but we gain
>> data and learned a lot so it wasn't a total loss.
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>> I want to thank you and the others for you offer to help us search for
>> the package. I am hoping when harvest time comes around that we get a
>> call from someone who has found our package in their corn field.
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>> I lived in Kansas many years ago so I enjoyed traveling the country side
>> again. Michael and I really enjoyed our first GPSL and plan to
>> participate again next year. Thanks for making us feel so welcome.
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>> **73,**
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>>
>> **Doug, W5BL**
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>> ---
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *Zack Clobes
>> *Sent:* Sunday, July 19, 2009 9:32 AM
>> *To:* Group GPSL
>> *Subject:* [GPSL] GPSL Questions
>>
>>
>>
>>
>>
>> First, who's balloon got stuck in the tree. I got so involved in
>> getting it out, that I don't know who's we were recovering.
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>> Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>> back a couple of times last night, but never got an answer.
>>
>>
>>
>> Thanks for another good GPSL!
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
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>>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

5693. Re: [GPSL] Thanks for GPSL 2009!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 18:15:25 UTC
From: L. Paul Verhage
Topic: 5691 Message: 5693

I want to thank Zack for helping out at the welcome table.

GPSL wouldn't have been the success it was without people like Mark giving
us the weather/flight report.

Thanks everyone for having a good time.

Paul

On Mon, Jul 20, 2009 at 11:49 AM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi
>
> Leigh and I would like to thank Paul and everyone else that helped
> organize and execute GPSL. We had a ball. It was great to put some faces
> to the names I see on the list. We learned some new tricks and also found
> that some of the things we're doing aren't so crazy after all. We're off to
> Oklahoma this weekend and then back to Saskatoon (where it's actually warmer
> than it is down here right now).
>
> I'm not sure if we can convince anyone to come down next year but I'll
> certainly give it a try.
>
> 73, Bruce & Leigh
> VE5BNC & VE5LEE
> SABRE - http://ve5aa.dyndns.org
>
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Onwards and Upwards,
Paul

5694. Re: [GPSL] Thanks for GPSL 2009!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 18:33:41 UTC
From: Harry M
Topic: 5691 Message: 5694

Give me a call when you come through Tulsa.

73 Harry KC5TRB

> We're off to Oklahoma this weekend and then back to Saskatoon...

5695. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 18:59:35 UTC
From: Joe
Topic: 5652 Message: 5695

Why was the chute UNDER the payload?

Mike Manes wrote:

>Hi Doug,
>
>Balloonacy certainly provides an abundance of "teachable moments", and you'll
>experience many more as you continue pursuing this affliction.
>
>And you and Micheal are more than welcome to join us on any of our flights
>out of CO. But you could probably dredge up 95% of what you could learn from
>a trip up here by browsing our web site, www.eoss.org. We have stuff up there
>that goes back nearly 20 years.
>
>You might be able to get past the risk of letting the payload fall into the
>parachute canopy by adding a small pilot 'chute on a long line attached to
>the main 'chute apex. This might be enough to force the main 'chute go
>upright, thus dumping the payload back out where it belongs. Or not ... :=P
>
>73 de Mike W5VSI
>
>Doug Loughmiller wrote:
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>>Hi Mike,
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>>Thanks for your note. Well, Michael and I are not too bummed as we learned a
>>lot and absolutely enjoyed the GPSL. As you are probably aware, this was our
>>first meeting but it won't be our last. Yes, the parachute on the bottom was
>>a challenge and not well implemented as we planned to but some weight at the
>>very bottom to try to hold it taught but in our haste to get off the ground
>>we managed to fail to but the weight on. You're right it is a slow ascent!
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>>We managed to get a lot of useful data and like I say, we learned a lot.
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>>I particularly enjoyed meeting the folks from your group. And I can't tell
>>all of you how much Michael and I appreciated the offers to help us search
>>for the package once word got back to everyone that we had a problem. I am
>>very impressed with the passion of your team. I mentioned to Marty and
>>others last night at dinner, that I would like to come up and participate in
>>a flight with your group some time so maybe I can arrange a trip up to do
>>that one of these days.
>>
>>Take care and thanks for the words of advice. We knew better and made
>>several mistakes. This wasn't one of our finest hours but nevertheless, we

>>had fun!
>>
>>73,
>>
>>Doug, W5BL
>>-----Original Message-----
>>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>>Manes
>>Sent: Sunday, July 19, 2009 10:27 PM
>>To: GPSL@yahoogroups.com
>>Subject: Re: [GPSL] GPSL Questions
>>
>>Hi Doug,
>>
>>What a bummer. And another testament to never giving Murphy an even break.
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>>EOSS has learned the value of that backup DF beacon more times than we care
>>to
>>recall, going back to EOSS-1 in 1990 and most recently just last fall, when
>>the primary APRS tracker suffered an xmtr or antenna failure - which we were
>>unable to duplicate on the ground. It was a 0.9 lb totally independent DF
>>beacon with 48+ hrs of battery life that affected our recovery. Cheap
>>insurance.
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>>I did enjoy watching your launch on Bill's BATC video link, and wish you
>>guys
>>great success with flying the parachute on the bottom. Sure makes for a
>>leisurely ascent! But descent could be a lot swifter than expected if the
>>payload falls into the parachute canopy on burst/release. It's happened
>>during PBC even with conventional flight string configurations - even at
>>JPL!
>>
>>73 de Mike W5VSI
>>CTO EOSS
>>
>>Doug Loughmiller wrote:
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>>
>>>>Hi Zack,
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>>>Sorry I missed your calls last night. I got home a little while ago and
>>>saw your question. We were unsuccessful (at least so far) in recovering
>>>the payload. We simply didn't have enough data to narrow the search area
>>>down and I'm sure the batteries were depleted by the time we headed back
>>>to Topeka. Lesson learned for us was to make sure we have a low power
>>>beacon on board with an oversized battery so that we know we have at
>>>least some RF coming off of the package for an extended period of time.
>>>Michael and I are both disappointed that we lost the package but we gain

>>>data and learned a lot so it wasn't a total loss.
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>>>I want to thank you and the others for you offer to help us search for
>>>the package. I am hoping when harvest time comes around that we get a
>>>call from someone who has found our package in their corn field.
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>>>again. Michael and I really enjoyed our first GPSL and plan to
>>>participate again next year. Thanks for making us feel so welcome.
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>>>**Doug, W5BL**
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>>>---
>>>
>>>*From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>>*Zack Clobes
>>>*Sent:* Sunday, July 19, 2009 9:32 AM
>>>*To:* Group GPSL
>>>*Subject:* [GPSL] GPSL Questions
>>>
>>>
>>>
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>>>First, who's balloon got stuck in the tree. I got so involved in
>>>getting it out, that I don't know who's we were recovering.
>>>
>>>Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>>>back a couple of times last night, but never got an answer.
>>>
>>>
>>>
>>>Thanks for another good GPSL!
>>>
>>>Zack Clobes, W0ZC
>>>Project: Traveler

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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.20/2250 - Release Date: 07/20/09 06:16:00
>
>
>

5696. RE: [GPSL] GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 20:16:35 UTC
From: Rick von Glahn
Topic: 5685 Message: 5696

Ah, excellent. Disregard my previous :-)

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Monday, July 20, 2009 10:06 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL ORB

PICTURES RECOVERED!

Apparently the camera did not save the pics to the SD card as it always does. All 50 pics were in the cameras internal memory.

Harry KC5TRB

No virus found in this incoming message.
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5697. RE: [GPSL] GPSL ORB

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 20:14:23 UTC
From: Rick von Glahn
Topic: 5685 Message: 5697

Go to:

http://www.pcinspector.de/

Download their tool. It's free and has worked fine for me in the past.

Just be sure to not low level format, or write any data to the SD card before doing a recovery. But, somehow, I don't think I need mention that here.

I was going to send along the San Disk Recovery Pro program to you but it is so locked down it isn't funny. Strange, they should be giving that away for FREE. It would make for very happy customers when they lose valuable pix. Oh well, pcinspector is fine.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Monday, July 20, 2009 9:41 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL ORB

I would like to thank Paul and everyone that had a hand in getting GPSL09 together. I really enjoyed it and also seeing old friends and meeting new ones.

ORB-25 flight terminated at burst at an altitude of 61,000 feet. On the chase, and when the balloon was about 5,000 feet on descent, I got stopped for speeding by a local sheriff between Ottowa & Princeton on Hwy-59. After a short delay that seemed like an eternity, and no ticket :), We were back on the road. Landing was 4.25 miles east of Hwy-59 (Princeton) on John Brown Rd. in a tree about 20 feet off the ground. We were able to drive to it and make the recovery.

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My next step is to try and find a data recovery program. Does anyone know of a shareware SD card data recovery program?

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Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
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06:16:00

5698. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 00:41:27 UTC
From: Mike Manes
Topic: 5652 Message: 5698

Hi Joe,

The guys from Maine do that to slow down the ascent rate in order to extend the flight duration and go farther downrange (in the winter). Not sure what ARBONET's goal might have been, but it sure slowed the ascent!

73 de Mike W5VSI

Joe wrote:
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> Mike Manes wrote:
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5699. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 23:51:19 UTC
From: Joe
Topic: 5652 Message: 5699

Ummm, Why not just use less lift like we do? Then it will stay slow all
the way up.

I don't have the data but I bet the rate of climb sped up as it got higher.

Joe WB9SBD

Mike Manes wrote:

>Hi Joe,
>
>The guys from Maine do that to slow down the ascent rate in order to extend
>the flight duration and go farther downrange (in the winter). Not sure what
>ARBONET's goal might have been, but it sure slowed the ascent!
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>73 de Mike W5VSI
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>Joe wrote:
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>>Why was the chute UNDER the payload?
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>>Mike Manes wrote:
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>>>Hi Doug,
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>>>experience many more as you continue pursuing this affliction.
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>>>And you and Micheal are more than welcome to join us on any of our flights
>>>out of CO. But you could probably dredge up 95% of what you could learn from
>>>a trip up here by browsing our web site, www.eoss.org. We have stuff up there
>>>that goes back nearly 20 years.
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>>>You might be able to get past the risk of letting the payload fall into the
>>>parachute canopy by adding a small pilot 'chute on a long line attached to
>>>the main 'chute apex. This might be enough to force the main 'chute go
>>>upright, thus dumping the payload back out where it belongs. Or not ... :=P
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>>>Doug Loughmiller wrote:
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>>>>Hi Mike,
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>>>>Thanks for your note. Well, Michael and I are not too bummed as we learned a
>>>>lot and absolutely enjoyed the GPSL. As you are probably aware, this was our
>>>>first meeting but it won't be our last. Yes, the parachute on the bottom was
>>>>a challenge and not well implemented as we planned to but some weight at the
>>>>very bottom to try to hold it taught but in our haste to get off the ground
>>>>we managed to fail to but the weight on. You're right it is a slow ascent!
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>>>>We managed to get a lot of useful data and like I say, we learned a lot.
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>>>>I particularly enjoyed meeting the folks from your group. And I can't tell
>>>>all of you how much Michael and I appreciated the offers to help us search
>>>>for the package once word got back to everyone that we had a problem. I am
>>>>very impressed with the passion of your team. I mentioned to Marty and
>>>>others last night at dinner, that I would like to come up and participate in
>>>>a flight with your group some time so maybe I can arrange a trip up to do
>>>>that one of these days.
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>>>>Take care and thanks for the words of advice. We knew better and made
>>>>several mistakes. This wasn't one of our finest hours but nevertheless, we
>>>>had fun!
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>>>>73,
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>>>>Doug, W5BL
>>>>-----Original Message-----
>>>>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>>>>Manes
>>>>Sent: Sunday, July 19, 2009 10:27 PM
>>>>To: GPSL@yahoogroups.com
>>>>Subject: Re: [GPSL] GPSL Questions
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>>>>Hi Doug,
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>>>>What a bummer. And another testament to never giving Murphy an even break.
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>>>>EOSS has learned the value of that backup DF beacon more times than we care
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>>>>recall, going back to EOSS-1 in 1990 and most recently just last fall, when
>>>>the primary APRS tracker suffered an xmtr or antenna failure - which we were
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>>>>payload falls into the parachute canopy on burst/release. It's happened

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>>>>>*From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>>>>*Zack Clobes
>>>>>*Sent:* Sunday, July 19, 2009 9:32 AM
>>>>>*To:* Group GPSL
>>>>>*Subject:* [GPSL] GPSL Questions
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>>>>>First, who's balloon got stuck in the tree. I got so involved in
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>>>>>Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>>>>>back a couple of times last night, but never got an answer.
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>>>>>Thanks for another good GPSL!
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>>>>>Zack Clobes, W0ZC
>>>>>Project: Traveler
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5700. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-20 23:56:04 UTC
From: wb8elk@aol.com
Topic: 5652 Message: 5700

Hi Joe,

The main reason for Arbonet's inverted parachute was the fact that their payload inserted directly into the balloon nozzle to measure internal pressure via a PVC pipe that also supported the payload itself. Their intent was to have the parachute bring everything down after inverting itself after burst.

- Bill WB8ELK

**********An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
(http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=JulyExcfooterNO62)

5701. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 00:56:41 UTC
From: Mike Manes
Topic: 5652 Message: 5701

Filling light risk having the ascent rate stall out. The parachute drag will affect only a positive ascent rate. But yer right, the constant drag area of the 'chute will yield less and less drag as the atmosphere thins.
73 de Mike W5VSI

Joe wrote:
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
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5702. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 00:00:37 UTC
From: Joe
Topic: 5652 Message: 5702

Ahhh That makes more sence..

By the way did they get any pressure data?

wb8elk@... wrote:

>
>
> Hi Joe,
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> The main reason for Arbonet's inverted parachute was the fact that
> their payload inserted directly into the balloon nozzle to measure
> internal pressure via a PVC pipe that also supported the payload
> itself. Their intent was to have the parachute bring everything down
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5703. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 01:20:12 UTC
From: Joe
Topic: 5652 Message: 5703

Hi Mike,

I just do not know what we are doing differently.. Ya know with all the stuff we do differently and NEVER EVER have had a problem with.

I read about these people that fill with in our flights grazy positive lifts. Like for a 6 pound payload, giving it 8 or even 10 pounds at the nozzle of lift!

We have NEVER EVER gone more than a POUND of extra lift. and thats only on a 20 MPh+ wind at launch days.

Our fills wind up as follows,regardless of payload weight,
25% over 1 pound extra
50% 1 pound extra
40% 8 ounces extra
10% 4 ounces or LESS, one flight had only 1 ounce of positive lift!

And we have NEVER had them stall out, we have had SLOW rates, like 100 to 200 fpm,, but the only one that possibly satalled and we don't really know what happened on that flight because it was the LONG flight. the Ohare Special. As we call it. And that was a winter flight that lasted 12+ hours yet it only traveled from here to Ohare.

Soo strange. Why when we do things soo differently and never have these same problems?

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>Filling light risk having the ascent rate stall out. The parachute drag will
>affect only a positive ascent rate. But yer right, the constant drag area of
>the 'chute will yield less and less drag as the atmosphere thins.
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5704. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:21:25 UTC
From: Mike Manes
Topic: 5652 Message: 5704

Kinda like the Space Data payloads. There's also vent valve in Space Data's
payload to hold predetermined altitude.

Joe wrote:
>
>
> Ahhh That makes more sence..
>
> By the way did they get any pressure data?
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> wb8elk@... wrote:
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5705. GPSL 2009 Live

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 01:42:06 UTC
From: Harry M
Topic: 5705 Message: 5705

Hey Bill,

What was the brand and model of the little "Handtop" you used for the live feed?

Thanks!
Harry KC5TRB

5706. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:45:04 UTC
From: Mike Manes
Topic: 5652 Message: 5706

Hi Joe,

We've had a couple of floaters, despite a 1000 fpm fill. Could have been a leaker. One was at the one GPSL that we hosted here in CO. We use Norm Kjome's technique of computing a gross lift (He bubble alone) of 115 to 125% over the gross weight (balloon + neck load). The smaller bags get the larger margin. Generally yields about 1000 fpm average from launch to burst. This helps keep actual vs predicts passed to the FAA before launch in the same ballpark.

Your "OHare Special" was pre-GPS, so you were using baro pressure telemetry for altitude? We did too, and saw plenty of 120K' flights using that data. Of course, that data was wrong and attributable to the 1% FS transducer error when measuring actual pressures of 1% FS :=P.

73 de Mike W5VSI

Joe wrote:
>
>
> Hi Mike,
>
> I just do not know what we are doing differently.. Ya know with all the
> stuff we do differently and NEVER EVER have had a problem with.
>
> I read about these people that fill with in our flights grazy positive
> lifts. Like for a 6 pound payload, giving it 8 or even 10 pounds at
> the nozzle of lift!
>
> We have NEVER EVER gone more than a POUND of extra lift. and thats only
> on a 20 MPh+ wind at launch days.
>
> Our fills wind up as follows,regardless of payload weight,
> 25% over 1 pound extra
> 50% 1 pound extra
> 40% 8 ounces extra
> 10% 4 ounces or LESS, one flight had only 1 ounce of positive lift!
>
> And we have NEVER had them stall out, we have had SLOW rates, like 100
> to 200 fpm,, but the only one that possibly satalled and we don't
> really know what happened on that flight because it was the LONG flight.
> the Ohare Special. As we call it. And that was a winter flight that
> lasted 12+ hours yet it only traveled from here to Ohare.
>
> Soo strange. Why when we do things soo differently and never have these
> same problems?

>
> Joe WB9SBD
> Near Space Sciences
>
> Mike Manes wrote:
>> Filling light risk having the ascent rate stall out. The parachute drag will
>> affect only a positive ascent rate. But yer right, the constant drag area of
>> the 'chute will yield less and less drag as the atmosphere thins.
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> Ummm, Why not just use less lift like we do? Then it will stay slow all
>>> the way up.
>>>
>>> I don't have the data but I bet the rate of climb sped up as it got higher.
>>>
>>> Joe WB9SBD
>>>
>>> Mike Manes wrote:
>>>
>>>> Hi Joe,
>>>>
>>>> The guys from Maine do that to slow down the ascent rate in order to extend
>>>> the flight duration and go farther downrange (in the winter). Not sure what
>>>> ARBONET's goal might have been, but it sure slowed the ascent!
>>>>
>>>> 73 de Mike W5VSI
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>>>> Joe wrote:
>>>>
>>>>
>>>>> Why was the chute UNDER the payload?
>>>>>
>>>>> Mike Manes wrote:
>>>>>
>>>>>
>>>>>> Hi Doug,
>>>>>>
>>>>>> Balloonacy certainly provides an abundance of "teachable moments", and you'll
>>>>>> experience many more as you continue pursuing this affliction.
>>>>>>
>>>>>> And you and Micheal are more than welcome to join us on any of our flights
>>>>>> out of CO. But you could probably dredge up 95% of what you could learn from
>>>>>> a trip up here by browsing our web site, www.eoss.org. We have stuff up there
>>>>>> that goes back nearly 20 years.
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>>>>>> You might be able to get past the risk of letting the payload fall into the
>>>>>> parachute canopy by adding a small pilot 'chute on a long line attached to
>>>>>> the main 'chute apex. This might be enough to force the main 'chute go

>>>>>> upright, thus dumping the payload back out where it belongs. Or not ... :=P
>>>>>>
>>>>>> 73 de Mike W5VSI
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>>>>>> Doug Loughmiller wrote:
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>>>>>>> Hi Mike,
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>>>>>>> Thanks for your note. Well, Michael and I are not too bummed as we learned a
>>>>>>> lot and absolutely enjoyed the GPSL. As you are probably aware, this was our
>>>>>>> first meeting but it won't be our last. Yes, the parachute on the bottom was
>>>>>>> a challenge and not well implemented as we planned to but some weight at the
>>>>>>> very bottom to try to hold it taught but in our haste to get off the ground
>>>>>>> we managed to fail to but the weight on. You're right it is a slow ascent!
>>>>>>>
>>>>>>> We managed to get a lot of useful data and like I say, we learned a lot.
>>>>>>>
>>>>>>> I particularly enjoyed meeting the folks from your group. And I can't tell
>>>>>>> all of you how much Michael and I appreciated the offers to help us search
>>>>>>> for the package once word got back to everyone that we had a problem. I am
>>>>>>> very impressed with the passion of your team. I mentioned to Marty and
>>>>>>> others last night at dinner, that I would like to come up and participate in
>>>>>>> a flight with your group some time so maybe I can arrange a trip up to do
>>>>>>> that one of these days.
>>>>>>>
>>>>>>> Take care and thanks for the words of advice. We knew better and made
>>>>>>> several mistakes. This wasn't one of our finest hours but nevertheless, we
>>>>>>> had fun!
>>>>>>>
>>>>>>> 73,
>>>>>>>
>>>>>>> Doug, W5BL
>>>>>>> -----Original Message-----
>>>>>>> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>>>>>>> Manes
>>>>>>> Sent: Sunday, July 19, 2009 10:27 PM
>>>>>>> To: GPSL@yahoogroups.com
>>>>>>> Subject: Re: [GPSL] GPSL Questions
>>>>>>>
>>>>>>> Hi Doug,
>>>>>>>
>>>>>>> What a bummer. And another testament to never giving Murphy an even break.
>>>>>>>
>>>>>>> EOSS has learned the value of that backup DF beacon more times than we care
>>>>>>> to
>>>>>>> recall, going back to EOSS-1 in 1990 and most recently just last fall, when
>>>>>>> the primary APRS tracker suffered an xmtr or antenna failure - which we were
>>>>>>> unable to duplicate on the ground. It was a 0.9 lb totally independent DF

>>>>>>> beacon with 48+ hrs of battery life that affected our recovery. Cheap
>>>>>>> insurance.
>>>>>>>
>>>>>>> I did enjoy watching your launch on Bill's BATC video link, and wish you
>>>>>>> guys
>>>>>>> great success with flying the parachute on the bottom. Sure makes for a
>>>>>>> leisurely ascent! But descent could be a lot swifter than expected if the
>>>>>>> payload falls into the parachute canopy on burst/release. It's happened
>>>>>>> during PBC even with conventional flight string configurations - even at
>>>>>>> JPL!
>>>>>>>
>>>>>>> 73 de Mike W5VSI
>>>>>>> CTO EOSS
>>>>>>>
>>>>>>> Doug Loughmiller wrote:
>>>>>>>
>>>>>>>
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>>>>>>>>>>>>> Hi Zack,
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>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>> Sorry I missed your calls last night. I got home a little while ago and
>>>>>>>>>>>>> saw your question. We were unsuccessful (at least so far) in recovering
>>>>>>>>>>>>> the payload. We simply didn't have enough data to narrow the search area
>>>>>>>>>>>>> down and I'm sure the batteries were depleted by the time we headed back
>>>>>>>>>>>>> to Topeka. Lesson learned for us was to make sure we have a low power
>>>>>>>>>>>>> beacon on board with an oversized battery so that we know we have at
>>>>>>>>>>>>> least some RF coming off of the package for an extended period of time.
>>>>>>>>>>>>> Michael and I are both disappointed that we lost the package but we gain
>>>>>>>>>>>>> data and learned a lot so it wasn't a total loss.
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>>>>>>>>>>>>> I want to thank you and the others for you offer to help us search for
>>>>>>>>>>>>> the package. I am hoping when harvest time comes around that we get a
>>>>>>>>>>>>> call from someone who has found our package in their corn field.
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>>>>>>>>>>>>> I lived in Kansas many years ago so I enjoyed traveling the country side
>>>>>>>>>>>>> again. Michael and I really enjoyed our first GPSL and plan to
>>>>>>>>>>>>> participate again next year. Thanks for making us feel so welcome.
>>>>>>>>>>>>>
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>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>>
>>>>>>>>>>>>>

>>>>>>>> **73,**
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> **Doug, W5BL**
>>>>>>>>
>>>>>>>> ---
>>>>>>>>
>>>>>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>>>>>>> *Zack Clobes
>>>>>>>> *Sent:* Sunday, July 19, 2009 9:32 AM
>>>>>>>> *To:* Group GPSL
>>>>>>>> *Subject:* [GPSL] GPSL Questions
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> First, who's balloon got stuck in the tree. I got so involved in
>>>>>>>> getting it out, that I don't know who's we were recovering.
>>>>>>>>
>>>>>>>> Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>>>>>>>> back a couple of times last night, but never got an answer.
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> Thanks for another good GPSL!
>>>>>>>>
>>>>>>>> Zack Clobes, W0ZC
>>>>>>>> Project: Traveler
>>>>>>>>
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>>>>>> ---
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>>>>>>
>>>>>> No virus found in this incoming message.
>>>>>> Checked by AVG - www.avg.com
>>>>>> Version: 8.5.392 / Virus Database: 270.13.20/2250 - Release Date: 07/20/09 06:16:00
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>>>>
>>>> No virus found in this incoming message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release Date: 07/20/09 18:29:00
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release Date: 07/20/09 18:29:00
>>
>>
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5707. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 01:47:52 UTC
From: L. Paul Verhage
Topic: 5652 Message: 5707

It would be interesting to include the drag chute to slow the ascent, but to cut it away later in the ascent. That would allow you to collect more data lower in the atmosphere, but still get high enough to burst.

Or better yet, deploy the 'chute after you reach 60,000 feet and cut it away later. That way you could take advantage of changing wind conditions to manipulate your flight path (for instance using the strato turn around to come closer to home).

Technology challeneges are always the best.

Paul

On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...> wrote:

> Kinda like the Space Data payloads. There's also vent valve in Space Data's
> payload to hold predetermined altitude.
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> Joe wrote:
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> > Ahhh That makes more sence..
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> > By the way did they get any pressure data?
> >
> > wb8elk@... wrote:
> >> Hi Joe,
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> >> The main reason for Arbonet's inverted parachute was the fact that
> >> their payload inserted directly into the balloon nozzle to measure
> >> internal pressure via a PVC pipe that also supported the payload
> >> itself. Their intent was to have the parachute bring everything down
> >> after inverting itself after burst.
> >>
> >> - Bill WB8ELK
> >>
> >>
> >> ---
> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
> >> <
> http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.freec
reditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62
> >*
> >> ---
> >>
> >>

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> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

5708. RE: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:09:03 UTC
From: Doug Loughmiller
Topic: 5652 Message: 5708

Hi Joe,

We were testing a system that required us to couple our payload directly to the balloon, thus there wasn't any place above the payload to attach the parachute. We were measuring internal pressure of the balloon envelope in flight as we were collecting balloon performance data with the regards to the pressure at the burst point.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Monday, July 20, 2009 2:00 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Questions

Why was the chute UNDER the payload?

Mike Manes wrote:

Hi Doug,

Balloonacy certainly provides an abundance of "teachable moments", and you'll
experience many more as you continue pursuing this affliction.

And you and Micheal are more than welcome to join us on any of our flights out of CO. But you could probably dredge up 95% of what you could learn from
a trip up here by browsing our web site, www.eoss.org. We have stuff up there
that goes back nearly 20 years.

You might be able to get past the risk of letting the payload fall into the parachute canopy by adding a small pilot 'chute on a long line attached to the main 'chute apex. This might be enough to force the main 'chute go upright, thus dumping the payload back out where it belongs. Or not ... :=P

73 de Mike W5VSI

Doug Loughmiller wrote:

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first meeting but it won't be our last. Yes, the parachute on the bottom was a challenge and not well implemented as we planned to but some weight at the very bottom to try to hold it taught but in our haste to get off the ground we managed to fail to but the weight on. You're right it is a slow ascent!

We managed to get a lot of useful data and like I say, we learned a lot.

I particularly enjoyed meeting the folks from your group. And I can't tell all of you how much Michael and I appreciated the offers to help us search for the package once word got back to everyone that we had a problem. I am very impressed with the passion of your team. I mentioned to Marty and others last night at dinner, that I would like to come up and participate in a flight with your group some time so maybe I can arrange a trip up to do that one of these days.

Take care and thanks for the words of advice. We knew better and made several mistakes. This wasn't one of our finest hours but nevertheless, we had fun!

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Doug, W5BL
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To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
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I did enjoy watching your launch on Bill's BATC video link, and wish you
guys
great success with flying the parachute on the bottom. Sure makes for a leisurely ascent! But descent could be a lot swifter than expected if the payload falls into the parachute canopy on burst/release. It's happened during PBC even with conventional flight string configurations - even at JPL!

73 de Mike W5VSI
CTO EOSS

Doug Loughmiller wrote:

Hi Zack,

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I lived in Kansas many years ago so I enjoyed traveling the country side again. Michael and I really enjoyed our first GPSL and plan to participate again next year. Thanks for making us feel so welcome.

73,

Doug, W5BL

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@
<mailto:GPSL@yahoogroups.com> yahoogroups.com] *On Behalf Of
*Zack Clobes
Sent: Sunday, July 19, 2009 9:32 AM
To: Group GPSL
Subject: [GPSL] GPSL Questions

First, who's balloon got stuck in the tree. I got so involved in getting it out, that I don't know who's we were recovering.

Secondly, has anyone heard anything from ARBONET? I tried calling Doug back a couple of times last night, but never got an answer.

Thanks for another good GPSL!

Zack Clobes, W0ZC
Project: Traveler

No virus found in this incoming message.
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06:16:00

5709. RE: GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:34:01 UTC
From: Nick Hanks
Topic: 599 Message: 5709

EOSS has a video of the first five launches we'll post to our website. We'd like to identify the groups and put that as captions in the video. We know four of the groups. Going clockwise from the welding shop side of the center parking area, they are: EOSS, University of MN, NWTI, and ORB. Who was the fifth group?

Nick
EOSS

-----Original Message-----
From: Harry M [mailto:hhm_74115@...]
Sent: Monday, July 20, 2009 19:34
To: Nick Hanks
Subject: Re: GPSL

Good to see you too Nick!

NWTI was right next to me on the south.
I can't remember who else was near.

73 Harry

5710. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:35:04 UTC
From: Joe
Topic: 5652 Message: 5710

Thing is at 60K, would there be and drag left tomake much of a difference?

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> It would be interesting to include the drag chute to slow the ascent,
> but to cut it away later in the ascent. That would allow you to
> collect more data lower in the atmosphere, but still get high enough
> to burst.
>
> Or better yet, deploy the 'chute after you reach 60,000 feet and cut
> it away later. That way you could take advantage of changing wind
> conditions to manipulate your flight path (for instance using the
> strato turn around to come closer to home).
>
> Technology challeneges are always the best.
>
> Paul
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> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
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> Kinda like the Space Data payloads. There's also vent valve in
> Space Data's
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> Joe wrote:
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> > Ahhh That makes more sence..
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> > By the way did they get any pressure data?
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> > wb8elk@... <mailto:wb8elk@...> wrote:
> >> Hi Joe,
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> >> The main reason for Arbonet's inverted parachute was the fact
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> >> their payload inserted directly into the balloon nozzle to measure
> >> internal pressure via a PVC pipe that also supported the payload
> >> itself. Their intent was to have the parachute bring everything
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> >> after inverting itself after burst.
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> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.free
creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
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> Onwards and Upwards,
> Paul
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5711. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 02:47:21 UTC
From: Joe
Topic: 5652 Message: 5711

Mike Manes wrote:

>Hi Joe,
>
>We've had a couple of floaters, despite a 1000 fpm fill.
>
Isn't that soo very weird?

> Could have been a
>leaker. One was at the one GPSL that we hosted here in CO.
>
What was the time frame on it?

> We use Norm
>Kjome's technique of computing a gross lift (He bubble alone) of 115 to 125%
>over the gross weight (balloon + neck load). The smaller bags get the larger
>margin. Generally yields about 1000 fpm average from launch to burst. This
>helps keep actual vs predicts passed to the FAA before launch in the same
>ballpark.
>
>
True, but you know whats funny, we have noticed with our flights, it
stays within the window of 800 to 1200 fpm, with a wide range of lift
like anywhere from the 8 oz to the 1.5 pounds or even close to 2. The
only time we have has slower rates is when we went WAY low or high have
we been outside of that windopw.

>Your "OHare Special" was pre-GPS, so you were using baro pressure telemetry
>for altitude?
>
That one had no altitude telemetry on it at all. we determined atitude
mainly by who was hearing it, and run the formulas for the radio
horizion. We had lots more interest back then on flights, It was all
soo new to everyone. Hell there were not many flights happebning each
year.. Now it's like at least one every weekend almost! At the peak of
that flight on the 40 meter tracking net there was if I remember
correctly like 60 people listening and sending in reports of signal
strengths as well as beam headings. It was a busy day tracking it that way!

>We did too, and saw plenty of 120K' flights using that data.
>Of course, that data was wrong and attributable to the 1% FS transducer error
>when measuring actual pressures of 1% FS :=P.
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>
Yupper on that!

Joe

>73 de Mike W5VSI
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>Joe wrote:
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>>Hi Mike,
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>>I just do not know what we are doing differently.. Ya know with all the
>>stuff we do differently and NEVER EVER have had a problem with.
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>>I read about these people that fill with in our flights grazy positive
>>lifts. Like for a 6 pound payload, giving it 8 or even 10 pounds at
>>the nozzle of lift!
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>>We have NEVER EVER gone more than a POUND of extra lift. and thats only
>>on a 20 MPh+ wind at launch days.
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>>Our fills wind up as follows,regardless of payload weight,
>> 25% over 1 pound extra
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>>And we have NEVER had them stall out, we have had SLOW rates, like 100
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>>really know what happened on that flight because it was the LONG flight.
>>the Ohare Special. As we call it. And that was a winter flight that
>>lasted 12+ hours yet it only traveled from here to Ohare.
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>>Soo strange. Why when we do things soo differently and never have these
>>same problems?
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>>Joe WB9SBD
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>>Mike Manes wrote:
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>>>>Ummm, Why not just use less lift like we do? Then it will stay slow all
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>>>>Mike Manes wrote:
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>>>>>>>You might be able to get past the risk of letting the payload fall into the
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>>>>>>>>first meeting but it won't be our last. Yes, the parachute on the bottom was
>>>>>>>>a challenge and not well implemented as we planned to but some weight at the
>>>>>>>>very bottom to try to hold it taught but in our haste to get off the ground
>>>>>>>>we managed to fail to but the weight on. You're right it is a slow ascent!
>>>>>>>>
>>>>>>>>We managed to get a lot of useful data and like I say, we learned a lot.
>>>>>>>>
>>>>>>>>I particularly enjoyed meeting the folks from your group. And I can't tell
>>>>>>>>all of you how much Michael and I appreciated the offers to help us search
>>>>>>>>for the package once word got back to everyone that we had a problem. I am
>>>>>>>>very impressed with the passion of your team. I mentioned to Marty and
>>>>>>>>others last night at dinner, that I would like to come up and participate in
>>>>>>>>a flight with your group some time so maybe I can arrange a trip up to do
>>>>>>>>that one of these days.
>>>>>>>>
>>>>>>>>Take care and thanks for the words of advice. We knew better and made
>>>>>>>>several mistakes. This wasn't one of our finest hours but nevertheless, we
>>>>>>>>had fun!
>>>>>>>>
>>>>>>>>73,
>>>>>>>>
>>>>>>>>Doug, W5BL
>>>>>>>>-----Original Message-----
>>>>>>>>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>>>>>>>>Manes
>>>>>>>>Sent: Sunday, July 19, 2009 10:27 PM
>>>>>>>>To: GPSL@yahoogroups.com
>>>>>>>>Subject: Re: [GPSL] GPSL Questions
>>>>>>>>
>>>>>>>>Hi Doug,
>>>>>>>>
>>>>>>>>What a bummer. And another testament to never giving Murphy an even break.
>>>>>>>>
>>>>>>>>EOSS has learned the value of that backup DF beacon more times than we care
>>>>>>>>to
>>>>>>>>recall, going back to EOSS-1 in 1990 and most recently just last fall, when
>>>>>>>>the primary APRS tracker suffered an xmtr or antenna failure - which we were
>>>>>>>>unable to duplicate on the ground. It was a 0.9 lb totally independent DF
>>>>>>>>beacon with 48+ hrs of battery life that affected our recovery. Cheap
>>>>>>>>insurance.
>>>>>>>>
>>>>>>>>I did enjoy watching your launch on Bill's BATC video link, and wish you
>>>>>>>>guys
>>>>>>>>great success with flying the parachute on the bottom. Sure makes for a

>>>>>>>>leisurely ascent! But descent could be a lot swifter than expected if the
>>>>>>>>payload falls into the parachute canopy on burst/release. It's happened
>>>>>>>>during PBC even with conventional flight string configurations - even at
>>>>>>>>JPL!
>>>>>>>>
>>>>>>>>73 de Mike W5VSI
>>>>>>>>CTO EOSS
>>>>>>>>
>>>>>>>>Doug Loughmiller wrote:
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>>>>Hi Zack,
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>Sorry I missed your calls last night. I got home a little while ago and
>>>>>>>>>>saw your question. We were unsuccessful (at least so far) in recovering
>>>>>>>>>>the payload. We simply didn't have enough data to narrow the search area
>>>>>>>>>>down and I'm sure the batteries were depleted by the time we headed back
>>>>>>>>>>to Topeka. Lesson learned for us was to make sure we have a low power
>>>>>>>>>>beacon on board with an oversized battery so that we know we have at
>>>>>>>>>>least some RF coming off of the package for an extended period of time.
>>>>>>>>>>Michael and I are both disappointed that we lost the package but we gain
>>>>>>>>>>data and learned a lot so it wasn't a total loss.
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>I want to thank you and the others for you offer to help us search for
>>>>>>>>>>the package. I am hoping when harvest time comes around that we get a
>>>>>>>>>>call from someone who has found our package in their corn field.
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>I lived in Kansas many years ago so I enjoyed traveling the country side
>>>>>>>>>>again. Michael and I really enjoyed our first GPSL and plan to
>>>>>>>>>>participate again next year. Thanks for making us feel so welcome.
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>>>**73,**
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>

>>>>>>>>>>**Doug, W5BL**
>>>>>>>>>
>>>>>>>>>---
>>>>>>>>>
>>>>>>>>>*From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>>>>>>>>*Zack Clobes
>>>>>>>>>*Sent:* Sunday, July 19, 2009 9:32 AM
>>>>>>>>>*To:* Group GPSL
>>>>>>>>>*Subject:* [GPSL] GPSL Questions
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>First, who's balloon got stuck in the tree. I got so involved in
>>>>>>>>>getting it out, that I don't know who's we were recovering.
>>>>>>>>>
>>>>>>>>>Secondly, has anyone heard anything from ARBONET? I tried calling Doug
>>>>>>>>>back a couple of times last night, but never got an answer.
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>Thanks for another good GPSL!
>>>>>>>>>
>>>>>>>>>Zack Clobes, W0ZC
>>>>>>>>>Project: Traveler
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
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>>>>>>>>
>>>>>>>>No virus found in this incoming message.
>>>>>>>>Checked by AVG - www.avg.com
>>>>>>>>Version: 8.5.392 / Virus Database: 270.13.20/2250 - Release Date: 07/20/09 06:16:00
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>>>>>
>>>>>
>>>>>No virus found in this incoming message.
>>>>>Checked by AVG - www.avg.com
>>>>>Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release Date: 07/20/09 18:29:00
>>>>>
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>>>No virus found in this incoming message.
>>>Checked by AVG - www.avg.com
>>>Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release Date: 07/20/09 18:29:00
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>

5712. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 03:55:48 UTC
From: Mike Manes
Topic: 5652 Message: 5712

The 'chute we flew at GPSL on EOSS-144 was the same one that flew on EOSS-1 in 1990. Cut it away? No way, Jose'! Be more interesting to haul up a ballast bag of pressurized air - free ballast!

L. Paul Verhage wrote:
>
>
> It would be interesting to include the drag chute to slow the ascent,
> but to cut it away later in the ascent. That would allow you to collect
> more data lower in the atmosphere, but still get high enough to burst.
>
> Or better yet, deploy the 'chute after you reach 60,000 feet and cut it
> away later. That way you could take advantage of changing wind
> conditions to manipulate your flight path (for instance using the strato
> turn around to come closer to home).
>
> Technology challeneges are always the best.
>
> Paul
>
> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Kinda like the Space Data payloads. There's also vent valve in Space
> Data's
> payload to hold predetermined altitude.
>
> Joe wrote:
> >
> >
> > Ahhh That makes more sence..
> >
> > By the way did they get any pressure data?
> >
> > wb8elk@... <mailto:wb8elk@...> wrote:
> >> Hi Joe,
> >>
> >> The main reason for Arbonet's inverted parachute was the fact that
> >> their payload inserted directly into the balloon nozzle to measure
> >> internal pressure via a PVC pipe that also supported the payload
> >> itself. Their intent was to have the parachute bring everything down
> >> after inverting itself after burst.
> >>
> >> - Bill WB8ELK
> >>

> >>
> >>
> --
> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
> >>
> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.free
creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
> >>
> --
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com <http://www.avg.com/>
> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
> Date: 07/20/09 18:29:00
> >>
> >>
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

5713. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 03:14:30 UTC
From: Michael Willett
Topic: 5652 Message: 5713

Hi All!

Just joined the group and looked at the emails...

Just as Doug stated, thank you all for offering to help and I sure enjoyed meeting all of you! I am very much looking forward to another GPSL adventure! I was very impressed with all of you and realize there is a lot to be gained from other's experience - like knowing the Copernicus GPS is not all that it is cracked up to be! :)

Regarding the parachute:

Doug and Bill both pointed out that the chute was on the bottom of the payload because we were sampling pressure inside the balloon. We indeed did get sufficient data - enough to design a servo system to help us prevent burst.. We also found the pressure is extremely low, at times not even measurable with the 1psi sensor we used.

In regards to the chute tangling - that would be my fault if it indeed did tangle. There was supposed to be a drogue chute out on the fiberglass antenna rod, and at high speed, it would pull open the main chute. However, I never made up the drogue chute, so we took our chances - not a good option... I should also have added more line between the payload and the chute, it would alleviate the chance of hitting it. 20/20 is always better after sleeping.

Finding the payload:

Tonight I have been working on determining the likely area where we may have landed to help my own curiosity if it is found. Our APRS should run for some time, and it would be nice to see if a local ham would go scout the area or we run up there to take a look again. Two key pieces of information I am missing is regarding two other flights that day. 1) It appears Nicholas M Stich (K0NMS) may also have had a slow rate of ascent, (not due to a parachute? :) since APRS reported 38,269 when crossing I-35, and KD0BGQ was at 81,438 when crossing the same point. Noting Bills' WB8ELK westward landing zone compared to the majority, it would appear that we also would be west of our intended search area near Pittsburg, and considering we probably tangled, we would likely be quite short of Pittsburg - falling nearly straight down, so we may be north west of it. Add into the mix that the ascent was likely an expotential climb rate, we again would be more influenced
by the westerlies at altitude if we can consider a similar initial ascent as K0NMS. My hunch puts us at around Stark, Erie and Shaw.

Is there a way to view the APRS or other position data for the various payloads during the flight, and does anyone know the exact corrdinates where K0NMS landed?

Best Regards!

--Michael K5NOT

--- On Tue, 7/21/09, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] GPSL Questions
To: GPSL@yahoogroups.com
Date: Tuesday, July 21, 2009, 2:35 AM

Thing is at 60K, would there be and drag left tomake much of a
difference?

Joe WB9SBD

Near Space Sciences

L. Paul Verhage wrote:

It would be interesting to include the drag chute to slow the
ascent, but to cut it away later in the ascent. That would allow you
to collect more data lower in the atmosphere, but still get high enough
to burst.

Or better yet, deploy the 'chute after you reach 60,000 feet and
cut it away later. That way you could take advantage of changing wind
conditions to manipulate your flight path (for instance using the
strato turn around to come closer to home).

Technology challeneges are always the best.

Paul

On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@gmail. com>
wrote:

Kinda like the Space Data payloads. There's also
vent valve in Space Data's

payload to hold predetermined altitude.

Joe wrote:

>

>

> Ahhh That makes more sence..

>

> By the way did they get any pressure data?

>

> wb8elk@... wrote:

>> Hi Joe,

>>

>>   The main reason for Arbonet's inverted parachute was the
fact that

>> their payload inserted directly into the balloon nozzle to
measure

>> internal pressure via a PVC pipe that also supported the
payload

>> itself. Their intent was to have the parachute bring
everything down

>> after inverting itself after burst.

>>

>>   - Bill WB8ELK

>>

>>

>>
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>> *An Excellent Credit Score is 750. See Yours in Just 2 Easy
Steps!

>> <http://pr.atwola. com/promoclk/ 100126575x122132 3041x1201367261/ aol?redir=
http://www. freecreditreport .com/pm/default. aspx?sc=668072% 26hmpgID= 62%26bcd=
JulyExcfooterNO6 2>*

>>
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>>

>>

>> No virus found in this incoming message.

>> Checked by AVG - www.avg.com

>> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
Date: 07/20/09 18:29:00

>>

>>

>

>

>

--

Mike Manes mrmanes@gmail. com
Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

Yahoo! Groups Links

http://groups. yahoo.com/ group/GPSL/

Individual Email | Traditional

http://groups. yahoo.com/ group/GPSL/ join

(Yahoo! ID required)

mailto:GPSL-digest@ yahoogroups. com

mailto:GPSL-fullfeatured@ yahoogroups. com

GPSL-unsubscribe@ yahoogroups. com

http://docs. yahoo.com/ info/terms/

--

Onwards and Upwards,

Paul

5714. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 04:16:45 UTC
From: Mike Manes
Topic: 5652 Message: 5714

Hmmm - a 1200 latex would be about 24 ft in diameter at 60K', so a 24 ft 'chute would cut the ascent rate about in half. But at launch, it would be a REAL drag, not to mention kinda heavy - and expensive. Better to do a valve & ballast.

Joe wrote:
>
>
> Thing is at 60K, would there be and drag left tomake much of a difference?
>
> Joe WB9SBD
> Near Space Sciences
>
> L. Paul Verhage wrote:
>> It would be interesting to include the drag chute to slow the ascent,
>> but to cut it away later in the ascent. That would allow you to
>> collect more data lower in the atmosphere, but still get high enough
>> to burst.
>>
>> Or better yet, deploy the 'chute after you reach 60,000 feet and cut
>> it away later. That way you could take advantage of changing wind
>> conditions to manipulate your flight path (for instance using the
>> strato turn around to come closer to home).
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>> Technology challeneges are always the best.
>>
>> Paul
>>
>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
>> <mailto:mrmanes@...>> wrote:
>>
>> Kinda like the Space Data payloads. There's also vent valve in
>> Space Data's
>> payload to hold predetermined altitude.
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>> Joe wrote:
>> >
>> >
>> > Ahhh That makes more sence..
>> >
>> > By the way did they get any pressure data?
>> >
>> > wb8elk@... <mailto:wb8elk@...> wrote:
>> >> Hi Joe,
>> >>

>> >> The main reason for Arbonet's inverted parachute was the fact
>> that
>> >> their payload inserted directly into the balloon nozzle to measure
>> >> internal pressure via a PVC pipe that also supported the payload
>> >> itself. Their intent was to have the parachute bring everything
>> down
>> >> after inverting itself after burst.
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>> >> - Bill WB8ELK
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>> ---
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>> >>
>> >> No virus found in this incoming message.
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>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
>> Date: 07/20/09 18:29:00
>> >>
>> >>
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>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
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>> Yahoo! Groups Links
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>> mailto:GPSL-fullfeatured@yahoogroups.com
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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>> --
>> Onwards and Upwards,
>> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5715. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 03:20:51 UTC
From: Joe
Topic: 5652 Message: 5715
Attachments: 1 described; binary payloads are missing from this source WARC

Like

Mike Manes wrote:

>The 'chute we flew at GPSL on EOSS-144 was the same one that flew on EOSS-1
>in 1990. Cut it away? No way, Jose'! Be more interesting to haul up a
>ballast bag of pressurized air - free ballast!
>Like one of these?
>
>

>L. Paul Verhage wrote:
>
>
>>It would be interesting to include the drag chute to slow the ascent,
>>but to cut it away later in the ascent. That would allow you to collect
>>more data lower in the atmosphere, but still get high enough to burst.
>>
>>Or better yet, deploy the 'chute after you reach 60,000 feet and cut it
>>away later. That way you could take advantage of changing wind
>>conditions to manipulate your flight path (for instance using the strato
>>turn around to come closer to home).
>>
>>Technology challeneges are always the best.
>>
>>Paul
>>
>>On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
>><mailto:mrmanes@...>> wrote:
>>
>> Kinda like the Space Data payloads. There's also vent valve in Space
>> Data's
>> payload to hold predetermined altitude.
>>
>> Joe wrote:
>> >
>> >
>> > Ahhh That makes more sence..
>> >
>> > By the way did they get any pressure data?
>> >
>> > wb8elk@... <mailto:wb8elk@...> wrote:
>> >> Hi Joe,
>> >>
>> >> The main reason for Arbonet's inverted parachute was the fact that

>> >> their payload inserted directly into the balloon nozzle to measure
>> >> internal pressure via a PVC pipe that also supported the payload
>> >> itself. Their intent was to have the parachute bring everything down
>> >> after inverting itself after burst.
>> >>
>> >> - Bill WB8ELK
>> >>
>> >>
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>> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
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ecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
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>

5716. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 04:21:59 UTC
From: Mike Manes
Topic: 5652 Message: 5716

That was GPSL '03.

Joe wrote:
>
> Mike Manes wrote:
>> Could have been a
>> leaker. One was at the one GPSL that we hosted here in CO.

> What was the time frame on it?

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5717. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 03:23:28 UTC
From: Joe
Topic: 5652 Message: 5717

Michael Willett wrote:

>
>
> We indeed did get sufficient data - enough to design a servo system to
> help us prevent burst. We also found the pressure is extremely low, at
> times not even measurable with the 1psi sensor we used.
>

Let me guess it was less than 0.16 Psi?

Joe

>
>

5718. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 04:32:53 UTC
From: Mike Manes
Topic: 5652 Message: 5718

Hi Michael,

I've seen data on the gas pressure in a latex balloon, and it's just a few mbar guage, spiking just prior to burst. You could actually get some pretty decent data filling a balloon with air on the ground until it burst, maybe using a water manometer and a shop vac. BTW, Space Data does exactly that to prevent a burst.

73 de Mike W5VSI
CTO EOSS

Michael Willett wrote:
>
>
> Hi All!
>
> Just joined the group and looked at the emails...
>
> Just as Doug stated, thank you all for offering to help and I sure
> enjoyed meeting all of you! I am very much looking forward to another
> GPSL adventure! I was very impressed with all of you and realize there
> is a lot to be gained from other's experience - like knowing the
> Copernicus GPS is not all that it is cracked up to be! :)
>
> Regarding the parachute:
>
> Doug and Bill both pointed out that the chute was on the bottom of the
> payload because we were sampling pressure inside the balloon. We indeed
> did get sufficient data - enough to design a servo system to help us
> prevent burst. We also found the pressure is extremely low, at times not
> even measurable with the 1psi sensor we used.
>
> In regards to the chute tangling - that would be my fault if it indeed
> did tangle. There was supposed to be a drogue chute out on the
> fiberglass antenna rod, and at high speed, it would pull open the main
> chute. However, I never made up the drogue chute, so we took our chances
> - not a good option... I should also have added more line between the
> payload and the chute, it would alleviate the chance of hitting it.
> 20/20 is always better after sleeping.
>
> Finding the payload:
>
> Tonight I have been working on determining the likely area where we may
> have landed to help my own curiosity if it is found. Our APRS should run
> for some time, and it would be nice to see if a local ham would go scout
> the area or we run up there to take a look again. Two key pieces of

> information I am missing is regarding two other flights that day. 1) It
> appears Nicholas M Stich (K0NMS) may also have had a slow rate of
> ascent, (not due to a parachute? :) since APRS reported 38,269 when
> crossing I-35, and KD0BGQ was at 81,438 when crossing the same point.
> Noting Bills' WB8ELK westward landing zone compared to the majority, it
> would appear that we also would be west of our intended search area near
> Pittsburg, and considering we probably tangled, we would likely be
> quite short of Pittsburg - falling nearly straight down, so we may be
> north west of it. Add into the mix that the ascent was likely an
> expotential climb rate, we again would be more influenced by the
> westerlies at altitude if we can consider a similar initial ascent as
> K0NMS. My hunch puts us at around Stark, Erie and Shaw.
>
> Is there a way to view the APRS or other position data for the various
> payloads during the flight, and does anyone know the exact corrdinates
> where K0NMS landed?
>
> Best Regards!
>
> --Michael K5NOT
>
> --- On *Tue, 7/21/09, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] GPSL Questions
> To: GPSL@yahoogroups.com
> Date: Tuesday, July 21, 2009, 2:35 AM
>
>
>
> Thing is at 60K, would there be and drag left tomake much of a
> difference?
>
> Joe WB9SBD
> Near Space Sciences
>
> L. Paul Verhage wrote:
>
>> It would be interesting to include the drag chute to slow the
>> ascent, but to cut it away later in the ascent. That would allow
>> you to collect more data lower in the atmosphere, but still get
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>> </mc/compose?to=mrmanes@...>> wrote:
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>> > By the way did they get any pressure data?
>> >
>> > wb8elk@... </mc/compose?to=wb8elk@...> wrote:
>> >> Hi Joe,
>> >>
>> >> The main reason for Arbonet's inverted parachute was the
>> fact that
>> >> their payload inserted directly into the balloon nozzle to
>> measure
>> >> internal pressure via a PVC pipe that also supported the
>> payload
>> >> itself. Their intent was to have the parachute bring
>> everything down
>> >> after inverting itself after burst.
>> >>
>> >> - Bill WB8ELK
>> >>
>> >>
>> >> ------------ --------- --------- --------- ---------
>> --------- --------- ------
>> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy
>> Steps!
>> >> <http://pr.atwola. com/promoclk/ 100126575x122132
>> 3041x1201367261/ aol?redir= http://www. freecreditreport
>> .com/pm/default. aspx?sc=668072% 26hmpgID= 62%26bcd=
>> JulyExcfooterNO6 2
>> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.fre
ecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>>*
>> >> ------------ --------- --------- --------- ---------
>> --------- --------- ------
>> >>
>> >>
>> >> No virus found in this incoming message.
>> >> Checked by AVG - www.avg.com <http://www.avg.com/>
>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release

>> Date: 07/20/09 18:29:00
>> >>
>> >>
>> >
>> >
>> >
>>
>> --
>> Mike Manes mrmanes@gmail. com
>> </mc/compose?to=mrmanes@...> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>> ------------ --------- --------- ------
>>
>> Yahoo! Groups Links
>>
>>
>> (Yahoo! ID required)
>>
>> mailto:GPSL-fullfeatured@ yahoogroups. com
>> </mc/compose?to=GPSL-fullfeatured@yahoogroups.com>
>>
>>
>>
>>
>>
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>>
>> --
>> Onwards and Upwards,
>> Paul
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5719. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 04:51:55 UTC
From: Mike Manes
Topic: 5652 Message: 5719

Yup

Joe wrote:
> Like
>
> Mike Manes wrote:
>> The 'chute we flew at GPSL on EOSS-144 was the same one that flew on EOSS-1
>> in 1990. Cut it away? No way, Jose'! Be more interesting to haul up a
>> ballast bag of pressurized air - free ballast!
>> Like one of these?
>>
>
>> L. Paul Verhage wrote:
>>
>>> It would be interesting to include the drag chute to slow the ascent,
>>> but to cut it away later in the ascent. That would allow you to collect
>>> more data lower in the atmosphere, but still get high enough to burst.
>>>
>>> Or better yet, deploy the 'chute after you reach 60,000 feet and cut it
>>> away later. That way you could take advantage of changing wind
>>> conditions to manipulate your flight path (for instance using the strato
>>> turn around to come closer to home).
>>>
>>> Technology challeneges are always the best.
>>>
>>> Paul
>>>
>>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
>>> <mailto:mrmanes@...>> wrote:
>>>
>>> Kinda like the Space Data payloads. There's also vent valve in Space
>>> Data's
>>> payload to hold predetermined altitude.
>>>
>>> Joe wrote:
>>> >
>>> >
>>> > Ahhh That makes more sence..
>>> >
>>> > By the way did they get any pressure data?
>>> >
>>> > wb8elk@... <mailto:wb8elk@...> wrote:
>>> >> Hi Joe,
>>> >>
>>> >> The main reason for Arbonet's inverted parachute was the fact that

>>> >> their payload inserted directly into the balloon nozzle to measure
>>> >> internal pressure via a PVC pipe that also supported the payload
>>> >> itself. Their intent was to have the parachute bring everything down
>>> >> after inverting itself after burst.
>>> >>
>>> >> - Bill WB8ELK
>>> >>
>>> >>
>>> >>
>>> ---
>>> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
>>> >>
>>> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
>>> >>
>>> ---
>>> >>
>>> >>
>>> >> No virus found in this incoming message.
>>> >> Checked by AVG - www.avg.com <http://www.avg.com/>
>>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
>>> Date: 07/20/09 18:29:00
>>> >>
>>> >>
>>> >
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>>> >
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>>> --
>>> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
>>> 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>> mailto:GPSL-fullfeatured@yahoogroups.com
>>> <mailto:GPSL-fullfeatured@yahoogroups.com>
>>>
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>>> --
>>> Onwards and Upwards,
>>> Paul

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>> ---
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>>
>> No virus found in this incoming message.
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>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5720. Re: [GPSL] GPSL 2009 Live

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 05:51:50 UTC
From: wb8elk@aol.com
Topic: 5705 Message: 5720

Hi Harry,

I used the ASUS EeePC model 900...the model 1000HA has a larger screen
and bigger keypads though....Also, the ACER ASPIRE ONE is a good one to
consider....they've been as low as $239 via Tiger Direct.

- Bill WB8ELK
**********A Good Credit Score is 700 or Above. See yours in just 2 easy
steps!
(http://pr.atwola.com/promoclk/100126575x1221823310x1201398722/aol?redir=http://www.freecr
editreport.com/pm/default.aspx?sc=668072&hmpgID=62&bcd=
JulystepsfooterNO62)

5721. Re: [GPSL] GPSL 2009 Live

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 14:45:31 UTC
From: Harry M
Topic: 5705 Message: 5721

Hi Bill,

Thanks for the info!

Harry KC5TRB

I used the ASUS EeePC model 900...

5722. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 14:51:56 UTC
From: L. Paul Verhage
Topic: 5652 Message: 5722

I guess the 'chuute would have to be a disposable type. Big dry cleaner
bag?

Paul

On Mon, Jul 20, 2009 at 11:51 PM, Mike Manes <mrmanes@...> wrote:

> Yup
>
> Joe wrote:
> > Like
> >
> > Mike Manes wrote:
> >> The 'chute we flew at GPSL on EOSS-144 was the same one that flew on
> EOSS-1
> >> in 1990. Cut it away? No way, Jose'! Be more interesting to haul up a
> >> ballast bag of pressurized air - free ballast!
> >> Like one of these?
> >>
> >
> >> L. Paul Verhage wrote:
> >>
> >>> It would be interesting to include the drag chute to slow the ascent,
> >>> but to cut it away later in the ascent. That would allow you to
> collect
> >>> more data lower in the atmosphere, but still get high enough to burst.
> >>>
> >>> Or better yet, deploy the 'chute after you reach 60,000 feet and cut it
> >>> away later. That way you could take advantage of changing wind
> >>> conditions to manipulate your flight path (for instance using the
> strato
> >>> turn around to come closer to home).
> >>>
> >>> Technology challeneges are always the best.
> >>>
> >>> Paul
> >>>
> >>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
> >>> <mailto:mrmanes@...>> wrote:
> >>>
> >>> Kinda like the Space Data payloads. There's also vent valve in
> Space
> >>> Data's
> >>> payload to hold predetermined altitude.
> >>>
> >>> Joe wrote:

> >>> >
> >>> >
> >>> > Ahhh That makes more sence..
> >>> >
> >>> > By the way did they get any pressure data?
> >>> >
> >>> > wb8elk@... <mailto:wb8elk@...> wrote:
> >>> >> Hi Joe,
> >>> >>
> >>> >> The main reason for Arbonet's inverted parachute was the fact
> that
> >>> >> their payload inserted directly into the balloon nozzle to
> measure
> >>> >> internal pressure via a PVC pipe that also supported the
> payload
> >>> >> itself. Their intent was to have the parachute bring everything
> down
> >>> >> after inverting itself after burst.
> >>> >>
> >>> >> - Bill WB8ELK
> >>> >>
> >>> >>
> >>> >>
> >>>
> ---
> >>> >> *An Excellent Credit Score is 750. See Yours in Just 2 Easy
> Steps!
> >>> >>
> >>> <
> http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.freec
reditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62
> >*
> >>> >>
> >>>
> ---
> >>> >>
> >>> >>
> >>> >> No virus found in this incoming message.
> >>> >> Checked by AVG - www.avg.com <http://www.avg.com/>
> >>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
> >>> Date: 07/20/09 18:29:00
> >>> >>
> >>> >>
> >>> >
> >>> >
> >>> >
> >>>
> >>> --
> >>> Mike Manes mrmanes@... <mailto:mrmanes@...>
> Tel:

> >>> 303-979-4899
> >>> "Things should be made as simple as possible, but not more so."
> >>> A. Einstein
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>> mailto:GPSL-fullfeatured@yahoogroups.com
> >>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> >>> --
> >>> Onwards and Upwards,
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5723. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 15:36:11 UTC
From: Mark Garrett
Topic: 5652 Message: 5723

Mike:

Just to not the WB8ELK balloon landed further west and north than anticipated was that the balloon become entangled on the parachute. It landed hard and broke a carbon rod and dislodged the downward pointing camera and the SPOT transmitter. Bill was glad to see that it had not triggered the 911 function on the SPOT.

Maybe Bill can follow up on a post mortum on that unit to report any further damage to SPOT.

Mark Garrett, KA9SZX

From: Michael Willett <k5not@...m>
To: GPSL@yahoogroups.com
Sent: Monday, July 20, 2009 10:14:30 PM
Subject: Re: [GPSL] GPSL Questions

Hi All!

Just joined the group and looked at the emails...

Just as Doug stated, thank you all for offering to help and I sure enjoyed meeting all of you! I am very much looking forward to another GPSL adventure! I was very impressed with all of you and realize there is a lot to be gained from other's experience - like knowing the Copernicus GPS is not all that it is cracked up to be! :)

Regarding the parachute:

Doug and Bill both pointed out that the chute was on the bottom of the payload because we were sampling pressure inside the balloon. We indeed did get sufficient data - enough to design a servo system to help us prevent burst. We also found the pressure is extremely low, at times not even measurable with the 1psi sensor we used.

In regards to the chute tangling - that would be my fault if it indeed did tangle. There was supposed to be a drogue chute out on the fiberglass antenna rod, and at high speed, it would pull open the main chute. However, I never made up the drogue chute, so we took our chances - not a good option... I should also have added more line between the payload and the chute, it would alleviate the chance of hitting it. 20/20 is always better after sleeping.

Finding the payload:

Tonight I have been working on determining the likely area where we may have landed to help my own curiosity if it is found. Our APRS should run for some time, and it would be nice to see if a local ham would go scout the area or we run up there to take a look again. Two key pieces of information I am missing is regarding two other flights that day. 1) It appears Nicholas M Stich (K0NMS) may also have had a slow rate of ascent, (not due to a parachute?

:) since APRS reported 38,269 when crossing I-35, and KD0BGQ was at 81,438 when crossing the same point. Noting Bills' WB8ELK westward landing zone compared to the majority, it would appear that we also would be west of our intended search area near Pittsburg, and considering we probably tangled, we would likely be quite short of Pittsburg - falling nearly straight down, so we may be north west of it. Add into the mix that the ascent was likely an expotential climb rate, we again would be more influenced
by the westerlies at altitude if we can consider a similar initial ascent as K0NMS. My hunch puts us at around Stark, Erie and Shaw.

Is there a way to view the APRS or other position data for the various payloads during the flight, and does anyone know the exact corrdinates where K0NMS landed?

Best Regards!

--Michael K5NOT

--- On Tue, 7/21/09, Joe <nss@...> wrote:

>From: Joe <nss@...>
>Subject: Re: [GPSL] GPSL Questions
>To: GPSL@yahoogroups. com
>Date: Tuesday, July 21, 2009, 2:35 AM
>
>
>
>Thing is at 60K, would there be and drag left tomake much of a difference?
>
>Joe WB9SBD
>Near Space Sciences
>
>L. Paul Verhage wrote:
>
>It would be interesting to include the drag chute to slow the ascent, but to cut it away later in the ascent. That would allow you to collect more data lower in the atmosphere, but still get high enough to burst.
>>
>>Or better yet, deploy the 'chute after you reach 60,000 feet and cut it away later. That way you could take advantage of changing wind conditions to manipulate your flight path (for instance using the strato turn around to come closer to home).
>>
>>Technology challeneges are always the best.
>>
>>Paul
>>
>>
>>On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@gmail. com> wrote:
>>
>>Kinda like the Space Data payloads. There's also vent valve in Space Data's
>>>payload to hold predetermined altitude.
>>>
>>>
>>>Joe wrote:

>>>>
>>>>
>>>> Ahhh That makes more sence..
>>>>
>>>> By the way did they get any pressure data?
>>>>
>>>> wb8elk@... wrote:
>>>>> Hi Joe,
>>>>>
>>>>> The main reason for Arbonet's inverted parachute was the fact that
>>>>> their payload inserted directly into the balloon nozzle to measure
>>>>> internal pressure via a PVC pipe that also supported the payload
>>>>> itself. Their intent was to have the parachute bring everything down
>>>>> after inverting itself after burst.
>>>>>
>>>>> - Bill WB8ELK
>>>>>
>>>>>
>>>>> ------------ --------- --------- --------- --------- --------- --------- ------
>>>>> *An Excellent Credit Score is 750. See Yours in Just 2 Easy Steps!
>>>>> <http://pr.atwola. com/promoclk/ 100126575x122132 3041x1201367261/ aol?redir=
http://www. freecreditreport .com/pm/default. aspx?sc=668072% 26hmpgID= 62%26bcd=
JulyExcfooterNO6 2>*
>>>>> ------------ --------- --------- --------- --------- --------- --------- ------
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>>>>> No virus found in this incoming message.
>>>>> Checked by AVG - www.avg.com
>>>>> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release Date: 07/20/09 18:29:00
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>>>--
>>>Mike Manes   mrmanes@gmail. com   Tel: 303-979-4899
>>>"Things should be made as simple as possible, but not more so."
>>>A. Einstein
>>>
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>>>Yahoo! Groups Links
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>>Onwards and Upwards,
>>Paul
>>

5724. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 15:39:42 UTC
From: Joe
Topic: 5652 Message: 5724

Huh?

L. Paul Verhage wrote:

>
>
> I guess the 'chuute would have to be a disposable type. Big dry
> cleaner bag?
>
> Paul
>
> On Mon, Jul 20, 2009 at 11:51 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Yup
>
> Joe wrote:
> > Like
> >
> > Mike Manes wrote:
> >> The 'chute we flew at GPSL on EOSS-144 was the same one that
> flew on EOSS-1
> >> in 1990. Cut it away? No way, Jose'! Be more interesting to
> haul up a
> >> ballast bag of pressurized air - free ballast!
> >> Like one of these?
> >>
> >
> >> L. Paul Verhage wrote:
> >>
> >>> It would be interesting to include the drag chute to slow the
> ascent,
> >>> but to cut it away later in the ascent. That would allow you
> to collect
> >>> more data lower in the atmosphere, but still get high enough
> to burst.
> >>>
> >>> Or better yet, deploy the 'chute after you reach 60,000 feet
> and cut it
> >>> away later. That way you could take advantage of changing wind
> >>> conditions to manipulate your flight path (for instance using
> the strato
> >>> turn around to come closer to home).
> >>>
> >>> Technology challeneges are always the best.

> >>>
> >>> Paul
> >>>
> >>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>
> >>> <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
> >>>
> >>> Kinda like the Space Data payloads. There's also vent
> valve in Space
> >>> Data's
> >>> payload to hold predetermined altitude.
> >>>
> >>> Joe wrote:
> >>> >
> >>> >
> >>> > Ahhh That makes more sence..
> >>> >
> >>> > By the way did they get any pressure data?
> >>> >
> >>> > wb8elk@... <mailto:wb8elk@...>
> <mailto:wb8elk@... <mailto:wb8elk@...>> wrote:
> >>> >> Hi Joe,
> >>> >>
> >>> >> The main reason for Arbonet's inverted parachute was
> the fact that
> >>> >> their payload inserted directly into the balloon
> nozzle to measure
> >>> >> internal pressure via a PVC pipe that also supported
> the payload
> >>> >> itself. Their intent was to have the parachute bring
> everything down
> >>> >> after inverting itself after burst.
> >>> >>
> >>> >> - Bill WB8ELK
> >>> >>
> >>> >>
> >>> >>
> >>>
> ---
> >>> >> *An Excellent Credit Score is 750. See Yours in Just 2
> Easy Steps!
> >>> >>
> >>>
> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.free
creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
> >>> >>
> >>>
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> >>> >>
> >>> >>

> >>> >> No virus found in this incoming message.
> >>> >> Checked by AVG - www.avg.com <http://www.avg.com/>
> <http://www.avg.com/>
> >>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 -
> Release
> >>> Date: 07/20/09 18:29:00
> >>> >>
> >>> >>
> >>> >
> >>> >
> >>> >
> >>>
> >>> --
> >>> Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
> >>> 303-979-4899
> >>> "Things should be made as simple as possible, but not more
> so."
> >>> A. Einstein
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
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> >>>
> >>> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
> >>> <mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>>
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> >>> --
> >>> Onwards and Upwards,
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> >>
> >> No virus found in this incoming message.
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> Date: 07/20/09 18:29:00
> >>
> >>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
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> Yahoo! Groups Links
>
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> mailto:GPSL-fullfeatured@yahoogroups.com
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> --
> Onwards and Upwards,
> Paul
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.21/2252 - Release Date: 07/21/09 05:58:00
>
>
>

5725. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 21:39:06 UTC
From: Mike Manes
Topic: 5652 Message: 5725

'Druther have a 'chute that could be expected to survive at least
one entire flight.
- Mike

L. Paul Verhage wrote:
>
>
> I guess the 'chuute would have to be a disposable type. Big dry
> cleaner bag?
>
> Paul
>
> On Mon, Jul 20, 2009 at 11:51 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Yup
>
> Joe wrote:
> > Like
> >
> > Mike Manes wrote:
> >> The 'chute we flew at GPSL on EOSS-144 was the same one that
> flew on EOSS-1
> >> in 1990. Cut it away? No way, Jose'! Be more interesting to
> haul up a
> >> ballast bag of pressurized air - free ballast!
> >> Like one of these?
> >>
> >
> >> L. Paul Verhage wrote:
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> >>> It would be interesting to include the drag chute to slow the
> ascent,
> >>> but to cut it away later in the ascent. That would allow you
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> >>> more data lower in the atmosphere, but still get high enough to
> burst.
> >>>
> >>> Or better yet, deploy the 'chute after you reach 60,000 feet
> and cut it
> >>> away later. That way you could take advantage of changing wind
> >>> conditions to manipulate your flight path (for instance using
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> >>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
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> >>> <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
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> >>> Joe wrote:
> >>> >
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> <mailto:wb8elk@... <mailto:wb8elk@...>> wrote:
> >>> >> Hi Joe,
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> everything down
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> >>> >>
> >>> >> - Bill WB8ELK
> >>> >>
> >>> >>
> >>> >>
> >>>
> ---
> >>> >> *An Excellent Credit Score is 750. See Yours in Just 2
> Easy Steps!
> >>> >>
> >>>
> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.free
creditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
> >>> >>
> >>>
> ---
> >>> >>

> >>> >>
> >>> >> No virus found in this incoming message.
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> <http://www.avg.com/>
> >>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
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> >>> >>
> >>> >>
> >>> >
> >>> >
> >>> >
> >>>
> >>> --
> >>> Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
> >>> 303-979-4899
> >>> "Things should be made as simple as possible, but not more so."
> >>> A. Einstein
> >>>
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> >>> ------------------------------------
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> >>> Yahoo! Groups Links
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> >>>
> >>> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> >>> Onwards and Upwards,
> >>> Paul
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com <http://www.avg.com/>
> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release

> Date: 07/20/09 18:29:00
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

5726. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 20:51:48 UTC
From: L. Paul Verhage
Topic: 5652 Message: 5726

What about using a cheap plastic bag, but releasing three of the shroud lines to collapse the 'chute (on a four shroud line 'chute) and then reeling it back in?

On Tue, Jul 21, 2009 at 4:39 PM, Mike Manes <mrmanes@...> wrote:

> 'Druther have a 'chute that could be expected to survive at least
> one entire flight.
> - Mike
>
> L. Paul Verhage wrote:
> >
> >
> > I guess the 'chuute would have to be a disposable type. Big dry
> > cleaner bag?
> >
> > Paul
> >
> > On Mon, Jul 20, 2009 at 11:51 PM, Mike Manes <mrmanes@...
> > <mailto:mrmanes@...>> wrote:
> >
> > Yup
> >
> > Joe wrote:
> > > Like
> > >
> > > Mike Manes wrote:
> > >> The 'chute we flew at GPSL on EOSS-144 was the same one that
> > flew on EOSS-1
> > >> in 1990. Cut it away? No way, Jose'! Be more interesting to
> > haul up a
> > >> ballast bag of pressurized air - free ballast!
> > >> Like one of these?
> > >>
> > >
> > >> L. Paul Verhage wrote:
> > >>
> > >>> It would be interesting to include the drag chute to slow the
> > ascent,
> > >>> but to cut it away later in the ascent. That would allow you
> > to collect
> > >>> more data lower in the atmosphere, but still get high enough to
> > burst.
> > >>>
> > >>> Or better yet, deploy the 'chute after you reach 60,000 feet

> > and cut it
> > >>> away later. That way you could take advantage of changing wind
> > >>> conditions to manipulate your flight path (for instance using
> > the strato
> > >>> turn around to come closer to home).
> > >>>
> > >>> Technology challeneges are always the best.
> > >>>
> > >>> Paul
> > >>>
> > >>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
> > <mailto:mrmanes@...>
> > >>> <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
> > >>>
> > >>> Kinda like the Space Data payloads. There's also vent valve
> > in Space
> > >>> Data's
> > >>> payload to hold predetermined altitude.
> > >>>
> > >>> Joe wrote:
> > >>> >
> > >>> >
> > >>> > Ahhh That makes more sence..
> > >>> >
> > >>> > By the way did they get any pressure data?
> > >>> >
> > >>> > wb8elk@... <mailto:wb8elk@...>
> > <mailto:wb8elk@... <mailto:wb8elk@...>> wrote:
> > >>> >> Hi Joe,
> > >>> >>
> > >>> >> The main reason for Arbonet's inverted parachute was
> > the fact that
> > >>> >> their payload inserted directly into the balloon nozzle
> > to measure
> > >>> >> internal pressure via a PVC pipe that also supported
> > the payload
> > >>> >> itself. Their intent was to have the parachute bring
> > everything down
> > >>> >> after inverting itself after burst.
> > >>> >>
> > >>> >> - Bill WB8ELK
> > >>> >>
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> > --
> > >>> >> *An Excellent Credit Score is 750. See Yours in Just 2
> > Easy Steps!
> > >>> >>

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> http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.freec
reditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62
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> > >>> >>
> > >>> >> No virus found in this incoming message.
> > >>> >> Checked by AVG - www.avg.com <http://www.avg.com/>
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> Release
> > >>> Date: 07/20/09 18:29:00
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Onwards and Upwards,
Paul

5727. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 20:53:47 UTC
From: Joe
Topic: 5652 Message: 5727

Absolutely,

a Dry cleaning bag would be gone in seconds!

Someone post the url of a balloon burst, the chute has to be pretty sturdy to survive the PBC!

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>'Druther have a 'chute that could be expected to survive at least
>one entire flight.
>- Mike
>
>L. Paul Verhage wrote:
>
>
>>I guess the 'chuute would have to be a disposable type. Big dry
>>cleaner bag?
>>
>>Paul
>>
>>On Mon, Jul 20, 2009 at 11:51 PM, Mike Manes <mrmanes@...
>><mailto:mrmanes@...>> wrote:
>>
>> Yup
>>
>> Joe wrote:
>> > Like
>> >
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>> >> The 'chute we flew at GPSL on EOSS-144 was the same one that
>> flew on EOSS-1
>> >> in 1990. Cut it away? No way, Jose'! Be more interesting to
>> haul up a
>> >> ballast bag of pressurized air - free ballast!
>> >> Like one of these?
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>> >
>> >> L. Paul Verhage wrote:
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>> >>> It would be interesting to include the drag chute to slow the
>> ascent,
>> >>> but to cut it away later in the ascent. That would allow you

>> to collect
>> >>> more data lower in the atmosphere, but still get high enough to
>> burst.
>> >>>
>> >>> Or better yet, deploy the 'chute after you reach 60,000 feet
>> and cut it
>> >>> away later. That way you could take advantage of changing wind
>> >>> conditions to manipulate your flight path (for instance using
>> the strato
>> >>> turn around to come closer to home).
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>> >>> Technology challeneges are always the best.
>> >>>
>> >>> Paul
>> >>>
>> >>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
>> <mailto:mrmanes@...>
>> >>> <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
>> >>>
>> >>> Kinda like the Space Data payloads. There's also vent valve
>> in Space
>> >>> Data's
>> >>> payload to hold predetermined altitude.
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>> >>> Joe wrote:
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>> >>> > Ahhh That makes more sence..
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>> >>> > By the way did they get any pressure data?
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>> >>> > wb8elk@... <mailto:wb8elk@...>
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>> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www.fre
ecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
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>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
>> Date: 07/20/09 18:29:00
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>> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com

>Version: 8.5.392 / Virus Database: 270.13.21/2252 - Release Date: 07/21/09 05:58:00
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5728. GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 20:54:41 UTC
From: L. Paul Verhage
Topic: 5728 Message: 5728

Thanks to the Texas group, we have a point of contact with NASA.

If we can arrange a tour with Aerostar, then perhaps GPSL 2010 should be four days long.

Proposed Schedule
Wednesday - Tour Aerostar
Thursday - Tour CSBF (get a ride on Tiny Tim?)
Friday - Conference
Saturday - Launch (at the Balloon Base apron?)

--
Onwards and Upwards,
Paul

5729. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-21 22:12:40 UTC
From: Mike Manes
Topic: 5728 Message: 5729

It's a 103 mile, 2:45 drive from Aerostar to CSBF on TX 2-lane blacktop.

L. Paul Verhage wrote:
>
>
> Thanks to the Texas group, we have a point of contact with NASA.
>
> If we can arrange a tour with Aerostar, then perhaps GPSL 2010 should be
> four days long.
>
> Proposed Schedule
> Wednesday - Tour Aerostar
> Thursday - Tour CSBF (get a ride on Tiny Tim?)
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> Onwards and Upwards,
> Paul
>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5730. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 00:51:35 UTC
From: Joe
Topic: 5652 Message: 5730
Attachments: 6 described; binary payloads are missing from this source WARC

This E-Mail conversation started at first between just Mike and myself,
In the middle of working on this reply, I thought the rest of the group
might like to read this piece of ballooning history.

Mike made a comment about using Air as a ballast system. And I mentioned
to him yup like EarthWinds, and "EarthBreeze"

He then replied with,,

Mike Manes wrote:
Thanks for the memory-jog. Yeah, here's a link re Earthwinds:

http://en.wikipedia.org/wiki/Sky_anchor

But you've got me at "Earthbreeze". Que'?

Mike

So heres is the story of "EarthBreeze"

"EarthBreeze" That was Our flight.

The same years that EarthWinds was trying to go around the world I was
in conversation with,, crap I just went through my records, and I
can't find his name. But he was one of the designers of the earthwinds
balloon system. He was excited to see an amateur group want to try to
use the same technology. So he gave us a lot of the details on how to
calculate how to make it work.

Now when I think of it, yes we have had 47 flights, and as I always
say we have recovered 100%. But thinking now, to be truthfully honest
we did loose one,, but I don't count it as a LOST PAYLOAD, for it was
never intended to be gotten back it was our "Earthbreeze"

It was a balloon system just like EarthWinds, except where EarthWinds
was an active system, ours was a passive system. well kinda,,,

With the help of the EarthWinds designer we calculated what diameter for
the anchor balloon we would need to balance it's size, overall weight of
the whole flight train, and the amount of ballasting it would need to
provide., and what pressure at the cubic feet it had to be able to
cancel out the 15% positive life we were having to put into the balloon,
to make it of course through the loss of sunlight.

We came up with the design and made up the whole system.

Sadly this was all still way before GPS's All we had was a payload that had a CW message that looped over and over. We had when you timed the duration of the loop, the timing of the loop would tell us the altitude. We used as in your release mechanisim a radiosonde pressure bellows unit. But instead of the switch contact area that the wiper arm usually connects with, we replaced it with the resistor part of a slide pot, to make a varing resistor per pressure. The payload looked like this on the outside.

The center RED area was the actual electrinics compartment. The yellow end parts are solid styrofoam blocks for flotation if it would happen to go for a swim.
The view of inside the payload looked like this. Notice the lack of insulation, we thought since little heat if any will be generated, why bother with the added weight. This will eventually come to bite us, how much we just did not know.

I told you this was OLD, we were still at the time of that flight caled WARBA.
The Wisconsin Amateur Radio Balloon Association. WARBA
Final payload design and layout was made by Steve WB9ZRE
The bellows I think came from Bill ELK? not too sure, way too long ago to remember now!
The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen above. And if was fed directly into a full sized dipole that came out of the payload top and bottom.

To the left of the "Transmitter" is the brain chip. It was made by someone that Mark KA9SZX knew, it was an awesome chip, I would love to get more of them.

It had a CW message that was programmed into it. and by the value of the resistor on two pins determined the speed the CW was sent at! UTTER simplicity!!!

We just tied that resistor baroswitch modded unit to this chip, and done perfect code.

The message at sea level was agonizing slow, Like 1 WPM or so, the whole message took like 45 seconds to loop through! Slide it to the other end (dead short) and it was too fast to copy! but still sent good code. it sounded like amtor or some auto repeating digital signal, each loop was like 1/2 a second in duration or even less!

At the hopefully designed float altitude of 75,000 feet, we figured that the code the message would take just barely over 1.5 seconds to finish one looping of the message. Beneath is a pair of those S&G Photo Lithium batteries we all used back in those days!

Now onto the balloon system, the upper balloon was a standard kaymont TA 1500, nothing special.

The bottom, was a balloon we were testing from someone else, I don't remember who, but that it was BLUE! I don't remember what the inflated diameter would have been, or what the PSI would have needed to be to create the added ballast needed for long duration flight. Sorry this is just way too long ago, records were lost long ago,, sorry gang.

But we did know for the calculated diameter and final pressure that we needed, we were able to calculate the amount of our locations (close to sea level 1000 feet above sea level) we were able to calculate the amount in cubic feet of this air we needed to put into the balloon, so that it fills and pressurizes the right amount at the right altitude.

Ok we knew how many feet we needed to put into the ballast balloon, but how do you measure how many feet? To the rescue comes Tim K9SB, some lab equipment he was able to borrow, where we just used a simple vacuum cleaner put on blow mode into this device, and this device connected to the ballast balloon. it can be seen here getting started. It looked simple, But according to Tim, the lab said it's very accurate, like .1 of 1% accuracy! WOW!

Now it has the correct amount in it and is being tied off to seal the balloon. Rubber cement was also used to absolutely seal the neck.

The restrictor bag material was made by some company. Who? don't know, It was a raw rip stop nylon, that was incredibly light, it even felt like it was silk, but it was nylon for sure, Yet incredibly strong!

A scrap piece that was less than a 1/4" wide and say four feet long was tied to a rafter, and tied to a loop handle, no fancy streess reducing knots or anything yet this tiny scrap was able to support three of the launch crews weights!

The seams were a special Hot air ballon type of seam, that was suggested by the EarthWinds guys, and we had done for us. Again a scrap piece to test the seam was 1" wide and it supported my weight easily 200+ pounds!

Well we hung this in the rafters and filed the lifting balloon as seen here.

You can see all the extra restrictor bag material hanging along with the small bubble of sea level air in the Blue balloon.
Time for liftoff! It's off the ground at 8 AM.

sadly I do not have an actual picture of the system leaving, but it was in one way beautiful this gossamer bag hanging way below the whole system, but then again it was UGLY that stuff looked like a giant snot hanging below the payload! YUK!

Well we started listening to the beacon, it's working GREAT!! pegging our S meters of course, and many on the HF net on 40 are also hearing it, it's working Great!

We are timing it. hmmm, it seems to be raising faster than expected.. but of course this has more extra lift in it than we have ever used before also, so we thought this must be the reason it's climbing so

fast, close to 2000 feet per min we are calculating by the timing of the message loop.

Hmmm, somethings wrong,, 20 minutes into the flight, and the speed is saying we are near the float altitude point of 75,000 feet already by the speed of the message!

That's impossible! But we hope for the best,

Loop duration 1.5 sec,,

5 min later 1.25 sec,,

5 min later 1 second, and so on and on and on, we are thinking crap the ballast failed and it's climbing way past the designed float altitude.

The code speed is getting crazy!

I'm thinking this thing is getting near the end of that wiper sweep of that home made unit and we should be getting pop soon.

The code is now faster than even a dead short was on the ground. Yet amazingly guys with computers listening say it's still sending the perfect message! And they are timing it with their computers to get the interval now. the interval is like a total of what in milliseconds? Like 200 ms to send the whole message!
It soundes like this signal!
http://det.bi.ehu.es/~jtpjatae/sound/sitora.wav

Well we are all waiting for the tell tale flutter of burst. 1.5 hours into flight, still strong,
2 hours,,,

2 1/2 hours! what is going on here!? it's getting weaker but still strong it's like 20 over,,
Ok past the 3 hour mark, the ballast system must have worked. What altiiude it's at is anyones guess tho.
Now it's been 6 hours after launch
For us it's getting weaker, down to s 5 or so. But either skip people still have it at 10 to 20 over, and people that must be more local to the balloon in Michigan, OH, PA, IN, etc still have it strong!

It is now 10 hours after launch, we have no signal here in Wisconsin. On the net Skip prople still have good signal, as well as many along the east coast. Most of new england is hearing it quite well according to the 40 meter net.

12 hours after launch 8PM, and similar situation, except skip must have gotten LONG no one far away is hearing it anymore. we thought maybe it came down after sundown,, BUT the people calling us on the 40 meter net are far to far apart to have it flying too low or on the ground, people from maine to Virginia were still hearing it quite well. and a payload on the ground this would not happen.

Their beam headings of all the people on the net had it located somewhere in either eastern Maine or New brunswick. At least by all the best guess beam headings.

40 meters is getting tough, propagation on the net is getting hard to hear anyone, we try to go to 75 and it isn't aany better, We hang in there until midnight and last set of beam heading from the people still hearing it get it but now out in the atlantic someplace. We hope for the best for the next day.

Come sunup we check in on the 40 meter net freq,, a few still there, and one guy in maine is still hearing it weak but in there and best signal is at he says 30 to 40 degrees. But the band sucks for him on 20 as well as me here in wisconsin, I hear nothing, or the equivalent of an EME signal at best. if that or wishful imagination.. so we go up top the balloon freq on 20 and start calling asking for people to listen for the signal and try to get the best beam heading. several europeans gave headings that all averaged between 330 and 340 or so,, their best guess. But they were hearing it pretty well, we thought way cool!!! This and the maine guys headings place the balloon near Iceland someplace. if you go by the beam headings.. How trustworthy they are on 20 meters well.....

The day trudges on,, the system has been flying now for 28 hours. it's noon here and I'm having trouble hearing anyone in europe anymore. and the east coast can't hear the payload any more either.

we listen off and on for several more hours hopeing that maybe at local sundown the sifg would pop up, but we never heard anything.

finally sundown here and still no peep,

we listen the next day but hear nothing.

It was never heard from again or has been recovered. How far it got, we will never know. But it sure was a LOT of fun!

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

> Thanks for the memory-jog. Yeah, here's a link re Earthwinds:
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> http://en.wikipedia.org/wiki/Sky_anchor
>
> But you've got me at "Earthbreeze". Que'?
>
> Mike
>
> Joe wrote:
>
>> Yup exactly,
>>

>> That was "Earthwinds" remember that?
>>
>> And Our "Earthbreeze" project.
>>
>> Joe
>>
>> Mike Manes wrote:
>>
>>> Hi Joe,
>>>
>>> It made it thru to GPSL - I think, cuz I just saw it on an earlier
>>> email.
>>>
>>> And yeah, that's the ticket! This scheme was used by one of the guys
>>> trying
>>> to circle the globe solo. Need a compressor to pressurize the air,
>>> and a bag
>>> strong enough to hold it - like a superpressure balloon.
>>>
>>> We flew a similar rig for NOAA's GAINS project some time ago, except
>>> that the
>>> latex airbag was INSIDE the larger stiff He bag. A dc-powered
>>> turbine running
>>> up to 20,000 RPM was used to pressurize the air in the bag, which
>>> simultaneously compressed the He lift gas in the outer bag. Idea
>>> was to
>>> control balloon altitude to catch the desired winds for navigation
>>> purposes.
>>> But that pump sure took a LOT of power!
>>>
>>> 73 de Mike W5VSI
>>>
>>> Joe wrote:
>>>
>>>> You mean one of these?
>>>>
>>>> I tried sending it through the group but it was stopped I guess cuz
>>>> of the image,
>>>>
>>>>
>>>> Mike Manes wrote:
>>>>
>>>>> The 'chute we flew at GPSL on EOSS-144 was the same one that flew
>>>>> on EOSS-1
>>>>> in 1990. Cut it away? No way, Jose'! Be more interesting to
>>>>> haul up a
>>>>> ballast bag of pressurized air - free ballast!
>>>>>
>>>>> L. Paul Verhage wrote:
>>>>>

>>>>>
>>>>>> It would be interesting to include the drag chute to slow the
>>>>>> ascent, but to cut it away later in the ascent. That would allow
>>>>>> you to collect more data lower in the atmosphere, but still get
>>>>>> high enough to burst.
>>>>>>
>>>>>> Or better yet, deploy the 'chute after you reach 60,000 feet and
>>>>>> cut it away later. That way you could take advantage of changing
>>>>>> wind conditions to manipulate your flight path (for instance
>>>>>> using the strato turn around to come closer to home).
>>>>>>
>>>>>> Technology challeneges are always the best.
>>>>>>
>>>>>> Paul
>>>>>>
>>>>>> On Mon, Jul 20, 2009 at 9:21 PM, Mike Manes <mrmanes@...
>>>>>> <mailto:mrmanes@...>> wrote:
>>>>>>
>>>>>> Kinda like the Space Data payloads. There's also vent valve
>>>>>> in Space
>>>>>> Data's
>>>>>> payload to hold predetermined altitude.
>>>>>>
>>>>>> Joe wrote:
>>>>>> >
>>>>>> >
>>>>>> > Ahhh That makes more sence..
>>>>>> >
>>>>>> > By the way did they get any pressure data?
>>>>>> >
>>>>>> > wb8elk@... <mailto:wb8elk@...> wrote:
>>>>>> >> Hi Joe,
>>>>>> >>
>>>>>> >> The main reason for Arbonet's inverted parachute was
>>>>>> the fact that
>>>>>> >> their payload inserted directly into the balloon nozzle
>>>>>> to measure
>>>>>> >> internal pressure via a PVC pipe that also supported the
>>>>>> payload
>>>>>> >> itself. Their intent was to have the parachute bring
>>>>>> everything down
>>>>>> >> after inverting itself after burst.
>>>>>> >>
>>>>>> >> - Bill WB8ELK
>>>>>> >>
>>>>>> >>
>>>>>> >>
>>>>>>
>>>>>> --
>>>>>>

>>>>>> >> *An Excellent Credit Score is 750. See Yours in Just 2
>>>>>> Easy Steps!
>>>>>> >>
>>>>>>
>>>>>> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://www
.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
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>>>>>> >> Version: 8.5.392 / Virus Database: 270.13.20/2251 - Release
>>>>>> Date: 07/20/09 18:29:00
>>>>>> >>
>>>>>> >>
>>>>>> >
>>>>>> >
>>>>>> >
>>>>>>
>>>>>> --
>>>>>> Mike Manes mrmanes@...
>>>>>> <mailto:mrmanes@...> Tel:
>>>>>> 303-979-4899
>>>>>> "Things should be made as simple as possible, but not more so."
>>>>>> A. Einstein
>>>>>>
>>>>>>
>>>>>> ------------------------------------
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>>>>>> Yahoo! Groups Links
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>>>>>> mailto:GPSL-fullfeatured@yahoogroups.com
>>>>>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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>>>>>> Onwards and Upwards,
>>>>>> Paul
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>Version: 8.5.392 / Virus Database: 270.13.21/2252 - Release Date: 07/21/09 05:58:00
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5731. GPSL09 ORB Website Update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 01:09:10 UTC
From: Harry M
Topic: 5731 Message: 5731

The ORB website has been updated and has a few pics.
Goto ORB-25 then Postflight.

http://members.cox.net/hhm_74775/orb/

Harry KC5TRB

5732. GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 02:12:26 UTC
From: Mark Huffman
Topic: 4595 Message: 5732

Thanks to Paul and his XYL on the success of GPSL 2009 and of course to all others that helped and participated. Carol and I really enjoyed our 2nd GPSL and are looking forward to 2010. We enjoyed seeing folks from 2008 again and missed those who did not make it this year. For our Canadian friends, we look forward to your return in 2010.

One problem I have that maybe someone can solve.

I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?

One more note, My jaw has healed nicely and all I can say about the situation is "You can't fix stupid and don't look down a barrel to see if it is loaded!" 73's

Mark (N5OTD) and Carol Huffman

5733. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 02:37:58 UTC
From: Joe
Topic: 5652 Message: 5733

Yeah I forgot to add that to the story,

what happens to a resistor when it's 30 below zero?

As Jackie Gleason would say Zoom bang!

Mike Manes wrote:

> Hi Joe,
>
> Hey, thanks for that update. That was so long ago that I'd forgotten
> your Earthwinds experiment with the ballast balloon. I guess the
> reason your altitude read wrong was that you had a combo
> barometer/thermometer
> driving your telemetry, right?
>
> It kinda reminds me of EOSS's near-disaster, EOSS-6 - don't remind me!
> But we >did< get that sucker back, after chasing it all night out past
> N. Platte, NE. Lotsa lessons learned on that one.
>
> 73 de Mike W5VSI
>
> Joe wrote:
>
>> This E-Mail conversation started at first between just Mike and
>> myself, In the middle of working on this reply, I thought the rest
>> of the group might like to read this piece of ballooning history.
>>
>> Mike made a comment about using Air as a ballast system. And I
>> mentioned to him yup like EarthWinds, and "EarthBreeze"
>>
>> He then replied with,,
>>
>> Mike Manes wrote:
>> Thanks for the memory-jog. Yeah, here's a link re Earthwinds:
>>
>> http://en.wikipedia.org/wiki/Sky_anchor
>>
>> But you've got me at "Earthbreeze". Que'?
>>
>> Mike
>>
>> So heres is the story of "EarthBreeze"
>>
>> "EarthBreeze" That was Our flight.
>>

>> The same years that EarthWinds was trying to go around the world I
>> was in conversation with,, crap I just went through my records,
>> and I can't find his name. But he was one of the designers of the
>> earthwinds balloon system. He was excited to see an amateur group
>> want to try to use the same technology. So he gave us a lot of the
>> details on how to calculate how to make it work.
>>
>> Now when I think of it, yes we have had 47 flights, and as I always
>> say we have recovered 100%. But thinking now, to be truthfully
>> honest we did loose one,, but I don't count it as a LOST PAYLOAD,
>> for it was never intended to be gotten back it was our "Earthbreeze"
>> It was a balloon system just like EarthWinds, except where EarthWinds
>> was an active system, ours was a passive system. well kinda,,,
>> With the help of the EarthWinds designer we calculated what diameter
>> for the anchor balloon we would need to balance it's size, overall
>> weight of the whole flight train, and the amount of ballasting it
>> would need to provide., and what pressure at the cubic feet it had to
>> be able to cancel out the 15% positive life we were having to put
>> into the balloon, to make it of course through the loss of sunlight.
>>
>> We came up with the design and made up the whole system.
>>
>> Sadly this was all still way before GPS's All we had was a payload
>> that had a CW message that looped over and over. We had when you
>> timed the duration of the loop, the timing of the loop would tell
>> us the altitude. We used as in your release mechanisim a radiosonde
>> pressure bellows unit. But instead of the switch contact area that
>> the wiper arm usually connects with, we replaced it with the resistor
>> part of a slide pot, to make a varing resistor per pressure. The
>> payload looked like this on the outside.
>>
>> The center RED area was the actual electrinics compartment. The
>> yellow end parts are solid styrofoam blocks for flotation if it would
>> happen to go for a swim.
>> The view of inside the payload looked like this. Notice the lack of
>> insulation, we thought since little heat if any will be generated,
>> why bother with the added weight. This will eventually come to bite
>> us, how much we just did not know.
>>
>> I told you this was OLD, we were still at the time of that flight
>> caled WARBA.
>> The Wisconsin Amateur Radio Balloon Association. WARBA
>> Final payload design and layout was made by Steve WB9ZRE
>> The bellows I think came from Bill ELK? not too sure, way too long
>> ago to remember now!
>> The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen
>> above. And if was fed directly into a full sized dipole that came out
>> of the payload top and bottom.
>>
>> To the left of the "Transmitter" is the brain chip. It was made by

>> someone that Mark KA9SZX knew, it was an awesome chip, I would love
>> to get more of them.
>>
>> It had a CW message that was programmed into it. and by the value of
>> the resistor on two pins determined the speed the CW was sent at!
>> UTTER simplicity!!!
>>
>> We just tied that resistor baroswitch modded unit to this chip, and
>> done perfect code.
>>
>> The message at sea level was agonizing slow, Like 1 WPM or so, the
>> whole message took like 45 seconds to loop through! Slide it to the
>> other end (dead short) and it was too fast to copy! but still sent
>> good code. it sounded like amtor or some auto repeating digital
>> signal, each loop was like 1/2 a second in duration or even less!
>>
>> At the hopefully designed float altitude of 75,000 feet, we figured
>> that the code the message would take just barely over 1.5 seconds to
>> finish one looping of the message. Beneath is a pair of those S&G
>> Photo Lithium batteries we all used back in those days!
>>
>> Now onto the balloon system, the upper balloon was a standard
>> kaymont TA 1500, nothing special.
>>
>> The bottom, was a balloon we were testing from someone else, I don't
>> remember who, but that it was BLUE! I don't remember what the
>> inflated diameter would have been, or what the PSI would have needed
>> to be to create the added ballast needed for long duration flight.
>> Sorry this is just way too long ago, records were lost long ago,,
>> sorry gang.
>>
>> But we did know for the calculated diameter and final pressure that
>> we needed, we were able to calculate the amount of our locations
>> (close to sea level 1000 feet above sea level) we were able to
>> calculate the amount in cubic feet of this air we needed to put into
>> the balloon, so that it fills and pressurizes the right amount at
>> the right altitude.
>>
>> Ok we knew how many feet we needed to put into the ballast balloon,
>> but how do you measure how many feet? To the rescue comes Tim
>> K9SB, some lab equipment he was able to borrow, where we just used a
>> simple vacuum cleaner put on blow mode into this device, and this
>> device connected to the ballast balloon. it can be seen here getting
>> started. It looked simple, But according to Tim, the lab said it's
>> very accurate, like .1 of 1% accuracy! WOW!
>>
>> Now it has the correct amount in it and is being tied off to seal the
>> balloon. Rubber cement was also used to absolutely seal the neck.
>>
>> The restrictor bag material was made by some company. Who? don't

>> know, It was a raw rip stop nylon, that was incredibly light, it
>> even felt like it was silk, but it was nylon for sure, Yet incredibly
>> strong!
>>
>> A scrap piece that was less than a 1/4" wide and say four feet long
>> was tied to a rafter, and tied to a loop handle, no fancy streess
>> reducing knots or anything yet this tiny scrap was able to support
>> three of the launch crews weights!
>>
>> The seams were a special Hot air ballon type of seam, that was
>> suggested by the EarthWinds guys, and we had done for us. Again a
>> scrap piece to test the seam was 1" wide and it supported my weight
>> easily 200+ pounds!
>>
>> Well we hung this in the rafters and filed the lifting balloon as
>> seen here.
>>
>> You can see all the extra restrictor bag material hanging along with
>> the small bubble of sea level air in the Blue balloon.
>> Time for liftoff! It's off the ground at 8 AM.
>>
>> sadly I do not have an actual picture of the system leaving, but it
>> was in one way beautiful this gossamer bag hanging way below the
>> whole system, but then again it was UGLY that stuff looked like a
>> giant snot hanging below the payload! YUK!
>>
>> Well we started listening to the beacon, it's working GREAT!!
>> pegging our S meters of course, and many on the HF net on 40 are also
>> hearing it, it's working Great!
>>
>> We are timing it. hmmm, it seems to be raising faster than
>> expected.. but of course this has more extra lift in it than we have
>> ever used before also, so we thought this must be the reason it's
>> climbing so fast, close to 2000 feet per min we are calculating by
>> the timing of the message loop.
>>
>> Hmmm, somethings wrong,, 20 minutes into the flight, and the speed
>> is saying we are near the float altitude point of 75,000 feet already
>> by the speed of the message!
>>
>> That's impossible! But we hope for the best,
>>
>> Loop duration 1.5 sec,,
>>
>> 5 min later 1.25 sec,,
>>
>> 5 min later 1 second, and so on and on and on, we are thinking
>> crap the ballast failed and it's climbing way past the designed
>> float altitude.
>>

>> The code speed is getting crazy!
>>
>> I'm thinking this thing is getting near the end of that wiper sweep
>> of that home made unit and we should be getting pop soon.
>>
>> The code is now faster than even a dead short was on the ground. Yet
>> amazingly guys with computers listening say it's still sending the
>> perfect message! And they are timing it with their computers to get
>> the interval now. the interval is like a total of what in
>> milliseconds? Like 200 ms to send the whole message!
>> It soundes like this signal!
>> http://det.bi.ehu.es/~jtpjatae/sound/sitora.wav
>>
>> Well we are all waiting for the tell tale flutter of burst. 1.5
>> hours into flight, still strong,
>> 2 hours,,,
>> 2 1/2 hours! what is going on here!? it's getting weaker but still
>> strong it's like 20 over,,
>> Ok past the 3 hour mark, the ballast system must have worked. What
>> altiiude it's at is anyones guess tho.
>> Now it's been 6 hours after launch
>> For us it's getting weaker, down to s 5 or so. But either skip people
>> still have it at 10 to 20 over, and people that must be more local
>> to the balloon in Michigan, OH, PA, IN, etc still have it strong!
>>
>> It is now 10 hours after launch, we have no signal here in
>> Wisconsin. On the net Skip prople still have good signal, as well
>> as many along the east coast. Most of new england is hearing it quite
>> well according to the 40 meter net.
>>
>> 12 hours after launch 8PM, and similar situation, except skip must
>> have gotten LONG no one far away is hearing it anymore. we thought
>> maybe it came down after sundown,, BUT the people calling us on the
>> 40 meter net are far to far apart to have it flying too low or on
>> the ground, people from maine to Virginia were still hearing it quite
>> well. and a payload on the ground this would not happen.
>>
>> Their beam headings of all the people on the net had it located
>> somewhere in either eastern Maine or New brunswick. At least by all
>> the best guess beam headings.
>>
>> 40 meters is getting tough, propagation on the net is getting hard to
>> hear anyone, we try to go to 75 and it isn't aany better, We hang in
>> there until midnight and last set of beam heading from the people
>> still hearing it get it but now out in the atlantic someplace. We
>> hope for the best for the next day.
>>
>> Come sunup we check in on the 40 meter net freq,, a few still there,
>> and one guy in maine is still hearing it weak but in there and best
>> signal is at he says 30 to 40 degrees. But the band sucks for him on

>> 20 as well as me here in wisconsin, I hear nothing, or the equivalent
>> of an EME signal at best. if that or wishful imagination.. so we go
>> up top the balloon freq on 20 and start calling asking for people to
>> listen for the signal and try to get the best beam heading. several
>> europeans gave headings that all averaged between 330 and 340 or
>> so,, their best guess. But they were hearing it pretty well, we
>> thought way cool!!! This and the maine guys headings place the
>> balloon near Iceland someplace. if you go by the beam headings.. How
>> trustworthy they are on 20 meters well.....
>>
>> The day trudges on,, the system has been flying now for 28 hours.
>> it's noon here and I'm having trouble hearing anyone in europe
>> anymore. and the east coast can't hear the payload any more either.
>>
>> we listen off and on for several more hours hopeing that maybe at
>> local sundown the sifg would pop up, but we never heard anything.
>>
>> finally sundown here and still no peep,
>>
>> we listen the next day but hear nothing.
>>
>> It was never heard from again or has been recovered. How far it got,
>> we will never know. But it sure was a LOT of fun!
>>
>> Joe WB9SBD
>> Near Space Sciences
>>
>>
>>
>> Mike Manes wrote:
>>
>>> Thanks for the memory-jog. Yeah, here's a link re Earthwinds:
>>>
>>> http://en.wikipedia.org/wiki/Sky_anchor
>>>
>>> But you've got me at "Earthbreeze". Que'?
>>>
>>> Mike
>>>
>>> Joe wrote:
>>>
>>>> Yup exactly,
>>>>
>>>> That was "Earthwinds" remember that?
>>>>
>>>> And Our "Earthbreeze" project.
>>>>
>>>> Joe
>>>>
>>>> Mike Manes wrote:

>>>>
>>>>> Hi Joe,
>>>>>
>>>>> It made it thru to GPSL - I think, cuz I just saw it on an earlier
>>>>> email.
>>>>>
>>>>> And yeah, that's the ticket! This scheme was used by one of the
>>>>> guys trying
>>>>> to circle the globe solo. Need a compressor to pressurize the
>>>>> air, and a bag
>>>>> strong enough to hold it - like a superpressure balloon.
>>>>>
>>>>> We flew a similar rig for NOAA's GAINS project some time ago,
>>>>> except that the
>>>>> latex airbag was INSIDE the larger stiff He bag. A dc-powered
>>>>> turbine running
>>>>> up to 20,000 RPM was used to pressurize the air in the bag, which
>>>>> simultaneously compressed the He lift gas in the outer bag. Idea
>>>>> was to
>>>>> control balloon altitude to catch the desired winds for navigation
>>>>> purposes.
>>>>> But that pump sure took a LOT of power!
>>>>>
>>>>> 73 de Mike W5VSI
>>>>>
>>>>> Joe wrote:
>>>>>
>>>>>> You mean one of these?
>>>>>>
>>>>>> I tried sending it through the group but it was stopped I guess
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>>>>>>>> >> *An Excellent Credit Score is 750. See Yours in Just 2
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>>>>>>>> <http://pr.atwola.com/promoclk/100126575x1221323041x1201367261/aol?redir=http://w
ww.freecreditreport.com/pm/default.aspx?sc=668072%26hmpgID=62%26bcd=JulyExcfooterNO62>*
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>>> No virus found in this incoming message.
>>> Checked by AVG - www.avg.com Version: 8.5.392 / Virus Database:
>>> 270.13.21/2252 - Release Date: 07/21/09 05:58:00
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.22/2253 - Release Date: 07/21/09 18:02:00
>
>
>

5734. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 03:00:52 UTC
From: Mark Conner
Topic: 4595 Message: 5734

I have a Vista x64 laptop that LiftWin won't run on either. It's OK
on my 32-bit Vista laptop. It's probably an incompatibility with a
64-bit OS and/or CPU - the program is several years old and I think
was built with even older tools.

73 de Mark N9XTN

On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> wrote:

> I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?
>

5735. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 03:34:24 UTC
From: Bruce Coates
Topic: 4595 Message: 5735

Hi Mark

I don't have access to Win 7 x64 right now so this is just a guess. I suspect you already have it but if you don't, you'll need the VB runtime DLL, VBRUN300.DLL. I'm not sure is there's any compatibility issues with the x64 operating system or not. Next, try right clicking on liftw-041.exe and select Properties. You should see a Compatibility tab. This allows you to trick older applications into believing that you're running an older version of Windows. Under Compatibility, try choosing Windows 95.

I hope that helps.

73, Bruce
VE5BNC

----- Original Message -----
From: Mark Huffman
To: GPSL@yahoogroups.com
Sent: Tuesday, July 21, 2009 9:12 PM
Subject: [GPSL] GPSL 2009

Thanks to Paul and his XYL on the success of GPSL 2009 and of course to all others that helped and participated. Carol and I really enjoyed our 2nd GPSL and are looking forward to 2010. We enjoyed seeing folks from 2008 again and missed those who did not make it this year. For our Canadian friends, we look forward to your return in 2010.

One problem I have that maybe someone can solve.

I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?

One more note, My jaw has healed nicely and all I can say about the situation is "You can't fix stupid and don't look down a barrel to see if it is loaded!" 73's

Mark (N5OTD) and Carol Huffman

5736. Re: [GPSL] GPSL Website Addition

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 03:53:33 UTC
From: Keith Kaiser
Topic: 5345 Message: 5736

Weird, I get GPSL mail all day long.

My other eMail is kkaiser@...

On May 28, 2009, at 7:10 PM, Harry M wrote:

>
>
>
> Keith,
>
> For whatever reason your gmail keeps getting bounced.
>
> Reason: 5.2.1 The email account that you tried to reach is
> disabled. 6si560104pzk.109
> -----
>
> Please add the following to the GPSL Website under "Expected 2009
> Participants".
> We will be doing a joint flight.
>
> Northwest Technical Institute (NWTI), Arkansas
>
>
> Thanks, CU soon!
> Harry KC5TRB
> ORB
>
>
>
>

73's
Keith Kaiser
wa0tjt@...

5737. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 09:05:37 UTC
From: wb8elk@aol.com
Topic: 5652 Message: 5737

Hi Joe,

The Earthwinds designer was Tim Lachenmeier who now operates Near Space Corp in Oregon.

I was at most of the Earthwinds launches (and attempted launches). The first one was at the Goodyear blimp hangar in Akron, OH, Richard Branson of Virgin Atlantic was the main sponsor of that flight and talked to me on my dad's 2m radio as I drove in asking about the ham radio experiment....the later ones were at Stead AFB near Reno, Nevada. It took 3 tow trucks to winch the large zero pressure balloon up in place over the 22,000 pound gondola and then winch it up to the full height over the large ballast balloon (made of Spectra fiber I believe).

I also had a payload onboard (designed by myself and Bob Rau N8IYD of Michigan). It was designed to transmit the GPS position every 30 minutes via their HF radio on 10 meters and we had school kids around the world ready to track their progress via this method.....sadly the flights never got very far or stayed up very long....as I recall the last flight was the most successful but they had to come down due to a frozen vent valve on the ballast balloon. One previous attempt crashed into the Sierra Nevada mountains and they rolled down the snow-covered mountain peak in the gondola....I remember telling Barron Hilton (one of the main sponsors of the balloon) that the balloon had crashed just as he was handing out the cigars and champaign to celebrate a "successful" launch. They had a very slow ascent rate and I observed what appeared to be black powder falling from the crew cabin at the edge of the airport....turned out to be loads of lead shot ballast which came pretty close to my rental car as I recall. I also recall the surface temp was -20 F....just try to shot photos with a camera or even stand in one place very long under those conditions, let alone inflate a huge balloon like this. I picked up what appeared to be a steaming hot cup of coffee at the food tent, but it was ice cold, but steaming compared to the outside temp.

I have a number of samples of the Earthwinds top zero pressure balloon envelope....had lots of load tape in it.

I'll try to find some of my photos and will post them.

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100126575x1223096155x1201715982/aol?redir=http:%2F%2Faltfarm.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D6)

5738. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 09:23:37 UTC
From: wb8elk@aol.com
Topic: 5652 Message: 5738

Found an interesting book about Earthwinds online:

_http://books.google.com/books?id=EygvFj7J2fsC&pg=PA200&lpg=PA200&dq=tim+lachenmeier&source=bl&ots=ktwOSdmIJh&sig=BG7H9Zfenk6EdiUpp6AnyLNh_gk&hl=en&ei=_dJmSpaUOsq3twfy5vjsDw&sa=X&oi=book_result&ct=result&resnum=10_
(http://books.google.com/books?id=EygvFj7J2fsC&pg=PA200&lpg=PA200&dq=tim+lachenmeier&source=bl&ots=ktwOSdmIJh&sig=BG7H9Zfenk6EdiUpp6AnyLNh_gk&hl=en&ei=_dJmSpaUOsq3twfy5vjsDw&sa=X&oi=book_result&ct=result&resnum=10)

- Bill WB8ELK
**********Dell Deals: Treat yourself to a sweet deal on popular laptops!
(http://pr.atwola.com/promoclk/100126575x1223096155x1201715982/aol?redir=http:%2F%2Faltfarm.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D6)

5739. RE: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 12:33:42 UTC
From: Doug Loughmiller
Topic: 5652 Message: 5739

Hi Joe,

We were testing a system that required us to couple our payload directly to the balloon, thus there wasn't any place above the payload to attach the parachute. We were measuring internal pressure of the balloon envelope in flight as we were collecting balloon performance data with the regards to the pressure at the burst point.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Monday, July 20, 2009 2:00 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Questions

Why was the chute UNDER the payload?

Mike Manes wrote:

Hi Doug,

Balloonacy certainly provides an abundance of "teachable moments", and you'll
experience many more as you continue pursuing this affliction.

And you and Micheal are more than welcome to join us on any of our flights out of CO. But you could probably dredge up 95% of what you could learn from
a trip up here by browsing our web site, www.eoss.org. We have stuff up there
that goes back nearly 20 years.

You might be able to get past the risk of letting the payload fall into the parachute canopy by adding a small pilot 'chute on a long line attached to the main 'chute apex. This might be enough to force the main 'chute go upright, thus dumping the payload back out where it belongs. Or not ... :=P

73 de Mike W5VSI

Doug Loughmiller wrote:

Hi Mike,

Thanks for your note. Well, Michael and I are not too bummed as we learned a lot and absolutely enjoyed the GPSL. As you are probably aware, this was our

first meeting but it won't be our last. Yes, the parachute on the bottom was a challenge and not well implemented as we planned to but some weight at the very bottom to try to hold it taught but in our haste to get off the ground we managed to fail to but the weight on. You're right it is a slow ascent!

We managed to get a lot of useful data and like I say, we learned a lot.

I particularly enjoyed meeting the folks from your group. And I can't tell all of you how much Michael and I appreciated the offers to help us search for the package once word got back to everyone that we had a problem. I am very impressed with the passion of your team. I mentioned to Marty and others last night at dinner, that I would like to come up and participate in a flight with your group some time so maybe I can arrange a trip up to do that one of these days.

Take care and thanks for the words of advice. We knew better and made several mistakes. This wasn't one of our finest hours but nevertheless, we had fun!

73,

Doug, W5BL
-----Original Message-----
From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@
<mailto:GPSL@yahoogroups.com> yahoogroups.com] On Behalf Of Mike
Manes
Sent: Sunday, July 19, 2009 10:27 PM
To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
Subject: Re: [GPSL] GPSL Questions

Hi Doug,

What a bummer. And another testament to never giving Murphy an even break.

EOSS has learned the value of that backup DF beacon more times than we care
to
recall, going back to EOSS-1 in 1990 and most recently just last fall, when the primary APRS tracker suffered an xmtr or antenna failure - which we were unable to duplicate on the ground. It was a 0.9 lb totally independent DF beacon with 48+ hrs of battery life that affected our recovery. Cheap insurance.

I did enjoy watching your launch on Bill's BATC video link, and wish you
guys
great success with flying the parachute on the bottom. Sure makes for a leisurely ascent! But descent could be a lot swifter than expected if the payload falls into the parachute canopy on burst/release. It's happened during PBC even with conventional flight string configurations - even at JPL!

73 de Mike W5VSI
CTO EOSS

Doug Loughmiller wrote:

Hi Zack,

Sorry I missed your calls last night. I got home a little while ago and saw your question. We were unsuccessful (at least so far) in recovering the payload. We simply didn't have enough data to narrow the search area down and I'm sure the batteries were depleted by the time we headed back to Topeka. Lesson learned for us was to make sure we have a low power beacon on board with an oversized battery so that we know we have at least some RF coming off of the package for an extended period of time. Michael and I are both disappointed that we lost the package but we gain data and learned a lot so it wasn't a total loss.

I want to thank you and the others for you offer to help us search for the package. I am hoping when harvest time comes around that we get a call from someone who has found our package in their corn field.

I lived in Kansas many years ago so I enjoyed traveling the country side again. Michael and I really enjoyed our first GPSL and plan to participate again next year. Thanks for making us feel so welcome.

73,

Doug, W5BL

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@
<mailto:GPSL@yahoogroups.com> yahoogroups.com] *On Behalf Of
*Zack Clobes
Sent: Sunday, July 19, 2009 9:32 AM
To: Group GPSL
Subject: [GPSL] GPSL Questions

First, who's balloon got stuck in the tree. I got so involved in getting it out, that I don't know who's we were recovering.

Secondly, has anyone heard anything from ARBONET? I tried calling Doug back a couple of times last night, but never got an answer.

Thanks for another good GPSL!

Zack Clobes, W0ZC
Project: Traveler

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.20/2250 - Release Date: 07/20/09
06:16:00

5740. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 13:30:42 UTC
From: Joe
Topic: 5652 Message: 5740

Pretty cool,

I wonder if that spec sheet she gave out was similar to the same one I had here. Lots of cool data as well as images. Then I got a bunch of stuff that was like school related from them. Like a big poster, and a bunch of like worksheets to do like tracking on it with or something. Wow the mind is getting foggy!

Joe

wb8elk@... wrote:

>
>
> Found an interesting book about Earthwinds online:
>
> http://books.google.com/books?id=EygvFj7J2fsC&pg=PA200&lpg=PA200&dq=tim+lachenmeier&source=bl&ots=ktwOSdmIJh&sig=BG7H9Zfenk6EdiUpp6AnyLNh_gk&hl=en&ei=_dJmSpaUOsq3twfy5vjsDw&sa=X&oi=book_result&ct=result&resnum=10
> <http://books.google.com/books?id=EygvFj7J2fsC&pg=PA200&lpg=PA200&dq=tim+lachenmeier&source=bl&ots=ktwOSdmIJh&sig=BG7H9Zfenk6EdiUpp6AnyLNh_gk&hl=en&ei=_dJmSpaUOsq3twfy5vjsDw&sa=X&oi=book_result&ct=result&resnum=10>
>
> - Bill WB8ELK
>
> ---
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
>
>
>

5741. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 16:33:55 UTC
From: Mark Garrett
Topic: 5652 Message: 5741
Attachments: 1 described; binary payloads are missing from this source WARC

Joe:

You mean this Id'er from Monticellow Micro:

http://www.monticellomicro.com/ider.html

The Id'er is the smaller of the two boards.
From what I have been told Steve does not have the program to encode the chip however you can bug him if you like at the address at the bottom of the page. I would love to have a few more of these Id'ers as well so if he hears from others he may start looking into writing a new program or generating a new chip. Nice thing was these Id'ers only consumed 3 ma to operate.

Mark Garrett, KA9SZX

I told you this was OLD, we were still at the time of that flight caled WARBA.
The Wisconsin Amateur Radio Balloon Association. WARBA
Final payload design and layout was made by Steve WB9ZRE
The bellows I think came from Bill ELK? not too sure, way too long ago to remember now!
The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen above. And if was fed directly into a full sized dipole that came out of the payload top and bottom.

To the left of the "Transmitter" is the brain chip. It was made by someone that Mark KA9SZX knew, it was an awesome chip, I would love to get more of them.

It had a CW message that was programmed into it. and by the value of the resistor on two pins determined the speed the CW was sent at! UTTER simplicity!!!

We just tied that resistor baroswitch modded unit to this chip, and done perfect code.

The message at sea level was agonizing slow, Like 1 WPM or so, the whole message took like 45 seconds to loop through! Slide it to the other end (dead short) and it was too fast to copy! but still sent good code. it sounded like amtor or some auto repeating digital signal, each loop was like 1/2 a second in duration or even less!

5742. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 17:16:52 UTC
From: Joe
Topic: 5652 Message: 5742
Attachments: 2 described; binary payloads are missing from this source WARC

Mark Garrett wrote:

> Joe:
>
> You mean this Id'er from Monticellow Micro:
>
> http://www.monticellomicro.com/ider.html
>
> The Id'er is the smaller of the two boards.
> From what I have been told Steve does not have the program to encode
> the chip however you can bug him if you like at the address at the
> bottom of the page. I would love to have a few more of these Id'ers
> as well so if he hears from others he may start looking into writing a
> new program or generating a new chip. Nice thing was these Id'ers
> only consumed 3 ma to operate.
>
> Mark Garrett, KA9SZX
>

I'm not too sure what is what, below is a closeup of the board.

I see the clock ossc tranny, 1 diode, 2 disc caps and 3 transistors,
then there are the two 8 legged chips,
One with the label, and one that might say,,,555? might it be just a
type of 555 timer?

Joe

>
> I told you this was OLD, we were still at the time of that flight
> caled WARBA.
> The Wisconsin Amateur Radio Balloon Association. WARBA
> Final payload design and layout was made by Steve WB9ZRE
> The bellows I think came from Bill ELK? not too sure, way too long
> ago to remember now!
> The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen
> above. And if was fed directly into a full sized dipole that came out
> of the payload top and bottom.
>
> To the left of the "Transmitter" is the brain chip. It was made by
> someone that Mark KA9SZX knew, it was an awesome chip, I would love
> to get more of them.
>
> It had a CW message that was programmed into it. and by the value of
> the resistor on two pins determined the speed the CW was sent at!
> UTTER simplicity!!!

>
> We just tied that resistor baroswitch modded unit to this chip, and
> done perfect code.
>
> The message at sea level was agonizing slow, Like 1 WPM or so, the
> whole message took like 45 seconds to loop through! Slide it to the
> other end (dead short) and it was too fast to copy! but still sent
> good code. it sounded like amtor or some auto repeating digital
> signal, each loop was like 1/2 a second in duration or even less!
>
>
>--
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
>
>
>

5743. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 19:33:54 UTC
From: wb8elk@aol.com
Topic: 5652 Message: 5743
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Joe,

? Yes, that's a TLC555 timer. The bellows I sent you for this project was from an old VIZ radiosonde. The bellows in it's original form?had over 150 contacts on?it for each barometric pressure increment...I once?designed a PROM circuit?programmed to increment the morse code output to correspond with the bellows switch number....I flew it on one of Norm Kjome's zero pressure balloons from Univ of Wyoming and it corresponded to his data very well until after cutdown. I have quite a few Xilinx 17128 and 17256 chips (the big brother of the ones used for the monticellomicro ID....at this point I don't see the advantage of using them (and the 555 timer) compared to a low-cost microcontroller and no way to do A/D telemetry other than varying the code speed...but in it's day it was a cheap alternative.?It wouldn't take too much effort to program in a CW message in these chips and I do have the programmer for them at work....I may put one together just for fun.

? I also remember tracking your Earth Breeze balloon as it traveled across the midwest and east coast.....boy, was it fast CW....sounded like a cricket as I recall.

73s de Bill WB8ELK

??

?

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jul 22, 2009 12:16 pm
Subject: Re: [GPSL] GPSL Questions

Mark Garrett wrote:

Joe:

?

You mean this Id'er from Monticellow Micro:

?

http://www.monticellomicro.com/ider.html

?

The Id'er is the smaller of the two boards.???

From what I have been told Steve does not have the program to encode the chip however you can bug him if you like at the address at the bottom of the page.? I would love to have a few more of these Id'ers as well so if he hears from others he may start looking into

writing a new program or generating a new chip.? Nice thing was these Id'ers only?consumed 3 ma to operate.

?

Mark Garrett, KA9SZX

I'm not too sure? what is what, below is a closeup of the board.

I see the clock ossc tranny, 1 diode, 2 disc caps and 3 transistors,? then there are the two 8 legged chips,
One with the label,? and one that might say,,,555? might it be just a type of 555 timer?

Joe

I told you this was OLD,? we were still at the time of that flight caled WARBA.
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The bellows I think came from Bill ELK?? not too sure,? way too long ago to remember now!
The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen above. And if was fed directly into a full sized dipole that came out of the payload top and bottom.

To the left of the "Transmitter" is the brain chip.? It was made by someone that Mark KA9SZX? knew,? it was an awesome chip, I would love to get more of them.

It had a CW message that was programmed into it. and by the value of the resistor on two pins determined the speed the CW was sent at!? UTTER simplicity!!!

We just tied that resistor baroswitch modded unit to this chip, and done? perfect code.

The message at sea level was agonizing slow,? Like 1 WPM or so,? the whole message took like 45 seconds to loop through!? Slide it to the other end (dead short) and it was too fast to copy!? but still sent good code. it sounded like amtor or some auto repeating digital signal,? each loop was like 1/2 a second in duration or even less!

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00

5744. GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 19:38:46 UTC
From: wb8elk@aol.com
Topic: 5744 Message: 5744

Did anyone save the GFS wind model for launch day of GPSL 2009?....I wanted to do some calculations for Arbonet and didn't save that wind model data before it went away from NOAA's website and could sure use that data file.

- Bill WB8ELK

5745. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 19:46:41 UTC
From: Mark Conner
Topic: 5744 Message: 5745

You should be able to go to the "archived meteorology" page instead of
the "current meterology" page on the same web site to get the date you
want.

Also, you can get the TOP sounding for that morning, which should be
an even better representation of the winds that morning.

73 de Mark N9XTN

On Wed, Jul 22, 2009 at 14:38, <wb8elk@...> wrote:
>
>
> Did anyone save the GFS wind model for launch day of GPSL 2009?....I wanted
> to do some calculations for Arbonet and didn't save that wind model data
> before it went away from NOAA's website and could sure use that data file.
>
> - Bill WB8ELK
> _____
> Dell Deals: Treat yourself to a sweet deal on popular laptops!
>
>

5746. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 19:47:49 UTC
From: Mark Conner
Topic: 5744 Message: 5746

It'd help if I'd paste the URL:

http://gus.arlhq.noaa.gov/ready/amet.html

On Wed, Jul 22, 2009 at 14:46, Mark Conner<mconner1@...> wrote:
> You should be able to go to the "archived meteorology" page instead of
> the "current meterology" page on the same web site to get the date you
> want.
>
> Also, you can get the TOP sounding for that morning, which should be
> an even better representation of the winds that morning.
>
> 73 de Mark N9XTN
>
> On Wed, Jul 22, 2009 at 14:38, <wb8elk@...> wrote:
>>
>>
>> Did anyone save the GFS wind model for launch day of GPSL 2009?....I wanted
>> to do some calculations for Arbonet and didn't save that wind model data
>> before it went away from NOAA's website and could sure use that data file.
>>
>> - Bill WB8ELK
>> _____
>> Dell Deals: Treat yourself to a sweet deal on popular laptops!
>>
>>
>

5747. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 19:49:32 UTC
From: Zack Clobes
Topic: 5744 Message: 5747

I've got a copy from Friday afternoon. I think Mark said that they're archived somewhere on the web too.

However, it seems like it would make more since to extrapolate the soundings from our actual flights.

Zack

On Wed, Jul 22, 2009 at 2:38 PM, <wb8elk@...> wrote:

>
>
> Did anyone save the GFS wind model for launch day of GPSL 2009?....I wanted
> to do some calculations for Arbonet and didn't save that wind model data
> before it went away from NOAA's website and could sure use that data file.
>
> - Bill WB8ELK
>
> ------------------------------
> Dell Deals: Treat yourself to a sweet deal on popular laptops!<http://pr.atwola.com/promoclk/100126575x1223096155x1201715982/aol?redir=http:%2F%2Faltfarm.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D6>
>
>

5748. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 20:03:34 UTC
From: Joe
Topic: 5652 Message: 5748
Attachments: 2 described; binary payloads are missing from this source WARC

Yeah, Now days there are more likely many chips that can do more. Thats for sure! But man in it;'s day, this was what 1992 or so? maybe as soon as 90?

I remember I lost the farm in 93 and it was a few years before that,

And fast wasn't the word for it. I was amazed that that clock ossc could turn on and off that fast! and maake cirp free CW too!

wb8elk@... wrote:

> Hi Joe,
>
> Yes, that's a TLC555 timer. The bellows I sent you for this project
> was from an old VIZ radiosonde. The bellows in it's original form had
> over 150 contacts on it for each barometric pressure increment...I
> once designed a PROM circuit programmed to increment the morse code
> output to correspond with the bellows switch number....I flew it on
> one of Norm Kjome's zero pressure balloons from Univ of Wyoming and it
> corresponded to his data very well until after cutdown. I have quite a
> few Xilinx 17128 and 17256 chips (the big brother of the ones used for
> the monticellomicro ID....at this point I don't see the advantage of
> using them (and the 555 timer) compared to a low-cost microcontroller
> and no way to do A/D telemetry other than varying the code speed...but
> in it's day it was a cheap alternative. It wouldn't take too much
> effort to program in a CW message in these chips and I do have the
> programmer for them at work....I may put one together just for! ! fun.
>
> I also remember tracking your Earth Breeze balloon as it traveled
> across the midwest and east coast.....boy, was it fast CW....sounded
> like a cricket as I recall.
>
> 73s de Bill WB8ELK
>
>
>
>
>
>
> -----Original Message-----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Jul 22, 2009 12:16 pm
> Subject: Re: [GPSL] GPSL Questions
>

>
>
> Mark Garrett wrote:
>
>> Joe:
>>
>> You mean this Id'er from Monticellow Micro:
>>
>> http://www.monticellomicro.com/ider.html
>>
>> The Id'er is the smaller of the two boards.
>> From what I have been told Steve does not have the program to encode
>> the chip however you can bug him if you like at the address at the
>> bottom of the page. I would love to have a few more of these Id'ers
>> as well so if he hears from others he may start looking into writing
>> a new program or generating a new chip. Nice thing was these Id'ers
>> only consumed 3 ma to operate.
>>
>> Mark Garrett, KA9SZX
>>
> I'm not too sure what is what, below is a closeup of the board.
>
> I see the clock ossc tranny, 1 diode, 2 disc caps and 3 transistors,
> then there are the two 8 legged chips,
> One with the label, and one that might say,,,555? might it be just a
> type of 555 timer?
>
>
> Joe
>
>>
>> I told you this was OLD, we were still at the time of that flight
>> caled WARBA.
>> The Wisconsin Amateur Radio Balloon Association. WARBA
>> Final payload design and layout was made by Steve WB9ZRE
>> The bellows I think came from Bill ELK? not too sure, way too long
>> ago to remember now!
>> The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen
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>> of the payload top and bottom.
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>> To the left of the "Transmitter" is the brain chip. It was made by
>> someone that Mark KA9SZX knew, it was an awesome chip, I would love
>> to get more of them.
>>
>> It had a CW message that was programmed into it. and by the value of
>> the resistor on two pins determined the speed the CW was sent at!
>> UTTER simplicity!!!
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>> We just tied that resistor baroswitch modded unit to this chip, and

>> done perfect code.
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>> The message at sea level was agonizing slow, Like 1 WPM or so, the
>> whole message took like 45 seconds to loop through! Slide it to the
>> other end (dead short) and it was too fast to copy! but still sent
>> good code. it sounded like amtor or some auto repeating digital
>> signal, each loop was like 1/2 a second in duration or even less!
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>>No virus found in this incoming message.
>>Checked by AVG - www.avg.com
>>Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
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> Dell Deals: Treat yourself to a sweet deal on popular laptops!
> <http://pr.atwola.com/promoclk/100126575x1223096155x1201715982/aol?redir=http:%2F%2Faltf
arm.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D6>
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
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5749. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 20:36:54 UTC
From: Keith Kaiser
Topic: 5744 Message: 5749

I have a copy from first thing Saturday morning. Let me know if you
still need it.

On Jul 22, 2009, at 2:49 PM, Zack Clobes wrote:

> I've got a copy from Friday afternoon. I think Mark said that
> they're archived somewhere on the web too.
>
> However, it seems like it would make more since to extrapolate the
> soundings from our actual flights.
>
> Zack
>
>
> On Wed, Jul 22, 2009 at 2:38 PM, <wb8elk@...> wrote:
>
> Did anyone save the GFS wind model for launch day of GPSL 2009?....I
> wanted to do some calculations for Arbonet and didn't save that wind
> model data before it went away from NOAA's website and could sure
> use that data file.
>
> - Bill WB8ELK
>
>
> Dell Deals: Treat yourself to a sweet deal on popular laptops!
>
>
>

73's
Keith Kaiser
wa0tjt@...

5750. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 21:42:13 UTC
From: Mike Manes
Topic: 4595 Message: 5750

LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.

Might see if loading a newer VBRUNxxx.dll might do the trick.
73 de Mike W5VSI

Mark Conner wrote:
> I have a Vista x64 laptop that LiftWin won't run on either. It's OK
> on my 32-bit Vista laptop. It's probably an incompatibility with a
> 64-bit OS and/or CPU - the program is several years old and I think
> was built with even older tools.
>
> 73 de Mark N9XTN
>
> On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> wrote:
>
>> I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5751. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 20:45:41 UTC
From: Joe
Topic: 4595 Message: 5751

I forgot,, What does Liftwin do?

Mike Manes wrote:

>LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB
>runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.
>
>Might see if loading a newer VBRUNxxx.dll might do the trick.
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>I have a Vista x64 laptop that LiftWin won't run on either. It's OK
>>on my 32-bit Vista laptop. It's probably an incompatibility with a
>>64-bit OS and/or CPU - the program is several years old and I think
>>was built with even older tools.
>>
>>73 de Mark N9XTN
>>
>>On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> wrote:
>>
>>
>>
>>>I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?
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>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
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>

5752. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-22 20:49:24 UTC
From: Zack Clobes
Topic: 4595 Message: 5752

Does anyone have the original source code for WinLift? I'd be happy to migrate it to .NET if the original author (not even sure who that was) isn't interested.

Zack

On Wed, Jul 22, 2009 at 3:45 PM, Joe <nss@...> wrote:

>
>
> I forgot,, What does Liftwin do?
>
> Mike Manes wrote:
>
> LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB
> runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.
>
> Might see if loading a newer VBRUNxxx.dll might do the trick.
> 73 de Mike W5VSI
>
> Mark Conner wrote:
>
>
> I have a Vista x64 laptop that LiftWin won't run on either. It's OK
> on my 32-bit Vista laptop. It's probably an incompatibility with a
> 64-bit OS and/or CPU - the program is several years old and I think
> was built with even older tools.
>
> 73 de Mark N9XTN
>
> On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> <huffman333@...> wrote:
>
>
>
> I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?
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> Yahoo! Groups Links
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5753. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 00:46:53 UTC
From: Harry M
Topic: 5744 Message: 5753
Attachments: 4 described; binary payloads are missing from this source WARC

Here's what I have Bill.
I don't have the original text just the BalTrak conversion.

If the attachments don't go throu let me know and I'll send them direct.

73 Harry

5754. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 04:23:07 UTC
From: Mike Manes
Topic: 5652 Message: 5754

Hi Joe,

You could roll your own IDer with a $4 PIXAXE08 8-pin DIP. I has 2 10-bit ADC's and 4 IO pins. Runs on +3 to +6 Vdc with internal 4 MHz clock at a few ma Icc. I use one to run the SamCam2 servo, including snap detection using a CdS cell looking at the status LEDs on the Canon 570IS plus a pair of reed switches for drum position detection. Programs in Basic via on-chip serial port using freebie dev sys.

73 de Mike W5VSI

Mark Garrett wrote:
> Joe:
>
> You mean this Id'er from Monticellow Micro:
>
> http://www.monticellomicro.com/ider.html
>
> The Id'er is the smaller of the two boards.
> From what I have been told Steve does not have the program to encode
> the chip however you can bug him if you like at the address at the
> bottom of the page. I would love to have a few more of these Id'ers as
> well so if he hears from others he may start looking into writing a new
> program or generating a new chip. Nice thing was these Id'ers
> only consumed 3 ma to operate.
>
> Mark Garrett, KA9SZX
>
>
> I told you this was OLD, we were still at the time of that flight caled
> WARBA.
> The Wisconsin Amateur Radio Balloon Association. WARBA
> Final payload design and layout was made by Steve WB9ZRE
> The bellows I think came from Bill ELK? not too sure, way too long ago
> to remember now!
> The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen
> above. And if was fed directly into a full sized dipole that came out of
> the payload top and bottom.
>
> To the left of the "Transmitter" is the brain chip. It was made by
> someone that Mark KA9SZX knew, it was an awesome chip, I would love to
> get more of them.
>
> It had a CW message that was programmed into it. and by the value of the
> resistor on two pins determined the speed the CW was sent at! UTTER
> simplicity!!!

>
> We just tied that resistor baroswitch modded unit to this chip, and
> done perfect code.
>
> The message at sea level was agonizing slow, Like 1 WPM or so, the
> whole message took like 45 seconds to loop through! Slide it to the
> other end (dead short) and it was too fast to copy! but still sent good
> code. it sounded like amtor or some auto repeating digital signal, each
> loop was like 1/2 a second in duration or even less!
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5755. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 04:42:28 UTC
From: Mike Manes
Topic: 4595 Message: 5755

LiftWin is Hank Riley's balloon fill app. Select balloon make & model,
fill gas (He or H2), launch alt & temp, neck load. It calculates neck
lift and ascent rate and burst alt for a preselected range of balloon fill
diameters.

Real handy. I've found that it does fill a tad heavy for 1000 fpm, so
I use Norm's 115 to 125% gross lift - a couple of tenth's of a foot diameter
smaller. There's a link on the eoss web site.

73 de Mike W5VSI

Joe wrote:
>
>
> I forgot,, What does Liftwin do?
>
> Mike Manes wrote:
>> LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB
>> runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.
>>
>> Might see if loading a newer VBRUNxxx.dll might do the trick.
>> 73 de Mike W5VSI
>>
>> Mark Conner wrote:
>>
>>> I have a Vista x64 laptop that LiftWin won't run on either. It's OK
>>> on my 32-bit Vista laptop. It's probably an incompatibility with a
>>> 64-bit OS and/or CPU - the program is several years old and I think
>>> was built with even older tools.
>>>
>>> 73 de Mark N9XTN
>>>
>>> On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> wrote:
>>>
>>>
>>>> I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives
me an error when trying to install. Error says it is not compatiable with my system. Does
anyone have any solutions or am I stuck using 2 laptops?
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5756. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 04:34:38 UTC
From: Joe
Topic: 4595 Message: 5756

ahh Ok,

O'll stick with my math method, it;s always been dead on for us.

Mike Manes wrote:

>LiftWin is Hank Riley's balloon fill app. Select balloon make & model,
>fill gas (He or H2), launch alt & temp, neck load. It calculates neck
>lift and ascent rate and burst alt for a preselected range of balloon fill
>diameters.
>
>Real handy. I've found that it does fill a tad heavy for 1000 fpm, so
>I use Norm's 115 to 125% gross lift - a couple of tenth's of a foot diameter
>smaller. There's a link on the eoss web site.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>I forgot,, What does Liftwin do?
>>
>>Mike Manes wrote:
>>
>>
>>>LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB
>>>runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.
>>>
>>>Might see if loading a newer VBRUNxxx.dll might do the trick.
>>>73 de Mike W5VSI
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>>>Mark Conner wrote:
>>>
>>>
>>>
>>>>I have a Vista x64 laptop that LiftWin won't run on either. It's OK
>>>>on my 32-bit Vista laptop. It's probably an incompatibility with a
>>>>64-bit OS and/or CPU - the program is several years old and I think
>>>>was built with even older tools.
>>>>
>>>>73 de Mark N9XTN
>>>>
>>>>On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...> wrote:
>>>>
>>>>
>>>>

>>>>
>>>>>I have a HP laptop, running windows 7, 64 bit AMD. The problem is that liftwin gives me an error when trying to install. Error says it is not compatiable with my system. Does anyone have any solutions or am I stuck using 2 laptops?
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.24/2255 - Release Date: 07/22/09 18:00:00
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5757. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 06:13:29 UTC
From: wb8elk@aol.com
Topic: 5744 Message: 5757

Hi Mark,

Which of the archived datasets most closely resembles the actual GFS
data since there is no archived listing for the GFS model.

- Bill
**********Dell Deals: Treat yourself to a sweet deal on popular
laptops!
(http://pr.atwola.com/promoclk/100126575x1223100673x1201716527/aol?redir=http:%2F%2Faltfar
m.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D7)

5758. RE: [GPSL] GPSL 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 07:35:45 UTC
From: Rick von Glahn
Topic: 4595 Message: 5758

If this is a 64 vs 32 bit problem, Win7 Pro and enterprise and Ultimate will be equipped with a Windows Xp compatability mode that creates a full XP OS in a virtual machine. I haven't checked out if this is available to RC copies but, I believe the RC is an Ultimate copy so, ...

First check this page and download and run Securable unless you are ABSOLUTELY sure your processor has hardware virtualization capability. There are a surprising number of current chips that do NOT.

http://www.grc.com/securable.htm

Then, assuming your CPU is VM capable, go here:

http://www.microsoft.com/windows/virtual-pc/download.aspx

and download the XP Mode VM to install into Win7.

Probablilty of Liftwin running in this environment ... SWAG 99.9%. But a VM is going to appear to Liftwin as a 32 bit OS.

Actually, I don't do this cause I'm coming from it from the other direction. I have a Mac and virtualize all my Windows machines. So, I'm not going to run a virtual Win7 and they try and run a 2 deep virtual machine inside Win7 to run XP Mode. Actually, wouldn't work since the virtualized Win7 is running on a "virtual" chip. Or at least I think that is how things would look to a 2 deep VM manager. So, ... good luck. But, should work ok.

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Mike Manes
> Sent: Wednesday, July 22, 2009 3:42 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] GPSL 2009
>
> LiftWin was written in VBasic V3.0 under W98 or W2K, and requires a VB
> runtime file, VBRUN300.dll; mine's dated 5/1993, V3.0.5.38.
>
> Might see if loading a newer VBRUNxxx.dll might do the trick.
> 73 de Mike W5VSI
>
> Mark Conner wrote:
> > I have a Vista x64 laptop that LiftWin won't run on either. It's OK
> > on my 32-bit Vista laptop. It's probably an incompatibility with a
> > 64-bit OS and/or CPU - the program is several years old and I think
> > was built with even older tools.

> >
> > 73 de Mark N9XTN
> >
> > On Tue, Jul 21, 2009 at 21:12, Mark Huffman<huffman333@...>
> wrote:
> >
> >> I have a HP laptop, running windows 7, 64 bit AMD. The problem is
> that liftwin gives me an error when trying to install. Error says it
> is not compatiable with my system. Does anyone have any solutions or
> am I stuck using 2 laptops?
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> > Yahoo! Groups Links
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> > --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.24/2255 - Release Date:
> 07/22/09 18:00:00

5759. Re: [GPSL] GPSL Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-23 18:44:38 UTC
From: Mark Garrett
Topic: 5652 Message: 5759
Attachments: 2 described; binary payloads are missing from this source WARC

Joe:

I had the beta version of this ID'er. Designed by Steve Look (to fit in model rockets) I placed it in my 10 meter beacon and it ran 24/7 for 15 years when I moved and the message was no longer valid. When Steve informed me that he could no longer program a new chip up I went with a Freakin Beacon.   It was designed and operational in Nov 91 and I placed the beacon on the air in Jan 92.   Steve had a lot of Canadian users of this ID'er.

Mark Garrett, KA9SZX

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, July 22, 2009 3:03:34 PM
Subject: Re: [GPSL] GPSL Questions

Yeah, Now days there are more likely many chips that can do more. Thats for sure! But man in it;'s day, this was what 1992 or so? maybe as soon as 90?

I remember I lost the farm in 93 and it was a few years before that,

And fast wasn't the word for it. I was amazed that that clock ossc could turn on and off that fast! and maake cirp free CW too!

wb8elk@... wrote:
Hi Joe,
>
> Yes, that's a TLC555 timer. The bellows I sent you for this project was from an old VIZ radiosonde. The bellows in it's original form had over 150 contacts on it for each barometric pressure increment...I once designed a PROM circuit programmed to increment the morse code output to correspond with the bellows switch number....I flew it on one of Norm Kjome's zero pressure balloons from Univ of Wyoming and it corresponded to his data very well until after cutdown. I have quite a few Xilinx 17128 and 17256 chips (the big brother of the ones used for the monticellomicro ID....at this point I don't see the advantage of using them (and the 555 timer) compared to a low-cost microcontroller and no way to do A/D telemetry other than varying the code speed...but in it's day it was a cheap alternative. It wouldn't take too much effort to program in a CW message in these chips and I do have the programmer for them at work....I may put one together just
for! ! fun.
>
> I also remember tracking your Earth Breeze balloon as it traveled across the midwest and east coast.....boy, was it fast CW....sounded like a cricket as I recall.
>
>73s de Bill WB8ELK
>
>

>
>
>
>
>-----Original Message-----
>From: Joe <nss@...>
>To: GPSL@yahoogroups.com
>Sent: Wed, Jul 22, 2009 12:16 pm
>Subject: Re: [GPSL] GPSL Questions
>
>
>
>
>Mark Garrett wrote:
>
>Joe:
>>
>>You mean this Id'er from Monticellow Micro:
>>
>>http://www.monticellomicro.com/ider.html
>>
>>The Id'er is the smaller of the two boards.
>>From what I have been told Steve does not have the program to encode the chip however you can bug him if you like at the address at the bottom of the page. I would love to have a few more of these Id'ers as well so if he hears from others he may start looking into writing a new program or generating a new chip. Nice thing was these Id'ers only consumed 3 ma to operate.
>>
>>Mark Garrett, KA9SZX
>>
>>
>>I'm not too sure what is what, below is a closeup of the board.
>
>I see the clock ossc tranny, 1 diode, 2 disc caps and 3 transistors, then there are the two 8 legged chips,
>One with the label, and one that might say,,,555? might it be just a type of 555 timer?
>
>
>Joe
>
>
>>I told you this was OLD, we were still at the time of that flight caled WARBA.
>>The Wisconsin Amateur Radio Balloon Association. WARBA
>>Final payload design and layout was made by Steve WB9ZRE
>>The bellows I think came from Bill ELK? not too sure, way too long ago to remember now!
>>The transmitter was a 50 mw 20 meter OCC can type on 14.31818 as seen above. And if was fed directly into a full sized dipole that came out of the payload top and bottom.
>>
>>To the left of the "Transmitter" is the brain chip. It was made by someone that Mark KA9SZX knew, it was an awesome chip, I would love to get more of them.

>>
>>It had a CW message that was programmed into it. and by the value of the resistor on two pins determined the speed the CW was sent at! UTTER simplicity!!!
>>
>>We just tied that resistor baroswitch modded unit to this chip, and done perfect code.
>>
>>The message at sea level was agonizing slow, Like 1 WPM or so, the whole message took like 45 seconds to loop through! Slide it to the other end (dead short) and it was too fast to copy! but still sent good code. it sounded like amtor or some auto repeating digital signal, each loop was like 1/2 a second in duration or even less!
>>
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>>
>>

No virus found in this incoming message. Checked by AVG - www.avg.com Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00
>
>

Dell Deals: Treat yourself to a sweet deal on popular laptops!
>

No virus found in this incoming message. Checked by AVG - www.avg.com Version: 8.5.392 / Virus Database: 270.13.23/2254 - Release Date: 07/22/09 05:59:00

5760. Re: [GPSL] GFS data for GPSL 2009?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 02:45:49 UTC
From: Mark Conner
Topic: 5744 Message: 5760

GDAS should closely match the GFS initial conditions - GDAS is the
analysis scheme used to initialize the GFS.

You might also pull data for the NAM or EDAS and look for differences.
Mostly they'll show up in the boundary layer, not at altitude, and
the boundary layer winds have little effect on the track. GDAS is a
coarser grid, but has more observation data to work with.

- Mark

On Thu, Jul 23, 2009 at 01:13, <wb8elk@...> wrote:
>
>
> Hi Mark,
>
>   Which of the archived datasets most closely resembles the actual GFS data
> since there is no archived listing for the GFS model.
>
> - Bill
> _____________________________
> Dell Deals: Treat yourself to a sweet deal on popular laptops!
>
>

5761. Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 17:51:55 UTC
From: Joe
Topic: 5761 Message: 5761

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

5762. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 18:31:59 UTC
From: Keith Kaiser
Topic: 5761 Message: 5762

Hi Joe,

Near Space Ventures is in Kansas City, MO

On Jul 24, 2009, at 12:51 PM, Joe wrote:

> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
>
>

73's
Keith Kaiser
wa0tjt@...

5763. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 18:38:39 UTC
From: L. Paul Verhage
Topic: 5761 Message: 5763

NearSys
Right now, Topeka, Kansas.

But I get around.

Paul

On Fri, Jul 24, 2009 at 1:31 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Hi Joe,
> Near Space Ventures is in Kansas City, MO
>
> On Jul 24, 2009, at 12:51 PM, Joe wrote:
>
> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
>
>
> 73's
> Keith Kaiser
> wa0tjt@...
>
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>

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Onwards and Upwards,
Paul

5764. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 18:41:53 UTC
From: Mark Garrett
Topic: 5761 Message: 5764

Macomb, IL
Mark Garrett
KA9SZX

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Friday, July 24, 2009 12:51:55 PM
Subject: [GPSL] Off Topic, But...

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

5765. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 18:47:48 UTC
From: Bruce Coates
Topic: 5761 Message: 5765

Hi Joe

Saskatoon, Saskatchewan, Canada.

73, Bruce
VE5BNC
SABRE

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Sent: Friday, July 24, 2009 12:51 PM
Subject: [GPSL] Off Topic, But...

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

5766. RE: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 18:52:37 UTC
From: Patterson, David
Topic: 5761 Message: 5766

I used to be with Taylor University in Upland, IN (I was the Director of their High Altitude Research Platform team for ~3 years), but just graduated this May, and have relocated to Denver, CO - right next door to EOSS!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Joe
Sent: Fri 7/24/2009 1:51 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Off Topic, But...

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

5767. RE: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 19:17:01 UTC
From: Marty Griffin
Topic: 5761 Message: 5767

Hey David,

Be sure to look us up! We can keep your helium addiction going! Welcome!

Edge of Space Sciences (EOSS) is located in the Denver Colorado Front Range with members from Colorado Springs to Ft. Collins. AE0SS

- Marty Griffin WA0GEH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Patterson, David
Sent: Friday, July 24, 2009 12:53 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Off Topic, But...

I used to be with Taylor University in Upland, IN (I was the Director of their High Altitude Research Platform team for ~3 years), but just graduated this May, and have relocated to Denver, CO - right next door to EOSS!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Joe
Sent: Fri 7/24/2009 1:51 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Off Topic, But...

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

Yahoo! Groups Links

5768. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 20:39:48 UTC
From: BASE
Topic: 5761 Message: 5768

Joe,

BASE operates from DePauw University in Greencastle, IN.

Howard

--- On Fri, 7/24/09, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Off Topic, But...
To: GPSL@yahoogroups.com
Date: Friday, July 24, 2009, 1:51 PM

I am just curious as to where everyone is here on the list.

Of course we here at Near Space Sciences are in La Valle, Wisconsin.

Joe WB9SBD

5769. Re: Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 20:40:58 UTC
From: jjdemeyer
Topic: 5761 Message: 5769

Surfing Satellites is in Cleveland, Ohio.

Joe

--- In GPSL@yahoogroups.com, Marty Griffin <mgriffin@...> wrote:
>
> Hey David,
>
> Be sure to look us up! We can keep your helium addiction going! Welcome!
>
> Edge of Space Sciences (EOSS) is located in the Denver Colorado Front Range
> with members from Colorado Springs to Ft. Collins. AE0SS
>
> - Marty Griffin WA0GEH
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Patterson, David
> Sent: Friday, July 24, 2009 12:53 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Off Topic, But...
>
> I used to be with Taylor University in Upland, IN (I was the Director of
> their High Altitude Research Platform team for ~3 years), but just graduated
> this May, and have relocated to Denver, CO - right next door to EOSS!
>
> - David Patterson
> dvpatterson@...
> "If passion drives you,
> let reason hold the reins."
> ~Benjamin Franklin
>
> _____
>
> From: GPSL@yahoogroups.com on behalf of Joe
> Sent: Fri 7/24/2009 1:51 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Off Topic, But...
>
>
>
>
>
> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.

>
> Joe WB9SBD
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>
> Yahoo! Groups Links
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5770. Re: [GPSL] Re: Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 21:44:44 UTC
From: Zack Clobes
Topic: 5761 Message: 5770

Project: Traveler is in Hutchinson, KS

Zack Clobes, W0ZC

On Fri, Jul 24, 2009 at 3:40 PM, jjdemeyer <jjdemeyer@...> wrote:

>
>
> Surfing Satellites is in Cleveland, Ohio.
>
> Joe
>
>
> --- In GPSL@yahoogroups.com <GPSL%40yahoogroups.com>, Marty Griffin
> <mgriffin@...> wrote:
> >
> > Hey David,
> >
> > Be sure to look us up! We can keep your helium addiction going! Welcome!
> >
> > Edge of Space Sciences (EOSS) is located in the Denver Colorado Front
> Range
> > with members from Colorado Springs to Ft. Collins. AE0SS
> >
> > - Marty Griffin WA0GEH
> >
> > -----Original Message-----
> > From: GPSL@yahoogroups.com <GPSL%40yahoogroups.com> [mailto:
> GPSL@yahoogroups.com <GPSL%40yahoogroups.com>] On Behalf Of
> > Patterson, David
> > Sent: Friday, July 24, 2009 12:53 PM
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Subject: RE: [GPSL] Off Topic, But...
> >
> > I used to be with Taylor University in Upland, IN (I was the Director of
> > their High Altitude Research Platform team for ~3 years), but just
> graduated
> > this May, and have relocated to Denver, CO - right next door to EOSS!
> >
> > - David Patterson
> > dvpatterson@...
> > "If passion drives you,
> > let reason hold the reins."
> > ~Benjamin Franklin
> >
> > _____

> >
> > From: GPSL@yahoogroups.com <GPSL%40yahoogroups.com> on behalf of Joe
> > Sent: Fri 7/24/2009 1:51 PM
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Subject: [GPSL] Off Topic, But...
> >
> >
> >
> >
> > I am just curious as to where everyone is here on the list.
> >
> > Of course we here at Near Space Sciences are in La Valle, Wisconsin.
> >
> > Joe WB9SBD
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> > ------------------------------------
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> > Yahoo! Groups Links
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5771. Re: [GPSL] Re: Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 22:02:09 UTC
From: Ronald Cathcart
Topic: 5761 Message: 5771

Hi Joe,

Ron Cathcart
Haven't really got a group name that has stuck yet.
Battle Creek, Michigan

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Friday, July 24, 2009 5:44 PM
Subject: Re: [GPSL] Re: Off Topic, But...

Project: Traveler is in Hutchinson, KS

Zack Clobes, W0ZC

On Fri, Jul 24, 2009 at 3:40 PM, jjdemeyer <jjdemeyer@...> wrote:

Surfing Satellites is in Cleveland, Ohio.

Joe

--- In GPSL@yahoogroups.com, Marty Griffin <mgriffin@...> wrote:
>
> Hey David,
>
> Be sure to look us up! We can keep your helium addiction going! Welcome!
>
> Edge of Space Sciences (EOSS) is located in the Denver Colorado Front Range
> with members from Colorado Springs to Ft. Collins. AE0SS
>
> - Marty Griffin WA0GEH
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Patterson, David
> Sent: Friday, July 24, 2009 12:53 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Off Topic, But...
>
> I used to be with Taylor University in Upland, IN (I was the Director of
> their High Altitude Research Platform team for ~3 years), but just graduated
> this May, and have relocated to Denver, CO - right next door to EOSS!
>
> - David Patterson

> dvpatterson@...

> "If passion drives you,
> let reason hold the reins."
> ~Benjamin Franklin
>
> _____
>
> From: GPSL@yahoogroups.com on behalf of Joe
> Sent: Fri 7/24/2009 1:51 PM
> To: GPSL@...m
> Subject: [GPSL] Off Topic, But...
>
>
>
>
> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
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> ---
>
> Yahoo! Groups Links
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5772. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 23:07:18 UTC
From: Roger Hammond
Topic: 5761 Message: 5772

Hi Joe,

CNNSP
Grand Island, NE

Rog KC0MWM

Sent from my iPod

On Jul 24, 2009, at 12:51 PM, Joe <nss@...> wrote:

> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

5773. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-24 23:30:28 UTC
From: wb8elk@aol.com
Topic: 5761 Message: 5773

WB8ELK / High Altitude Research Corp is in Huntsville, AL

- Bill

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1222377105x1201454426/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115)

5774. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 00:58:47 UTC
From: Mike Manes
Topic: 5761 Message: 5774

Hi Joe,

See that "Yahoo! Groups Links" at the bottom of this message?
Click on it and log in. Then click on "Members" in LH column.
There are >>185<< of us there, listed by Yahoo username. Click on
each to learn more.

73 de Mike W5VSI

Joe wrote:
> I am just curious as to where everyone is here on the list.
>
> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5775. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 00:15:01 UTC
From: Harry M
Topic: 5761 Message: 5775

Lost in the Ozone, otherwise in Tulsa, Oklahoma. :)

73 Harry

Oklahoma Research Balloons
Harry Mueller - KC5TRB - Tulsa
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5776. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 00:52:34 UTC
From: Joe
Topic: 5761 Message: 5776

Good Point I forgot all about that

Mike Manes wrote:

>Hi Joe,
>
>See that "Yahoo! Groups Links" at the bottom of this message?
>Click on it and log in. Then click on "Members" in LH column.
>There are >>185<< of us there, listed by Yahoo username. Click on
>each to learn more.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>I am just curious as to where everyone is here on the list.
>>
>>Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>>
>>Joe WB9SBD
>>
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>>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
>
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>

5777. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 02:06:36 UTC
From: Mike Manes
Topic: 5761 Message: 5777

A lot of the members haven't included their names & QTHs on that list,
but I guess they have privacy concerns.

Joe wrote:
>
>
> Good Point I forgot all about that
>
> Mike Manes wrote:
>> Hi Joe,
>>
>> See that "Yahoo! Groups Links" at the bottom of this message?
>> Click on it and log in. Then click on "Members" in LH column.
>> There are >>185<< of us there, listed by Yahoo username. Click on
>> each to learn more.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> I am just curious as to where everyone is here on the list.
>>>
>>> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>>>
>>> Joe WB9SBD
>>>
>>>
>>> ------------------------------------
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>>> Yahoo! Groups Links
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>> --
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>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
>>
>>

>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5778. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 00:16:46 UTC
From: ccccrnr@aim.com
Topic: 5761 Message: 5778

Hazelwood, MO
member of NAREA in Bridgeton MO
rouge member of UTARC

Carlton Corbitt? KI4NHK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Sent: Fri, Jul 24, 2009 7:58 pm
Subject: Re: [GPSL] Off Topic, But...

Hi Joe,

See that "Yahoo! Groups Links" at the bottom of this message?
Click on it and log in. Then click on "Members" in LH column.
There are >>185<< of us there, listed by Yahoo username. Click on
each to learn more.

73 de Mike W5VSI

Joe wrote:
> I am just curious as to where everyone is here on the list.
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> Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>
> Joe WB9SBD
>
>
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> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5779. Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 02:36:14 UTC
From: Harry M
Topic: 5779 Message: 5779

FYI

Most of us at GPSL heard the NWTI audio beeper used as an aid in recovery. That was an automotive backup beeper from a local car parts store. I hacked one today and it has two basic components. A TC4069UBP hex inverter and one transistor. The transistor is labeled 468 7H 4. I have no idea what is is. There are a few resistors, a couple caps and a sealed coil (maybe a choke) about a 1/2" in diameter on the pcb. I did not take the time to draw the circuit. I shortened the case by 1" and sealed it back together. I have not noticed any change in volume or pitch so it seems that the case has nothing to do with the resonance.

If you are going to take one apart I suggest you cut around the circumference about halfway from front to rear and about an 1/8" behind a ridge at that point. When it comes apart in two you will have two wires running from the piezo half to the back half that has the pcb hot glued to the inside. A hair dryer will soften the glue on the pcb loosening it from the case. The power wires are glued at the rear and a small punch will loosen them for extraction along with the pcb. I put the pcb into the front half against the rear of the piezo. I cut off the back of the rear case half about 1/8" from the rear. I pulled the power wires through the original hole and glued the front and rear pices back together.

73 Harry

5780. Re: [GPSL] Off Topic, But...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 02:39:31 UTC
From: Joe
Topic: 5761 Message: 5780

I guess a cool list of groups would be an awesome file or list or whatever to have?

I know ralph has a list on his pages, does ralph or anyone know how up to date it is?

Mike Manes wrote:

>A lot of the members haven't included their names & QTHs on that list,
>but I guess they have privacy concerns.
>
>Joe wrote:
>
>
>>Good Point I forgot all about that
>>
>>Mike Manes wrote:
>>
>>
>>>Hi Joe,
>>>
>>>See that "Yahoo! Groups Links" at the bottom of this message?
>>>Click on it and log in. Then click on "Members" in LH column.
>>>There are >>185<< of us there, listed by Yahoo username. Click on
>>>each to learn more.
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>>>73 de Mike W5VSI
>>>
>>>Joe wrote:
>>>
>>>
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>>>>I am just curious as to where everyone is here on the list.
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>>>>Of course we here at Near Space Sciences are in La Valle, Wisconsin.
>>>>
>>>>Joe WB9SBD
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>>>>Yahoo! Groups Links
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>>>Checked by AVG - www.avg.com
>>>Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
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>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
>
>
>

5781. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 02:45:22 UTC
From: Joe
Topic: 5779 Message: 5781

I'll try to get the number of the one we use.

It is pretty low current, and is so loud, it's crazy! it actually comes with a warning not to use without hearing protection.

It is for an alarm in a high noise industrial enviroment where ambient noise is already above like 120 decibles.

We have had liftoff and have heard this thing up to ten minutes later!

On the ground chase teams have heard it more than a mile away.

Harry M wrote:

>
>
> FYI
>
> Most of us at GPSL heard the NWTI audio beeper used as an aid in
> recovery. That was an automotive backup beeper from a local car parts
> store. I hacked one today and it has two basic components. A TC4069UBP
> hex inverter and one transistor. The transistor is labeled 468 7H 4. I
> have no idea what is is. There are a few resistors, a couple caps and
> a sealed coil (maybe a choke) about a 1/2" in diameter on the pcb. I
> did not take the time to draw the circuit. I shortened the case by 1"
> and sealed it back together. I have not noticed any change in volume
> or pitch so it seems that the case has nothing to do with the resonance.
>
> If you are going to take one apart I suggest you cut around the
> circumference about halfway from front to rear and about an 1/8"
> behind a ridge at that point. When it comes apart in two you will have
> two wires running from the piezo half to the back half that has the
> pcb hot glued to the inside. A hair dryer will soften the glue on the
> pcb loosening it from the case. The power wires are glued at the rear
> and a small punch will loosen them for extraction along with the pcb.
> I put the pcb into the front half against the rear of the piezo. I cut
> off the back of the rear case half about 1/8" from the rear. I pulled
> the power wires through the original hole and glued the front and rear
> pices back together.
>
> 73 Harry
>
>
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>
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>----------
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>
>No virus found in this incoming message.
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>Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
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>
>

5782. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 23:04:07 UTC
From: Mike Manes
Topic: 5779 Message: 5782

I recall a tale of ARHAB yore where a payload with a Sonalert beeper landed in
in Amish farm field. The farmer's plow horse got so spooked by the noise
that the farmer hauled it off and stowed it in his barn. Fortunately, there
was also a DF beacon that led the trackers to a successful recovery.

Moral: the "R" in ARHAB stands for Radio.

73 de Mike W5VSI

Joe wrote:
>
>
> I'll try to get the number of the one we use.
>
> It is pretty low current, and is so loud, it's crazy! it actually comes
> with a warning not to use without hearing protection.
>
> It is for an alarm in a high noise industrial enviroment where ambient
> noise is already above like 120 decibles.
>
> We have had liftoff and have heard this thing up to ten minutes later!
>
> On the ground chase teams have heard it more than a mile away.
>
> Harry M wrote:
>> FYI
>>
>> Most of us at GPSL heard the NWTI audio beeper used as an aid in
>> recovery. That was an automotive backup beeper from a local car parts
>> store. I hacked one today and it has two basic components. A TC4069UBP
>> hex inverter and one transistor. The transistor is labeled 468 7H 4. I
>> have no idea what is is. There are a few resistors, a couple caps and
>> a sealed coil (maybe a choke) about a 1/2" in diameter on the pcb. I
>> did not take the time to draw the circuit. I shortened the case by 1"
>> and sealed it back together. I have not noticed any change in volume
>> or pitch so it seems that the case has nothing to do with the resonance.
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>> If you are going to take one apart I suggest you cut around the
>> circumference about halfway from front to rear and about an 1/8"
>> behind a ridge at that point. When it comes apart in two you will have
>> two wires running from the piezo half to the back half that has the
>> pcb hot glued to the inside. A hair dryer will soften the glue on the
>> pcb loosening it from the case. The power wires are glued at the rear
>> and a small punch will loosen them for extraction along with the pcb.
>> I put the pcb into the front half against the rear of the piezo. I cut
>> off the back of the rear case half about 1/8" from the rear. I pulled

>> the power wires through the original hole and glued the front and rear
>> pices back together.
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>> 73 Harry
>>
>> ---
>>
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>> Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5783. Digital Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:24:33 UTC
From: L. Paul Verhage
Topic: 5783 Message: 5783

I was looking over the video from my upward looking camera. By getting the time from launch to burst from the downward video camera, I realize the upward camera stopped just short of balloon burst. The memory card was only half full and temperatures were increasing at that time in the mission.

I wonder if the camera shut itself off at the shock of balloon burst. If so, why didn't the SD card contain the first moments of the burst?

Is it possible the image is written to RAM memory as it is recorded and then copied to the SD card in blocks. If so, then the camera may have been shut off before the image in RAM could be written. Does this make sense?
I'll try recording the face of a clock. Then I can experiment with shuttin off the camera normally and by shaking.

--
Onwards and Upwards,
Paul

5784. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:32:46 UTC
From: Joe
Topic: 5779 Message: 5784

That was one of ours.

It had a small Radio shack Beeper on it. Not the super LOUD version.

Thing is it was worse than this, Again B 4 the days of GPS units all
RDF for recoveries.

The payload was down and chase teams converging on the area from all
the beam headings. Then the signal just dissappeared! NO RF at all,
no beeper at all, Nothing to hunt after! we all thought something had
happened, but what?

We knew the area it should have been in to withinn say a square mile or
so, so kept driving around and periodically stopping to listen very
closely for a signal.

After about 2 hours we were going crazy, and were at this one intere
section looking for a signal when an Amish buggy was going by looking
funny at us, with our antennas and all. They passed right by, then
stopped, and a middle aged man jumped out and came back and asked us
what we were doing here. We told him and a smile came across his face.
He peobably had no idea we thought of what we were talking about, but
then he says I know where your shiny box is,, It is is my Uncles shed.
and said follow him.

5 min later we are going up a long dirt driveway heading obviously to an
amish farm and he opened the METAL shed door and there was out box.

anyenna laying on the ground, and inside this metal building.

He said he was out in the neighboring field whe this thing came
floating down from the sky making a horrible noise that scared his
horse nearly to crazynes, he understoon a 9 volt battery so un plugged
the beeper, and then took it to the shed for safe keeping, hence the
loss of signl, antenna on the ground and in a metal building.\
We thanked him and he wouldn't accvept a reward payment, but he did take
a nice picture we had from previous flight at altitude, He thought it
was beautiful and accepted that.

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>I recall a tale of ARHAB yore where a payload with a Sonalert beeper landed in
>in Amish farm field. The farmer's plow horse got so spooked by the noise
>that the farmer hauled it off and stowed it in his barn. Fortunately, there
>was also a DF beacon that led the trackers to a successful recovery.

>
>Moral: the "R" in ARHAB stands for Radio.
>
>73 de Mike W5VSI
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>Joe wrote:
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>
>>I'll try to get the number of the one we use.
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>>It is pretty low current, and is so loud, it's crazy! it actually comes
>>with a warning not to use without hearing protection.
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>>It is for an alarm in a high noise industrial enviroment where ambient
>>noise is already above like 120 decibles.
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>>We have had liftoff and have heard this thing up to ten minutes later!
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>>On the ground chase teams have heard it more than a mile away.
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>>>a sealed coil (maybe a choke) about a 1/2" in diameter on the pcb. I
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>>>or pitch so it seems that the case has nothing to do with the resonance.
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>>>73 Harry
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>>>Checked by AVG - www.avg.com
>>>Version: 8.5.392 / Virus Database: 270.13.28/2259 - Release Date: 07/24/09 18:24:00
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>Version: 8.5.392 / Virus Database: 270.13.29/2261 - Release Date: 07/25/09 05:58:00
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5785. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:42:28 UTC
From: Harry M
Topic: 5779 Message: 5785

Ok Mike, the backup alarm is an oscillator, just no antenna. It is radiating "some" rf, so does it not qualify then as the "R" in ARHAB? ;)

NahNah!

73 Harry

> Moral: the "R" in ARHAB stands for Radio.

5786. Re: [GPSL] Digital Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:45:34 UTC
From: Harry M
Topic: 5783 Message: 5786

FYI Paul...

My Aiptek still camera, for some reason, stored all the pics on the internal memory instead of the SD card. I have never had that happen.

(Did Murphy fly!)

73 Harry

> I was looking over the video from my upward looking camera...

5787. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 23:46:27 UTC
From: Mike Manes
Topic: 5779 Message: 5787

Hmmm ... OK. so the farmer also shut your DF beacon off? If he hadn't, you'd probably still heard a signal, since the door seams on metal sheds have large enough gaps to serve as slot antennas. They're not Lindgren EMC enclosures, but they will produce a good bit of attenuation.

Try it.

73 de Mike W5VSI

Joe wrote:
>
>
> That was one of ours.
>
> It had a small Radio shack Beeper on it. Not the super LOUD version.
>
> Thing is it was worse than this, Again B 4 the days of GPS units all
> RDF for recoveries.
>
> The payload was down and chase teams converging on the area from all
> the beam headings. Then the signal just dissappeared! NO RF at all,
> no beeper at all, Nothing to hunt after! we all thought something had
> happened, but what?
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> We knew the area it should have been in to withinn say a square mile or
> so, so kept driving around and periodically stopping to listen very
> closely for a signal.
>
> After about 2 hours we were going crazy, and were at this one intere
> section looking for a signal when an Amish buggy was going by looking
> funny at us, with our antennas and all. They passed right by, then
> stopped, and a middle aged man jumped out and came back and asked us
> what we were doing here. We told him and a smile came across his face.
> He peobably had no idea we thought of what we were talking about, but
> then he says I know where your shiny box is,, It is is my Uncles shed.
> and said follow him.
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> 5 min later we are going up a long dirt driveway heading obviously to an
> amish farm and he opened the METAL shed door and there was out box.
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> He said he was out in the neighboring field whe this thing came
> floating down from the sky making a horrible noise that scared his
> horse nearly to crazynes, he understoon a 9 volt battery so un plugged
> the beeper, and then took it to the shed for safe keeping, hence the

> loss of signl, antenna on the ground and in a metal building.\
> We thanked him and he wouldn't accvept a reward payment, but he did take
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> Joe WB9SBD
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> Mike Manes wrote:
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>> in Amish farm field. The farmer's plow horse got so spooked by the noise
>> that the farmer hauled it off and stowed it in his barn. Fortunately, there
>> was also a DF beacon that led the trackers to a successful recovery.
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>> Moral: the "R" in ARHAB stands for Radio.
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>> 73 de Mike W5VSI
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>>> with a warning not to use without hearing protection.
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>>> It is for an alarm in a high noise industrial enviroment where ambient
>>> noise is already above like 120 decibles.
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>>> We have had liftoff and have heard this thing up to ten minutes later!
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>>>> store. I hacked one today and it has two basic components. A TC4069UBP
>>>> hex inverter and one transistor. The transistor is labeled 468 7H 4. I
>>>> have no idea what is is. There are a few resistors, a couple caps and
>>>> a sealed coil (maybe a choke) about a 1/2" in diameter on the pcb. I
>>>> did not take the time to draw the circuit. I shortened the case by 1"
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>>>> or pitch so it seems that the case has nothing to do with the resonance.
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>>>> If you are going to take one apart I suggest you cut around the
>>>> circumference about halfway from front to rear and about an 1/8"
>>>> behind a ridge at that point. When it comes apart in two you will have
>>>> two wires running from the piezo half to the back half that has the

>>>> pcb hot glued to the inside. A hair dryer will soften the glue on the
>>>> pcb loosening it from the case. The power wires are glued at the rear
>>>> and a small punch will loosen them for extraction along with the pcb.
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>>>> pices back together.
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>>>> 73 Harry
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5788. Re: [GPSL] Digital Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:49:13 UTC
From: Bruce Coates
Topic: 5783 Message: 5788

Hi Paul

We had the same problem with one of our flights where the payload came down so hard it knocked the SD cards right out of the cameras. This caused the video file to be improperly closed. I had to use an SD file recovery utility to rebuild the video file. Even with this I wasn't able to recover the last seconds. I suspect that this is because the data is normally written to the SD cards in 512k blocks. If something happens during that process, I imagine that block would be lost or corrupted.

There was a thread from a few days ago discussing people's favourite SD recovery utilities.

73, Bruce
VE5BNC

----- Original Message -----
From: L. Paul Verhage
To: gpsl@yahoogroups.com
Sent: Saturday, July 25, 2009 5:24 PM
Subject: [GPSL] Digital Video Camera

I was looking over the video from my upward looking camera. By getting the time from launch to burst from the downward video camera, I realize the upward camera stopped just short of balloon burst. The memory card was only half full and temperatures were increasing at that time in the mission.

I wonder if the camera shut itself off at the shock of balloon burst. If so, why didn't the SD card contain the first moments of the burst?

Is it possible the image is written to RAM memory as it is recorded and then copied to the SD card in blocks. If so, then the camera may have been shut off before the image in RAM could be written. Does this make sense?

I'll try recording the face of a clock. Then I can experiment with shuttin off the camera normally and by shaking.

--
Onwards and Upwards,
Paul

5789. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 22:57:15 UTC
From: Harry M
Topic: 5779 Message: 5789

That'll work!!!

73 Harry

> Hmmm ... OK. so the farmer also shut your DF beacon off? If he hadn't,
> you'd
probably still heard a signal, since the door seams on metal sheds have
large
enough gaps to serve as slot antennas. They're not Lindgren EMC enclosures,
but they will produce a good bit of attenuation.

5790. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 23:38:36 UTC
From: Joe
Topic: 5779 Message: 5790

well the little wheel touching the ground in the metal shed, and from
the street no signal. hey thats ARHABing right?

Harry M wrote:

>That'll work!!!
>
>73 Harry
>
>
>
>
>> Hmmm ... OK. so the farmer also shut your DF beacon off? If he hadn't,
>>you'd
>>
>>
>probably still heard a signal, since the door seams on metal sheds have
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5791. Re: [GPSL] Backup Beeper Hack

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-25 23:40:01 UTC
From: Joe
Topic: 5779 Message: 5791

I was acvyually surprised, we did not hear a signal from the road, we
drove past that farm several times, and never heard a peep.

But it was still transmitting when we got it from him.

Mike Manes wrote:

>Hmmm ... OK. so the farmer also shut your DF beacon off? If he hadn't, you'd
>probably still heard a signal, since the door seams on metal sheds have large
>enough gaps to serve as slot antennas. They're not Lindgren EMC enclosures,
>but they will produce a good bit of attenuation.
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>Try it.
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>Joe wrote:
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>>Thing is it was worse than this, Again B 4 the days of GPS units all
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>>no beeper at all, Nothing to hunt after! we all thought something had
>>happened, but what?
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>>so, so kept driving around and periodically stopping to listen very
>>closely for a signal.
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>>section looking for a signal when an Amish buggy was going by looking
>>funny at us, with our antennas and all. They passed right by, then
>>stopped, and a middle aged man jumped out and came back and asked us
>>what we were doing here. We told him and a smile came across his face.
>>He peobably had no idea we thought of what we were talking about, but
>>then he says I know where your shiny box is,, It is is my Uncles shed.
>>and said follow him.
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>>amish farm and he opened the METAL shed door and there was out box.

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>>anyenna laying on the ground, and inside this metal building.
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>>floating down from the sky making a horrible noise that scared his
>>horse nearly to crazynes, he understoon a 9 volt battery so un plugged
>>the beeper, and then took it to the shed for safe keeping, hence the
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>>Joe WB9SBD
>>Near Space Sciences
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>>>in Amish farm field. The farmer's plow horse got so spooked by the noise
>>>that the farmer hauled it off and stowed it in his barn. Fortunately, there
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>>>Moral: the "R" in ARHAB stands for Radio.
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>>>>I'll try to get the number of the one we use.
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>>>>It is for an alarm in a high noise industrial enviroment where ambient
>>>>noise is already above like 120 decibles.
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>>>>We have had liftoff and have heard this thing up to ten minutes later!
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>>>>On the ground chase teams have heard it more than a mile away.
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>>>>Harry M wrote:
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>>>>>FYI
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>>>>>recovery. That was an automotive backup beeper from a local car parts
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>>>>>73 Harry
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5792. Solar Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:10:18 UTC
From: Keith Kaiser
Topic: 5792 Message: 5792

That was fun!

Deb and I were walking through one of those little neighborhood stores yesterday and we found a solar balloon. Packaged as "UFO Solar Balloon" 'Powered by the Sun!' we had to check it out, so a couple dollars later we found ourselves in it's position.

This morning we took it out of the box. It turns out to be not much more than a ten foot long tube made of a thin plastic like a garbage bag. The instructions say to tie off one end, fill it with air by running with it, then tie off and attache the provided line to the other end.

There was just enough breeze that I didn't have to run (yes!) to fill it, I tied it off and ..... well I can't exactly say it lifted off. It did float around the front yard a bit, sometimes as much as 20 maybe 30 feet off the ground. Mostly it laid on the grass or hovered about 3 inches above it and blew around in the light breeze.

We can see why the guys who launch these for high altitude use must have monster size balloons. This one about 10 feet long by 2 feet in diameter could not even lift the nylon line it was tied to. The sun was hot and the humidity not too bad (for Kansas City) both of which are factors in the lift you'll get. We're going to try throwing some tempra paint inside of it and give it another try on the next still warm morning. We'll keep you posted on our success.

It was fun! Of course the neighbors thought we had lost our minds.YMMV...LOL

73's
Keith Kaiser
wa0tjt@...

5793. Re: [GPSL] Solar Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:13:55 UTC
From: Joe
Topic: 5792 Message: 5793

I remember wind being a huge factor also, if there is a breeze it cools the balloon of quickly..

I wonder if too if you had it tied too tight not to be able to vent some so the gas can exppand and get less dense.

Joe

Keith Kaiser wrote:

>That was fun!
>
>Deb and I were walking through one of those little neighborhood stores
>yesterday and we found a solar balloon. Packaged as "UFO Solar
>Balloon" 'Powered by the Sun!' we had to check it out, so a couple
>dollars later we found ourselves in it's position.
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>more than a ten foot long tube made of a thin plastic like a garbage
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>running with it, then tie off and attache the provided line to the
>other end.
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>There was just enough breeze that I didn't have to run (yes!) to fill
>it, I tied it off and ..... well I can't exactly say it lifted off. It
>did float around the front yard a bit, sometimes as much as 20 maybe
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5794. Re: [GPSL] Solar Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:23:51 UTC
From: Keith Kaiser
Topic: 5792 Message: 5794

Was almost no wind to speak off, we also took it to the back where there was none at all. We didn't fill it tight with air, figuring that would not work either so we don't think but can't rule out these factors. At this point there are a few puncture holes in it too because of the grass and gravel in the street. LOL

On Jul 26, 2009, at 11:13 AM, Joe wrote:

> I remember wind being a huge factor also, if there is a breeze it
> cools the balloon of quickly..
>
> I wonder if too if you had it tied too tight not to be able to vent
> some so the gas can exppand and get less dense.
>
> Joe
>
> Keith Kaiser wrote:
>
>> That was fun!
>>
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>> stores
>> yesterday and we found a solar balloon. Packaged as "UFO Solar
>> Balloon" 'Powered by the Sun!' we had to check it out, so a couple
>> dollars later we found ourselves in it's position.
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>> This morning we took it out of the box. It turns out to be not much
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>> other end.
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73's
Keith Kaiser
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5795. ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:43:30 UTC
From: Michael Willett
Topic: 5744 Message: 5795

I have not talked to the person who found the payload yet, but I received a voice message on my phone last night that the payload was found just North of Redfield, KS.

This track took us right over the top of Garnett, along the same track as the majority of other balloons, which surprised me, since we no doubt had a strange ascent profile with the 'chute deployed and in tow. I will be calling them later today and making arrangements for shipping here, or I will pick it up in the next few weeks myself when headed for Michigan.

I am looking forward to seeing the payload!

--Michael Willett
K5NOT
ARBONET

5796. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:55:56 UTC
From: Caitlin Mantych
Topic: 5744 Message: 5796

That's very exciting! I'm so glad you got your payload back- best of luck with the quest for highest altitude!

Cait Mantych
Univ. of Minnesota
MN Space Grant Consortium

_____
From: Michael Willett <k5not@...>
To: GPSL@yahoogroups.com
Sent: Sunday, July 26, 2009 11:43:30 AM
Subject: [GPSL] ARBONET PAYLOAD FOUND!

I have not talked to the person who found the payload yet, but I received a voice message on my phone last night that the payload was found just North of Redfield, KS.

This track took us right over the top of Garnett, along the same track as the majority of other balloons, which surprised me, since we no doubt had a strange ascent profile with the 'chute deployed and in tow. I will be calling them later today and making arrangements for shipping here, or I will pick it up in the next few weeks myself when headed for Michigan.

I am looking forward to seeing the payload!

--Michael Willett
K5NOT
ARBONET

5797. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 16:55:00 UTC
From: Mark Conner
Topic: 5744 Message: 5797

Great news! The ultimate backup recovery method is an address and phone #
on the side of the payload. :)

73 de Mark N9XTN

On Sun, Jul 26, 2009 at 11:43, Michael Willett <k5not@...> wrote:

>
>
> I have not talked to the person who found the payload yet, but I
> received a voice message on my phone last night that the payload was found
> just North of Redfield, KS.
>
> This track took us right over the top of Garnett, along the same track as
> the majority of other balloons, which surprised me, since we no doubt had a
> strange ascent profile with the 'chute deployed and in tow. I will be
> calling them later today and making arrangements for shipping here, or I
> will pick it up in the next few weeks myself when headed for Michigan.
>
> I am looking forward to seeing the payload!
>
> --Michael Willett
> K5NOT
> ARBONET
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5798. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 17:20:18 UTC
From: Keith Kaiser
Topic: 5744 Message: 5798

Try and get the actual lat/long of where it landed. Would be
interesting to see on a map.

On Jul 26, 2009, at 11:43 AM, Michael Willett wrote:

>
> I have not talked to the person who found the payload yet, but I
> received a voice message on my phone last night that the payload was
> found just North of Redfield, KS.
>
> This track took us right over the top of Garnett, along the same
> track as the majority of other balloons, which surprised me, since
> we no doubt had a strange ascent profile with the 'chute deployed
> and in tow. I will be calling them later today and making
> arrangements for shipping here, or I will pick it up in the next few
> weeks myself when headed for Michigan.
>
> I am looking forward to seeing the payload!
>
> --Michael Willett
> K5NOT
> ARBONET
>
>
>
>
>

73's
Keith Kaiser
wa0tjt@...

5799. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 17:35:40 UTC
From: Michael Willett
Topic: 5744 Message: 5799

People in Kansas are Great!

I just called and talked to the people that found the payload, and they were just the nicest people you would want to talk to. Hoping it did not land on the hood of their new car, I had to ask where it landed... :) Whew! It landed in a cow pasture near their home. They are sending the payload via UPS to me on Monday, turns out they ship a lot of things and were happy to do so. I will get their address in the shipment and will post the more exact location data of the find when I get it. The payload enclosure was broken up, but they said most of the electronics and such were in tact and the parachute was there.

I agree with a previous posting - when all else fails, the telephone number and other information on the payload as a backup is a great thing to have on the payload!

--Michael
K5NOT
ARBONET

--- On Sun, 7/26/09, Michael Willett <k5not@...> wrote:

From: Michael Willett <k5not@...>
Subject: [GPSL] ARBONET PAYLOAD FOUND!
To: GPSL@yahoogroups.com
Date: Sunday, July 26, 2009, 4:43 PM

I have not talked to the person who found the payload yet, but I received a voice message on my phone last night that the payload was found just North of Redfield, KS.

This track took us right over the top of Garnett, along the same track as the majority of other balloons, which surprised me, since we no doubt had a strange ascent profile with the 'chute deployed and in tow. I will be calling them later today and making arrangements for shipping here, or I will pick it up in the next few weeks myself when headed for Michigan.

I am looking forward to seeing the payload!

--Michael Willett
K5NOT
ARBONET

5800. solar balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 19:22:20 UTC
From: kmcaviezel@yahoo.com
Topic: 5800 Message: 5800

I use a 24'/side black plastic solar tetrahedral balloon ('tetroon') for solar flights. The last flight was about 400 miles, and over 13 hours, floating between 50k feet and 55k feet. Payload was 5.5 pounds, including 1.5 pounds of jettisonable sand ballast.

Pros:
no helium expense
no helium bottle delivery/pickup hassles.
very cool slow ascent
stable float and damage-tolerant.

Cons:
Definitely more tricky to launch than a latex balloon
Altitude is limited by balloon skin melting.

Launch video of the last solar tetroon is on youtube, same usename 'kmcaviezel'

- Mark Caviezel ng0x, "ES-OS" Experimental Sub-Orbital Society, now in the eastern USA. Two #1 ARHAB records in eight flights. We specialize in zero pressure, heavy lift, and long endurance flights.

5801. Web Article

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-26 21:22:54 UTC
From: L. Paul Verhage
Topic: 5801 Message: 5801

I came across this article online. It's more of a reflection on the amateur science we all do.

http://www.popularmechanics.com/science/research/4321192.html

--
Onwards and Upwards,
Paul

5802. BLAST!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 01:54:15 UTC
From: Keith Kaiser
Topic: 5802 Message: 5802

After showing BLAST! at GPSL Daryl at EOSS asked if it would be possible to barrow the film to show to other EOSS members. I checked with the producers and they have agreed to allow us to show the film to other GPSL groups. They only request that I keep track of who/when and how many get to see it and feed this information back to them.

So if you are interested in borrowing this very interesting and relevant film let me know. I'll mail it out to you on a first showing basis. You can mail it back or I'll give you the address of the next in line.

Send me a note off-line to the GPSL list so that I can figure out who gets it when.

73's
Keith Kaiser
wa0tjt@...

5803. Re: [GPSL] BLAST!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 02:01:45 UTC
From: Joe
Topic: 5802 Message: 5803

What is Blast?

Keith Kaiser wrote:

>After showing BLAST! at GPSL Daryl at EOSS asked if it would be
>possible to barrow the film to show to other EOSS members. I checked
>with the producers and they have agreed to allow us to show the film
>to other GPSL groups. They only request that I keep track of who/when
>and how many get to see it and feed this information back to them.
>
>So if you are interested in borrowing this very interesting and
>relevant film let me know. I'll mail it out to you on a first showing
>basis. You can mail it back or I'll give you the address of the next
>in line.
>
>Send me a note off-line to the GPSL list so that I can figure out who
>gets it when.
>
>73's
>Keith Kaiser
>wa0tjt@...
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>Yahoo! Groups Links
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.31/2265 - Release Date: 07/26/09 17:59:00
>
>
>

5804. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 03:12:53 UTC
From: Mike Manes
Topic: 5744 Message: 5804

Well done, Michael & ARBONET!
73 de Mike W5VSI
CTO EOSS

Michael Willett wrote:
>
>
> People in Kansas are Great!
>
> I just called and talked to the people that found the payload, and they
> were just the nicest people you would want to talk to. Hoping it did not
> land on the hood of their new car, I had to ask where it landed... :)
> Whew! It landed in a cow pasture near their home. They are sending the
> payload via UPS to me on Monday, turns out they ship a lot of things and
> were happy to do so. I will get their address in the shipment and will
> post the more exact location data of the find when I get it. The payload
> enclosure was broken up, but they said most of the electronics and such
> were in tact and the parachute was there.
>
> I agree with a previous posting - when all else fails, the telephone
> number and other information on the payload as a backup is a great thing
> to have on the payload!
>
> --Michael
> K5NOT
> ARBONET
>
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>
> --- On *Sun, 7/26/09, Michael Willett /<k5not@...>/* wrote:
>
>
> From: Michael Willett <k5not@...>
> Subject: [GPSL] ARBONET PAYLOAD FOUND!
> To: GPSL@yahoogroups.com
> Date: Sunday, July 26, 2009, 4:43 PM
>
>
>
> I have not talked to the person who found the payload yet, but I
> received a voice message on my phone last night that the payload was
> found just North of Redfield, KS.
>
> This track took us right over the top of Garnett, along the same

> track as the majority of other balloons, which surprised me, since
> we no doubt had a strange ascent profile with the 'chute deployed
> and in tow. I will be calling them later today and making
> arrangements for shipping here, or I will pick it up in the next few
> weeks myself when headed for Michigan.
>
> I am looking forward to seeing the payload!
>
> --Michael Willett
> K5NOT
> ARBONET
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5805. Re: [GPSL] BLAST!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 02:48:57 UTC
From: Mark Conner
Topic: 5802 Message: 5805

http://www.blastthemovie.com/

Screened Thursday evening at GPSL 2009, courtesy *CQ VHF *and Joe Lynch N6CL.

73 de Mark N9XTN
www.nstar.org

On Sun, Jul 26, 2009 at 21:01, Joe <nss@...> wrote:

>
>
> What is Blast?
>
> Keith Kaiser wrote:
>
> After showing BLAST! at GPSL Daryl at EOSS asked if it would be
> possible to barrow the film to show to other EOSS members. I checked
> with the producers and they have agreed to allow us to show the film
> to other GPSL groups. They only request that I keep track of who/when
> and how many get to see it and feed this information back to them.
>
> So if you are interested in borrowing this very interesting and
> relevant film let me know. I'll mail it out to you on a first showing
> basis. You can mail it back or I'll give you the address of the next
> in line.
>
> Send me a note off-line to the GPSL list so that I can figure out who
> gets it when.
>
> 73's
> Keith Kaiserwa0tjt@...
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.31/2265 - Release Date: 07/26/09 17:59:00
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5806. RE: [Balloon_Sked] NE Illinois Balloon Tracks

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 14:53:25 UTC
From: BASE
Topic: 5806 Message: 5806

Dear Ken,

We, BASE at DePauw, use the 144.39 MHz APRS as part of our educational outreach. It is the simplest way to allow our school student partners to follow our flights via the Internet. Generally, we transmit every two minutes and use WIDE 2-1 with the MicroTrak 300. The APRS beacon would only be used for recovery if our primary 900 MHz spread spectrum telemetry system fails. If we could get the support of the amateur radio community like EOSS has developed in eastern Colorado, we would be willing to move to 144.34 MHz.

Please remember that the APRS usage tracks posted by Mr. Deffenbaugh include some stations that receive only one transmission from the balloon. On typical flights from west central Indiana, our transmitter hits stations in central Indiana with an occasional reception by a distant station. After 39 flights, we have never received any complaints of overusing the APRS Network.

We try to be good citizens in the amateur radio community.

Howard Brooks, KC9QBN
DePauw University, W9YJ

www.depauw.edu/acad/physics/base

--- On Mon, 7/27/09, ken.thompson@... <ken.thompson@cox.net> wrote:

From: ken.thompson@... <ken.thompson@...>
Subject: RE: [Balloon_Sked] NE Illinois Balloon Tracks
To: "Balloon_Sked" <Balloon_Sked@yahoogroups.com>
Cc: "TAPR APRS Mailing List" <aprssig@...>
Date: Monday, July 27, 2009, 9:48 AM

I think it would be better to say: "See the distruption this causes?"

Use NOPATH for balloons or put them on 144.34 and away from the aprs

network.

Not sure why anyone would want a balloon on 144.39, with all the traffic

interfering with tracking and recovery.

We retreived plenty of packages without any GPS data to guide us.

Ken, N0ITL

5807. Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 22:09:53 UTC
From: k6rpt
Topic: 5807 Message: 5807

I'm preparing for my first launch in CA. My payload is between 2-3 pounds carrying, APRS, camera and simplex repeater. My question is, what parachute should I use for this weight and where is a good place to purchase one.

5808. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 22:25:02 UTC
From: Roger Hammond
Topic: 5807 Message: 5808

You might give Spherachutes a try.

http://spherachutes.com/

You can use the chart for "rocket weight" on their website to determine the size of the chute.
They'll also sew an attachment point in the spill hole upon request for attaching the load line from your balloon.

Rog KC0MWM
CNNSP

On Mon, Jul 27, 2009 at 5:09 PM, k6rpt <Ron@...> wrote:

> I'm preparing for my first launch in CA. My payload is between 2-3 pounds
> carrying, APRS, camera and simplex repeater. My question is, what parachute
> should I use for this weight and where is a good place to purchase one.
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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5809. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 23:14:56 UTC
From: wb8elk@aol.com
Topic: 5807 Message: 5809

Hi Ron,

I also use Spherachutes......and as Roger mentioned, make sure you specify it's for balloons so they stitch the shroud line over the hole to attach the balloon to.

- Bill WB8ELK

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1221823322x1201398723/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115)

5810. Re: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 23:18:40 UTC
From: wb8elk@aol.com
Topic: 5744 Message: 5810

Congrats on the successful use of the "backup recovery system" that you penned onto the side of the payload.

I haven't finished modding Balloon Track to do an inverted parachute ascent, but my wild guess I emailed you a few days ago at least was the same latitude...I had that estimate about 18 miles due west of the actual touchdown. It'll be fascinating to see if I can model that flight with the ascent rate mod now that I know where it actually came down.

What size balloon were your using?

- Bill WB8ELK

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1221823322x1201398723/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115)

5811. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 23:34:01 UTC
From: Greg Williams
Topic: 5807 Message: 5811

3rd nod for Spherachutes.

Tell them your into high-altitude ballooning so they'll sew a line in the spill hole and you can attach the balloon to that. They're quite familiar with ARHAB requests and we apparently give them a lot of good business.

Greg

Greg Williams
gregwilliams@...
k4hsm@...

On Jul 27, 2009, at 6:09 PM, k6rpt wrote:

> I'm preparing for my first launch in CA. My payload is between 2-3
> pounds carrying, APRS, camera and simplex repeater. My question is,
> what parachute should I use for this weight and where is a good
> place to purchase one.
>

5812. RE: [GPSL] ARBONET PAYLOAD FOUND!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 23:35:52 UTC
From: Doug Loughmiller
Topic: 5744 Message: 5812

Thanks Bill,

Naturally, Michael and I are really pleased that the package was recovered. We were using a 1200 gram balloon and A severely tangled 60" parachute!

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Monday, July 27, 2009 6:19 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ARBONET PAYLOAD FOUND!

Congrats on the successful use of the "backup recovery system" that you penned onto the side of the payload.

I haven't finished modding Balloon Track to do an inverted parachute ascent, but my wild guess I emailed you a few days ago at least was the same latitude...I had that estimate about 18 miles due west of the actual touchdown. It'll be fascinating to see if I can model that flight with the ascent rate mod now that I know where it actually came down.

What size balloon were your using?

- Bill WB8ELK

A Good Credit Score is 700 or Above. See <http://pr.atwola.com/promoclk/100126575x1221823322x1201398723/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115> yours in just 2 easy steps!

5813. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-27 23:37:23 UTC
From: Harry M
Topic: 5807 Message: 5813

For 21 flights I have used a 36" Spherachute with a 3" hole in the top and had them sew in two crossed lines over the hole to attach the balloon line to. This has worked for me for up to 4 pound loads. It has been drug out of many trees and I have not seen it damaged at all.

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5814. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 02:33:04 UTC
From: Mike Manes
Topic: 5807 Message: 5814

Note that Spherachute sizes their 'chutes by the subtended arc rather
than by skirt diameter. EOSS has never used a 'chute smaller than
5 ft skirt diameter, which translates to a 96 inch Spherachute. A
larger 'chute will simply reduce your terminal descent rate, and will
work fine for up to 15 lb if future needs arise.
73 de Mike W5VSI
CTO EOSS

Roger Hammond wrote:
>
>
> You might give Spherachutes a try.
>
> http://spherachutes.com/
>
> You can use the chart for "rocket weight" on their website to determine
> the size of the chute.
> They'll also sew an attachment point in the spill hole upon request for
> attaching the load line from your balloon.
>
> Rog KC0MWM
> CNNSP
>
>
>
> On Mon, Jul 27, 2009 at 5:09 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> I'm preparing for my first launch in CA. My payload is between 2-3
> pounds carrying, APRS, camera and simplex repeater. My question is,
> what parachute should I use for this weight and where is a good
> place to purchase one.
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>

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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5815. Re: [GPSL] Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 03:31:16 UTC
From: Joe
Topic: 5807 Message: 5815

Near Space Sciences usually always make their own. Except for the
recent high school flight where we gace them the plans and they had the
sewing class make it.

Greg Williams wrote:

>
>
> 3rd nod for Spherachutes.
>
> Tell them your into high-altitude ballooning so they'll
> sew a line in the spill hole and you can attach the balloon to that. They're quite
familiar with ARHAB requests and we apparently give them a lot of good business.
>
> Greg
>
>
>
>
> Greg Williams
> gregwilliams@... <mailto:gregwilliams@...>
> k4hsm@... <mailto:k4hsm@...>
>
>
>
> On Jul 27, 2009, at 6:09 PM, k6rpt wrote:
>
>> I'm preparing for my first launch in CA. My payload is between 2-3
>> pounds carrying, APRS, camera and simplex repeater. My question is,
>> what parachute should I use for this weight and where is a good place
>> to purchase one.
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.32/2266 - Release Date: 07/27/09 05:58:00
>
>

>

5816. Re: Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 03:38:39 UTC
From: k7rkt
Topic: 5807 Message: 5816

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Near Space Sciences usually always make their own. Except for the
> recent high school flight where we gace them the plans and they had the
> sewing class make it.
>

I made a 4' diameter hemispherical parachute myself.

Once.

I'll never do *that* again.

They really aren't that expensive, all things considered....

-- Greg K7RKT

5817. Re: [GPSL] Re: Parachute Info.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 04:00:30 UTC
From: L. Paul Verhage
Topic: 5807 Message: 5817

I make my myself, except for the one I was donated by rocketry folks. That one was from Rocketman.

Paul

On Mon, Jul 27, 2009 at 10:38 PM, k7rkt <k7rkt@...> wrote:

> --- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
> >
> > Near Space Sciences usually always make their own. Except for the
> > recent high school flight where we gace them the plans and they had the
> > sewing class make it.
> >
>
> I made a 4' diameter hemispherical parachute myself.
>
> Once.
>
> I'll never do *that* again.
>
> They really aren't that expensive, all things considered....
>
> -- Greg K7RKT
>
>
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>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5818. Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 04:17:01 UTC
From: Mark Conner
Topic: 5818 Message: 5818

http://www.sparkfun.com/commerce/product_info.php?products_id=9171

The data sheet for the GPS module explicitly says the altitude/speed limits are implemented such that one or the other may be exceeded but not both. Power consumption 3.3V at 28 mA. I have not fully perused all the datasheets, but looks like it can do its own logging. It probably can be powered up and left to do its own logging on a flight to see if it really works >18 km. Price is $60.

Operational Limits Altitude < 18,000m*1 or
Velocity < 515m/s*1

*1: COCOM limit, either may be exceeded but not both

73 de Mark N9XTN

5819. Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 04:19:53 UTC
From: k7rkt
Topic: 5818 Message: 5819

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=9171
>

I have one of these. It doesn't log the altitude.

Greg K7RKT

5820. Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 04:29:34 UTC
From: k6rpt
Topic: 5820 Message: 5820

I've noticed a ring at the bottom of some parachutes. Is that to keep the parachute lines from twisting up as the payload turns? Should a swivel be used? How long should the line be from the bottom of the parachute to the payload? Thanks for all the help.

5821. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 04:33:45 UTC
From: L. Paul Verhage
Topic: 5820 Message: 5821

I use the ring to prevent some twisting, but primarily to prevent the sides of the airframe from being crushed or broken by snapping shroud lines. I make my shroud lines as long as the circumfernce of the canopy.

My book has a chapter on recovery systems. There's a line to it at nearsys.com, under Publications.

Paul

On Mon, Jul 27, 2009 at 11:29 PM, k6rpt <Ron@...> wrote:

> I've noticed a ring at the bottom of some parachutes. Is that to keep the
> parachute lines from twisting up as the payload turns? Should a swivel be
> used? How long should the line be from the bottom of the parachute to the
> payload? Thanks for all the help.
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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Onwards and Upwards,
Paul

5822. Taylor University CCLI Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 13:02:33 UTC
From: Jeff Dailey
Topic: 5822 Message: 5822

Taylor University will launch 12 balloons on july 29 at 4:00pm.

Universities from across the United States will attend a high-altitude balloon workshop at Taylor University on July 29 and 30.

Universities
Missouri University of Science & Technology, MO
Ohio State University, OH
Carthage College, WI
Norfolk State University, VA
Temple University, PA
University of Evansville, IN
Gannon University, PA
Messiah Collage, PA
Geneva Collage, PA
Trevecca Nazarene University, TN
Oklahoma Christian University, OK
Southern Wesleyan University, SC
Penn State University, PA
University of Pennsylvania, PA
University of Cinicinnati, OH
University of Minnesota, Morris, MN
Walla Walla Community Collage, WA
West Virginia University Institute of Tech, WV

The workshop is funded through a Course Curriculum and Lab Improvement (CCLI) Grant from the National Science Foundation (NSF). During the two-day event, professors from the visiting universities will learn of the program from Taylor personnel so they can implement one of their own on their home campuses. They will also build science experiments for launch on a high-altitude balloon.
The launch will occur between 4-5 p.m., Wednesday the 29th.

Flight#190 CCLI Team1 APRS 144.39 KB9ZNZ-1
Flight#191 CCLI Team2 APRS 144.39 KB9ZNZ-3
Fliht#192 CCLI Team3
Flight#193 CCLI Team4
Flight#194 CCLI Team5
Flight#195 CCLI Team6
Flight#196 CCLI Team7
Flight#197 CCLI Team8
Flight#198 CCLI Team9
Flight#199 CCLI Team10
Flight#200 CCLI Team11
Flight#201 CCLI Team12

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5823. GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 14:04:47 UTC
From: L. Paul Verhage
Topic: 5728 Message: 5823

We have an offer to demo a ZPB at GPSL 2010 by Aerostar. Who would be interested in hosting GPSL that is near Texas?

Do we want to see the demo as part of GPSL as a Saturday or Thursday event?

Is there an interest in visiting CSBF as a Thursday event?

--
Onwards and Upwards,
Paul

5824. Re: [GPSL] Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 14:16:37 UTC
From: Bruce Coates
Topic: 5818 Message: 5824

Hi Mark

I also saw this while sitting in our motel in Oklahoma after GPSL. I've ordered one and hope to have it in time for our next flight, SABRE-7.

73, Bruce
VE5BNC

----- Original Message -----
From: Mark Conner
To: GPSL list
Sent: Monday, July 27, 2009 11:17 PM
Subject: [GPSL] Possibled balloon-suitable GPS module at SparkFun

http://www.sparkfun.com/commerce/product_info.php?products_id=9171

The data sheet for the GPS module explicitly says the altitude/speed limits are implemented such that one or the other may be exceeded but not both. Power consumption 3.3V at 28 mA. I have not fully perused all the datasheets, but looks like it can do its own logging. It probably can be powered up and left to do its own logging on a flight to see if it really works >18 km. Price is $60.

Operational Limits Altitude < 18,000m*1 or
Velocity < 515m/s*1
*1: COCOM limit, either may be exceeded but not both

73 de Mark N9XTN

5825. Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 14:22:11 UTC
From: Mark Conner
Topic: 5818 Message: 5825

Bummer on that. Guess it'll have to be hooked to a transmitter or some
other logging device to verify correct function above 18km.

- Mark

On Mon, Jul 27, 2009 at 23:19, k7rkt <k7rkt@...> wrote:

> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
> >
> > http://www.sparkfun.com/commerce/product_info.php?products_id=9171
> >
>
> I have one of these. It doesn't log the altitude.
>
> Greg K7RKT
>
>

5826. RE: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 14:48:23 UTC
From: Patterson, David
Topic: 5818 Message: 5826

I own one of the receiver-only versions of these (http://www.sparkfun.com/commerce/product_info.php?products_id=9133), and, while I haven't yet had a chance to hook it to a balloon, the high-density position data (10Hz capable!) is very interesting... with the mag mount antenna (http://www.sparkfun.com/commerce/product_info.php?products_id=464), I achieved 3D DGPS from a cold start in about 20 seconds in the middle of my home. I'm looking forward to hearing how it performs at altitude!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Mark Conner
Sent: Tue 7/28/2009 10:22 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Bummer on that. Guess it'll have to be hooked to a transmitter or some other logging device to verify correct function above 18km.

- Mark

On Mon, Jul 27, 2009 at 23:19, k7rkt <k7rkt@... <mailto:k7rkt@bigredbee.com> > wrote:

--- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com> , Mark Conner <mconner1@...> wrote:
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=9171
<http://www.sparkfun.com/commerce/product_info.php?products_id=9171>
>

I have one of these. It doesn't log the altitude.

Greg K7RKT

5827. Re: [GPSL] RE: [Balloon_Sked] NE Illinois Balloon Tracks

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 18:29:34 UTC
From: Mike Manes
Topic: 5806 Message: 5827

Hi Howard,

It doesn't take many I-gate stations to cover a balloon flight fully, in EOSS's experience. And several of our "regulars" also participate on site with launch, tracking and recovery - they just tune their APRS stations to 144.34 before leaving home.

We do occupy 144.34 pretty heavily, however, since many of our flights have two balloons in flight simultaneously, and both are configured to digipeat each other as well as the beacons from the tracking teams. This provides a pretty nice picture of the entire flight - and the fact that the 1st balloon's landing site gets digi'ed by the 2nd balloon makes for a snappy recovery.

Our COA (waiver) with the FAA also >requires< that we provide up-to-date balloon positions via the internet, so it's important that we avoid having our beacons being "stepped on" by any of the multitude of APRS stations on .39.

Although avoidance of excessive traffic in both directions was a primary rationale for moving off .39, the foregoing has proven to provide plenty of added benefits as well. And it doesn't require extensive support by the larger ham community - just a few reliable stations. We typically get 3 to 5 I-gates lined up for every flight.

73 de Mike W5VSI
CTO EOSS

BASE wrote:
> If we could get the support of the amateur
> radio community like EOSS has developed in eastern Colorado, we would be
> willing to move to 144.34 MHz.
>
> We try to be good citizens in the amateur radio community.
>
> Howard Brooks, KC9QBN
> DePauw University, W9YJ
>
> www.depauw.edu/acad/physics/base
>
> --- On *Mon, 7/27/09, ken.thompson@... /<ken.thompson@...>/* wrote:
>
>
> From: ken.thompson@... <ken.thompson@...>
> Subject: RE: [Balloon_Sked] NE Illinois Balloon Tracks
> To: "Balloon_Sked" <Balloon_Sked@yahoogroups.com>
> Cc: "TAPR APRS Mailing List" <aprssig@...>

> Date: Monday, July 27, 2009, 9:48 AM
>
> I think it would be better to say: "See the distruption this causes?"
> Use NOPATH for balloons or put them on 144.34 and away from the aprs
> network.
> Not sure why anyone would want a balloon on 144.39, with all the
> traffic
> interfering with tracking and recovery.
> We retreived plenty of packages without any GPS data to guide us.
> Ken, N0ITL
>
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5828. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 19:21:17 UTC
From: Mike Manes
Topic: 5820 Message: 5828

That's a "spreader ring", and its purpose is to ensure rapid and reliable opening of the parachute canopy on initial descent. EOSS's are placed about 1/3 of the way up from the riser to the skirt, and have a diameter that's made to allow the shroud lines to take up tension without having to bend around the ring.

Ours are made from about 1/4 inch diameter wicker, but other folks have used embroidery hoops, if one can find one big enough. And I've been looking into bulk fiberglass and carbon fiber tubing that can be bent to the required radius without breaking - no luck so far, but 0.15 - 0.20" OD x 0.020-0.025" wall carbon fiber looks workable.

One caveat: adding a spreader ring does convey the risk of the parachute becoming "Rubik'ed" - where the canopy gets passed thru the shroud lines or the spreader ring due to mishandling. It can be a real quiz figuring out how to undo this damage, and I've even had to resort to complete disassembly of the shroud lines to "de_Rubik" a mishandled 'chute. We use bread ties to strap down the shroud lines one both sides of the ring and up to the canopy skirt to prevent this problem during transport and storage. A better scheme might be to provide a means to quickly detach and reattach the ring from the lines in the proper positions.

73 de Mike W5VSI
CTO EOSS

k6rpt wrote:
> I've noticed a ring at the bottom of some parachutes. Is that to keep the parachute lines from twisting up as the payload turns? Should a swivel be used? How long should
the line be from the bottom of the parachute to the payload? Thanks for all the help.
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5829. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 21:10:05 UTC
From: Joe
Topic: 5820 Message: 5829

Mike Manes wrote:

>That's a "spreader ring", and its purpose is to ensure rapid and reliable
>opening of the parachute canopy on initial descent.
>
{snip}

>
>Ours are made from about 1/4 inch diameter wicker, but other folks have used
>embroidery hoops, if one can find one big enough.
>
Check craft stores etc. That is also what we use here are embroidery
hoops. In the bigger craft stores we have seen them as large as 48" in
diameter!

>
>One caveat: adding a spreader ring does convey the risk of the parachute
>becoming "Rubik'ed" - where the canopy gets passed thru the shroud lines or
>the spreader ring due to mishandling. It can be a real quiz figuring out how
>to undo this damage, and I've even had to resort to complete disassembly of
>the shroud lines to "de_Rubik" a mishandled 'chute.
>
We have done this by accident also! too many times to remember, or i
should say I'd rather forget. It's is as described Rubik cube effect.
if you dont have the exact return path it to to get in the shape it is,
they you may as well cut them all and start over. That is what we
usually do. times it has been faster and a LOT less frustrating!

>We use bread ties to
>strap down the shroud lines one both sides of the ring and up to the canopy
>skirt to prevent this problem during transport and storage. A better scheme
>might be to provide a means to quickly detach and reattach the ring from the
>lines in the proper positions.
>
>
We have been doing the equivalent with a cable tie also,,

Joe WB9SBD
Near Space Sciences

>73 de Mike W5VSI
>CTO EOSS
>
>k6rpt wrote:
>
>

>>I've noticed a ring at the bottom of some parachutes. Is that to keep the parachute
>>
>>
>lines from twisting up as the payload turns? Should a swivel be used? How long
>should
>the line be from the bottom of the parachute to the payload? Thanks for all
>the help.
>
>
>>---
>>
>>
>>No virus found in this incoming message.
>>Checked by AVG - www.avg.com
>>Version: 8.5.392 / Virus Database: 270.13.34/2268 - Release Date: 07/28/09 06:00:00
>>
>>
>>

5830. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 21:21:17 UTC
From: L. Paul Verhage
Topic: 5820 Message: 5830

I use split rings at NearSys. Those are the rings used for key rings. The one inch diameter ones are plenty strong and impossible to accidentally open. It takes a lot of force to unwrap them enough to open and I've only seen it happen once in 74 flights.

Paul

On Tue, Jul 28, 2009 at 4:10 PM, Joe <nss@...> wrote:

>
>
>
>
> Mike Manes wrote:
>
> That's a "spreader ring", and its purpose is to ensure rapid and reliable
> opening of the parachute canopy on initial descent.
>
> {snip}
>
> Ours are made from about 1/4 inch diameter wicker, but other folks have used
> embroidery hoops, if one can find one big enough.
>
> Check craft stores etc. That is also what we use here are embroidery
> hoops. In the bigger craft stores we have seen them as large as 48" in
> diameter!
>
> One caveat: adding a spreader ring does convey the risk of the parachute
> becoming "Rubik'ed" - where the canopy gets passed thru the shroud lines or
> the spreader ring due to mishandling. It can be a real quiz figuring out how
> to undo this damage, and I've even had to resort to complete disassembly of
> the shroud lines to "de_Rubik" a mishandled 'chute.
>
> We have done this by accident also! too many times to remember, or i
> should say I'd rather forget. It's is as described Rubik cube effect. if
> you dont have the exact return path it to to get in the shape it is, they
> you may as well cut them all and start over. That is what we usually do.
> times it has been faster and a LOT less frustrating!
>
> We use bread ties to
> strap down the shroud lines one both sides of the ring and up to the canopy
> skirt to prevent this problem during transport and storage. A better scheme
> might be to provide a means to quickly detach and reattach the ring from the
> lines in the proper positions.
>
>
>

> We have been doing the equivalent with a cable tie also,,
>
> Joe WB9SBD
> Near Space Sciences
>
> 73 de Mike W5VSI
> CTO EOSS
>
> k6rpt wrote:
>
>
> I've noticed a ring at the bottom of some parachutes. Is that to keep the parachute
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> lines from twisting up as the payload turns? Should a swivel be used? How long
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> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.34/2268 - Release Date: 07/28/09 06:00:00
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Onwards and Upwards,
Paul

5831. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 21:36:08 UTC
From: Mark Conner
Topic: 5820 Message: 5831

We use a wire wreath ring for our spreader, about 12" in diameter. I don't know that the dimensions for the shroud lines relative to diameter of the chute are all that critical, other than avoiding extremes either way. My chute is roughly 5' in diameter and the shroud lines are about 8 feet from chute skirt to ring. This length was somewhat arbitrary - I had a bit over 8' of line available. I haven't had one foul yet due to the spreader ring not working. Actually, a pretty messed up chute can be functional 'enough'.

Avoid plastic rings due to brittleness in the cold. Wood embroidery hoops seem plenty strong.

73 de Mark N9XTN

On Mon, Jul 27, 2009 at 23:29, k6rpt <Ron@...> wrote:

> I've noticed a ring at the bottom of some parachutes. Is that to keep the
> parachute lines from twisting up as the payload turns? Should a swivel be
> used? How long should the line be from the bottom of the parachute to the
> payload? Thanks for all the help.
>
>

5832. Re: [GPSL] Ring at the bottom of some parachutes?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 22:41:45 UTC
From: Mike Manes
Topic: 5820 Message: 5832

Hi Joe,

The biggest embroidery hoop I could find at Hobby Lobby was about 12" D.
Our 10 ft 'chutes need 36" diameter rings.

Gonna keep looking for flexible carbon fiber, though. Should save some
weight and hold its circular form a bit better during ascent.

I forgot to mention that we stow the bread ties (actually green plastic wire
ties intended for agrarian use) on the spreader ring after laying out the
'chute at the launch site. This makes 'em available for the recovery crew to
use before the trip back home.

73 de Mike W5VSI

Joe wrote:
>
>
>
>
> Mike Manes wrote:
>> That's a "spreader ring", and its purpose is to ensure rapid and reliable
>> opening of the parachute canopy on initial descent.
> {snip}
>>
>> Ours are made from about 1/4 inch diameter wicker, but other folks have used
>> embroidery hoops, if one can find one big enough.
> Check craft stores etc. That is also what we use here are embroidery
> hoops. In the bigger craft stores we have seen them as large as 48" in
> diameter!
>>
>> One caveat: adding a spreader ring does convey the risk of the parachute
>> becoming "Rubik'ed" - where the canopy gets passed thru the shroud lines or
>> the spreader ring due to mishandling. It can be a real quiz figuring out how
>> to undo this damage, and I've even had to resort to complete disassembly of
>> the shroud lines to "de_Rubik" a mishandled 'chute.
> We have done this by accident also! too many times to remember, or i
> should say I'd rather forget. It's is as described Rubik cube effect.
> if you dont have the exact return path it to to get in the shape it is,
> they you may as well cut them all and start over. That is what we
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>> might be to provide a means to quickly detach and reattach the ring from the
>> lines in the proper positions.

>>
> We have been doing the equivalent with a cable tie also,,
>
> Joe WB9SBD
> Near Space Sciences
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> k6rpt wrote:
>>
>>> I've noticed a ring at the bottom of some parachutes. Is that to keep the parachute
>>>
>> lines from twisting up as the payload turns? Should a swivel be used? How long
>> should
>> the line be from the bottom of the parachute to the payload? Thanks for all
>> the help.
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>>>
>>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5833. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 23:09:19 UTC
From: Mike Manes
Topic: 5728 Message: 5833

I think seeing the production process at Aerostar would be very instructive, since they won't sell to us rank amateurs. It would also be instructive for the GPSL attendees to see how a big ZP is launched, but it may not be possible to schedule the kind of launch weather (calm winds, e.g., required to fill a plastic) to fit the GPSL agenda. Maybe the BLAST movie was as good as that can get, short of doing one yourself.
73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> We have an offer to demo a ZPB at GPSL 2010 by Aerostar. Who would be
> interested in hosting GPSL that is near Texas?
>
> Do we want to see the demo as part of GPSL as a Saturday or Thursday event?
>
> Is there an interest in visiting CSBF as a Thursday event?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5834. Opentracker NoFIX

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-28 22:36:40 UTC
From: Harry M
Topic: 5834 Message: 5834

At GPSL I flew an Opentracker 1 Rev3 for the first time. I flew the same GPS that I have always flown. I got a lot of "NoFIX" position reports.

I did some testing with the latest firmware on both the OT1 Rev3 and an OT1+ SMT. The OT1 is doing it again... a lot of NoFIX positions. The SMT sent every position and never had a NoFIX. I used VisualGPS to monitor the GPS and it does not lose a lock.

Has anyone had similar results?
I have posted my findings to the OT Group also.

73 Harry KC5TRB

5835. 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 01:07:37 UTC
From: k6rpt
Topic: 5835 Message: 5835

Thanks again for all the help. I've been reading all the posts on GPSL for almost a year now and have tracked some of your launches to get some experience in tracking. The recovery stories are always great. I think I will get the 48" chute and put in a 12" ring? My payload will be 3-3.5 lbs, I decided to add a second APRS to the payload (don't give Murphy an equal chance). Thanks Paul for the link to your book, very helpful! I'm putting together the payload box and I built in three ¼ wave 2m antennas pointed down at the bottom of the box, is that ok?

5836. Re: [GPSL] 48” chute and put in a 12” ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 02:20:22 UTC
From: L. Paul Verhage
Topic: 5835 Message: 5836

I like to keep my backup trackers in seperate modules with their own batteries, GPS, and antennas. The antennas are mounted on th side ofthe modules. I only see problems when we're directly beneath the antennas (in their null).

By down, do you mean your antennas are horizontal?

Paul

On Tue, Jul 28, 2009 at 8:07 PM, k6rpt <Ron@...> wrote:

> Thanks again for all the help. I've been reading all the posts on GPSL for
> almost a year now and have tracked some of your launches to get some
> experience in tracking. The recovery stories are always great. I think I
> will get the 48" chute and put in a 12" ring? My payload will be 3-3.5 lbs,
> I decided to add a second APRS to the payload (don't give Murphy an equal
> chance). Thanks Paul for the link to your book, very helpful! I'm putting
> together the payload box and I built in three ¼ wave 2m antennas pointed
> down at the bottom of the box, is that ok?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Onwards and Upwards,
Paul

5837. Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 02:52:25 UTC
From: k6rpt
Topic: 5835 Message: 5837

The antennas are vertical upside down ¼ wave.

-Ron K6RPT

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I like to keep my backup trackers in seperate modules with their own
> batteries, GPS, and antennas. The antennas are mounted on th side ofthe
> modules. I only see problems when we're directly beneath the antennas (in
> their null).
>
> By down, do you mean your antennas are horizontal?
>
> Paul
>
> On Tue, Jul 28, 2009 at 8:07 PM, k6rpt <Ron@...> wrote:
>
> > Thanks again for all the help. I've been reading all the posts on GPSL for
> > almost a year now and have tracked some of your launches to get some
> > experience in tracking. The recovery stories are always great. I think I
> > will get the 48" chute and put in a 12" ring? My payload will be 3-3.5 lbs,
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> > chance). Thanks Paul for the link to your book, very helpful! I'm putting
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> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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> >
> --
> Onwards and Upwards,
> Paul
>

5838. Re: [GPSL] Re: 48" chute and put in a 12" ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 03:02:27 UTC
From: Harry M
Topic: 5838 Message: 5838

Make sure you check the SWR on each antenna once they are mounted on the capsule.
This is VERY important and often overlooked!

73 Harry KC5TRB

5839. Re: [GPSL] 48” chute and put in a 12” ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 04:24:52 UTC
From: Mike Manes
Topic: 5835 Message: 5839

Hi Ron,

Is that 48 Spherachute inches or skirt diameter inches? Latter is more advisable. Any spreader ring is better than none, but I'd go bit bigger, depending on the answer to the previous question.

It's not necessary to fly a redundant APRS beacon - you just want something that will give you something to chase that lasts at least 24 hours and doesn't weigh a lot in batteries, in case your primary APRS beacon goes belly up. It should also generate a DF-able signal - like at least 15 sec of carrier every minute, not just a packet burst. You can DF a signal that's too weak to produce readable packet. And once the payload's on the deck, the signal gets REAL weak unless it's hung up high in a tree.

Not sure what you mean by "three ¼ wave 2m antennas pointed down at the bottom of the box". What's feeding them? Is this a phased array? Note that if one is transmtting while the other is receiving, the receiver won't hear squat since it will be desensed big time, if not flat fried, due to strong coupling amongst those close-in parallel antennas.

Better to build your backup beacon in an entirely separate housing with its own power source and antenna, and space it up or down the flight string at least 5 ft. from the primary beacon.

Mounting a 1/4 radiator directly on your payload housing can also create trouble unless you have a 1/2 wave diameter counterpoise between it and the rest of the guts in the beacon. Otherwise, xmtr counterpoise current will run back inside searching for a path to earth, taking the buttered-side-down path.

And if it's rigidly mounted, Murphy will see to it that it gets jammed into the ground on landing - and it doesn't make any difference which side you mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with a 1/4 wave hi-Zo matching section - lashed with plenty of slack in the copper to the payload line. A vertical dipole with feedpoint on the side of the box also works, but it's got a screwy pattern, and radiated RF still gets inside if the box isn't shielded.

73 de Mike W5VSI

k6rpt wrote:
> Thanks again for all the help. I've been reading all the posts on GPSL for almost a year now and have tracked some of your launches to get some experience in tracking. The recovery
stories are always great. I think I will get the 48" chute and put in a 12" ring?

My payload will be 3-3.5 lbs, I decided to add a second APRS to the payload (don't
give Murphy an equal chance). Thanks Paul for the link to your book, very helpful!

I'm putting together the payload box and I built in three ¼ wave 2m antennas pointed
down at the bottom of the box, is that ok?
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--
Mike Manes mrmanes@...m Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5840. Re: [GPSL] Re: 48" chute and put in a 12" ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 05:28:38 UTC
From: Mike Manes
Topic: 5838 Message: 5840

OF course, a 50-ohm resistor will show a GREAT VSWR, but that doesn't mean it radiates raddio waves. Harry's observation reflects my earlier observation that the proximity to the metal goodies in or on the enclosure will affect load impedance of the free-space dipole - which means those bits are absorbing and/or reflecting RF.

73 de Mike W5VSI

Harry M wrote:
>
>
> Make sure you check the SWR on each antenna once they are mounted on the
> capsule.
> This is VERY important and often overlooked!
>
> 73 Harry KC5TRB
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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5841. Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 05:49:19 UTC
From: k6rpt
Topic: 5835 Message: 5841

Yes it is a 48" Spherachute, how much bigger should the spreader ring be?

The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount connectors mounted 1" in from each end of the aluminum. I drilled a hole with the solder end out of the hole and I soldered a thin steel wire to it. That will be at the bottom of the box with the female SMA going through the bottom of the box. I have 1' SMA patch cables to connect through the foam box and the other end to each of the two independent APRS systems; each has APRS, GPS and battery. The RF output is 5 watts and will run for over 8 hrs, TX every 60 seconds. I thought it would be better to APRS position backup instead of DF. I understand APRS packets are to shot to DF.

Can I put foil inside the box for shielding? The foam box is 11"X9"X9" the kind used shipping frozen foods with interlocking top.

The simplex repeater is on 2m and I know it will be desensed as the packets go out. I have not setup the antenna for it yet.

The camera is a Cannon A560 and I set it up to take pictures every 15 seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.

I hope this better describes the payload.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> advisable. Any spreader ring is better than none, but I'd go bit bigger,
> depending on the answer to the previous question.
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> It's not necessary to fly a redundant APRS beacon - you just want something
> that will give you something to chase that lasts at least 24 hours and doesn't
> weigh a lot in batteries, in case your primary APRS beacon goes belly up. It
> should also generate a DF-able signal - like at least 15 sec of carrier every
> minute, not just a packet burst. You can DF a signal that's too weak to
> produce readable packet. And once the payload's on the deck, the signal
> gets REAL weak unless it's hung up high in a tree.
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> Not sure what you mean by "three ¼ wave 2m antennas pointed down at the bottom
> of the box". What's feeding them? Is this a phased array? Note that if one
> is transmtting while the other is receiving, the receiver won't hear squat
> since it will be desensed big time, if not flat fried, due to strong coupling
> amongst those close-in parallel antennas.
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> Better to build your backup beacon in an entirely separate housing with its

> own power source and antenna, and space it up or down the flight string at
> least 5 ft. from the primary beacon.
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> Mounting a 1/4 radiator directly on your payload housing can also create
> trouble unless you have a 1/2 wave diameter counterpoise between it and the
> rest of the guts in the beacon. Otherwise, xmtr counterpoise current will run
> back inside searching for a path to earth, taking the buttered-side-down path.
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> And if it's rigidly mounted, Murphy will see to it that it gets jammed into
> the ground on landing - and it doesn't make any difference which side you
> mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with a 1/4
> wave hi-Zo matching section - lashed with plenty of slack in the copper to the
> payload line. A vertical dipole with feedpoint on the side of the box also
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5842. Re: [GPSL] Re: 48” chute and put in a 12” ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 12:46:41 UTC
From: Joe
Topic: 5835 Message: 5842

Greetings,

What are you using for the APRS trannys?

5 watts is way overkill,

500 mw (1/2 watt) is more reasonable. we have been using 300 mw for
years.

Joe WB9SBD
Near Space Sciences

k6rpt wrote:

>Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
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>The simplex repeater is on 2m and I know it will be desensed as the packets go out. I have not setup the antenna for it yet.
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>The camera is a Cannon A560 and I set it up to take pictures every 15 seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
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>-Ron K6RPT
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>>least 5 ft. from the primary beacon.
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>No virus found in this incoming message.
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>Version: 8.5.392 / Virus Database: 270.13.35/2270 - Release Date: 07/29/09 06:12:00
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5843. Re: [GPSL] Re: 48" chute and put in a 12" ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 12:47:43 UTC
From: Joe
Topic: 5838 Message: 5843

Absolutely!

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>OF course, a 50-ohm resistor will show a GREAT VSWR, but that doesn't mean
>it radiates raddio waves. Harry's observation reflects my earlier observation
>that the proximity to the metal goodies in or on the enclosure will affect
>load impedance of the free-space dipole - which means those bits are absorbing
>and/or reflecting RF.
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5844. Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 15:35:44 UTC
From: Jerome Doerrie
Topic: 5844 Message: 5844

Welcome into the fun world of high altitude ham ballooning. Each group has their own suggestions. You will need to pick and choose what you think will work best for you. Reach For Space does flights in the upper Texas Panhandle and spills over into northwest Oklahoma and southwest Kansas. We have been flying since 1993. Our motto is "Have tailgate, will launch". During this time we have learned several lessons of what not to do.

If you use a quarter wave vertical, what will be the ground plane part of the antenna? The long rubber duck antennas provide as strong a signal as the 19" verticals and the duck antenna will flex when it hits something. As mentioned, a vertical tends to have a dead spot directly under it. I prefer to use coax dipoles. Peal off 19" of shild and let the coax dangle beneath the payload. RG 174 is very light weight and the diople does not have the dead spot under neath. RG 58 or 59 also work as well.

The addage "anything that can go wrong, will" seems to be all to true. Knots in string come untied. Now we double knot and cover each with hot glue. Everything twists, turns, spins, and dances around. Just in case your cut down does not work, be sure the lenth of string from balloon to parachute is long enough to let the remains of balloon fall below the parachute and not become tangled with the chute. Our last flight the chute did not deploy and payload tried to make a crater, Find Me Spot , while packed in 2" of foam, shifted and the control buttons became wedged under the case and turned off the unit. The 28.322 oscillator module was mounted in a socket, it left the socket! The aprs unit was working fine on the ground and died 10 minutes into the flight. Hint, always use fresh batteries. The camera person did turn on the camera, but failed to start the timer. We had Find Me Spopt and the camera in a package at the very bottom of our payload
string for the camera to have a clear view.

You have a lot of chute for a small payload weight. I suggest that the ring diameter be at least half of the chute dismeter. When you make your chutes, remember it helps to have a vent hole in the top!

When I have access to two aprs units, I like one to be on 144.390 and the other to be on 144.340. The 390 frequency is so busy it is difficult to get good copy of the balloon in the chase vechiles. The 340 works much better for direct reception. When the payload is back on the ground I have to request the mobile units turn off their beacons on 390. BTW, 1 watt will give you much longer hours of possible operation and do just as well as the 5 watts. Much of the flight time, your payload will have a tremendous line of sight and put a strong signal into the digipeaters.

We share with you in your excitment of a first flight. Best of luck. 73, Jerome Doerrie, K5IS Flight Director, Reach For Space.

5845. Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 16:11:35 UTC
From: k6rpt
Topic: 5835 Message: 5845

I'm using a Byonics MT8000FA, Garmin GPS 18 # 010-00321-56 and Li-Ion 18650 cells 11.1V 2200mAh Battery Pack. It will run for 8.5 hours, transmitting every 60 seconds at 5 watts. The Byonics MT8000FA has adjustable RF out.

The second system is BLGPS 2M HP http://www.bigredbee.com/blgps_2mhp.htm this one is being shipped today.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Greetings,
>
> What are you using for the APRS trannys?
>
> 5 watts is way overkill,
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> 500 mw (1/2 watt) is more reasonable. we have been using 300 mw for
> years.
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> k6rpt wrote:
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> >The camera is a Cannon A560 and I set it up to take pictures every 15 seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
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> >-Ron K6RPT
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> >--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
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> >>Not sure what you mean by "three ¼ wave 2m antennas pointed down at the bottom
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5846. Re: [GPSL] Re: 48” chute and put in a 12” ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 20:01:50 UTC
From: Mike Manes
Topic: 5835 Message: 5846

Hi Ron,

As I noted earlier, a Spherachute inch is measured around the circumference of the inflated canopy - or about 1.5 times the inflated skirt diameter at the shroud line attachments. So you effectively have just a 2.6 ft parachute, measured at the skirt diameter. This is pretty small, and way too small for a 12 lb payload. A 72" Spherachute would be the smallest that I'd recommend.

But since you've already got it, you'll just need a 8 inch diameter spreader ring.

Re your antenna configuration: apparently, you have two 19" whips spaced parallel to each other and only 8" apart. With your xmtrs running 5W, it's quite likely that you'll burn out the front end of receivers on the adjacent antenna. You could probably avoid this hazard by putting one of your APRS rigs on 70 cm with the other on 2m, picking a 70cm freq that avoids the 3rd harmonic of the 2m rig.

And 5W is way overkill for inflight APRS. We get full quieting signals 100 miles downrange using 300 mW xmtrs on the payload. So you might consider switching to low power. This may allow for more than 8 hrs of battery life - and note that if the batts die before you locate the landing site, your chances of recovery diminish sharply.

SMAs are pretty fragile connectors, and I doubt that a steel wire soldered to the center conductor pin would survive much disturbance, such as thrashing about during post-burst chaos (the Dreaded PBC!) and very unlikely even a gentle landing without breaking off - and that really hurts your ERP. BNCs are a lot stronger, but I still wouldn't trust just the strength of steel-wire solder joint with those either, since I've seen several fail in flight and during landing already. Things should be made as light as possible, except when they're exposed to the environment outside the payload housing.

If you put your two APRS antennas on opposite sides of the box, like top and bottom, then you'll have a fair chance of having one survive a landing, but there's no guarantee that the payload won't tumble during a parachute drag if it's windy. This will also go a long way towards isolating the receivers from the other xmtr.

The 10" Al antenna mounting plate is about half the length of a single 1/4 wave counterpoise for 2m. You could extend it laterally using some of that steel wire used for your whips.

And yes, ordinary kitchen Al foil works fine for a shield at 2m and up. But the seams must be bonded - any non-conducting seam over about 1/10 wavelength will let RF thru. Al or Cu tape with conductive adhesive works well, but it's expensive. And no shield will prevent common-mode RF current from passing

into the box on a wire running thru the shield. This is why recommend using a Hi-Z antenna (J-pole) or a full dipole - either of which will mitigate the common-mode counterpoise current flowing on the outside of the coax shield.

Now, your simplex repeater can serve as a great DF beacon, and could easily stand in as a backup beacon in lieu of of a 2nd power-hogging APRS. Provided, of course, that its antenna and battery survives thru recovery.

73 de Mike W5VSI
CTO EOSS

k6rpt wrote:
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5847. Re: [GPSL] Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 19:27:01 UTC
From: wb8elk@aol.com
Topic: 5835 Message: 5847

Hi Ron,

I'd crank that power output down to under 1 watt.... I typically run about 200 to 300 milliwatts with great results....any more than that is not necessary and will give you a lot more battery life in case you need that time to narrow down the landing zone.

I get over 20 hours on my APRS tracker at 200 milliwatts....you also have to consider that the capacity of that lithium pack will be a lot less when cold....I usually just cut my battery life estimate in half to be conservative to compensate for cold batteries.

Also, your capacity goes down with higher currents...they usually specify the Ah rating for a continuous current draing of 1/5 the rated capacity. The link below has a detailed datasheet of the performance of your battery under different loads and temperatures.

http://www.power-guide.com/pdf/ICR-18650.H.pdf

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jul 29, 2009 11:11 am
Subject: [GPSL] Re: 48☐ chute and put in a 12☐ ring?

I'm using a Byonics MT8000FA, Garmin GPS 18 # 010-00321-56 and Li-Ion 18650 cells 11.1V 2200mAh Battery Pack. It will run for 8.5 hours, transmitting every 60 seconds at 5 watts. The Byonics MT8000FA has adjustable RF out.

The second system is BLGPS 2M HP http://www.bigredbee.com/blgps_2mhp.htm this one is being shipped today.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Greetings,
>
> What are you using for the APRS trannys?
>

> 5 watts is way overkill,
>
> 500 mw (1/2 watt) is more reasonable. we have been using 300 mw for
> years.
>
> Joe WB9SBD
> Near Space Sciences

>
> k6rpt wrote:
>
> >Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
> >
> >The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount connectors mounted 1" in from each end of the aluminum. I drilled a hole with the solder end out of the hole and I soldered a thin steel wire to it. That will be at the bottom of the box with the female SMA going through the bottom of the box. I have 1' SMA patch cables to connect through the foam box and the other end to each of the two independent APRS systems; each has APRS, GPS and battery. The RF output is 5 watts and will run for over 8 hrs, TX every 60 seconds. I thought it would be better to APRS position backup instead of DF. I understand APRS packets are to shot to DF.
> >
> >Can I put foil inside the box for shielding? The foam box is 11"X9"X9" the kind used shipping frozen foods with interlocking top.
> >
> >The simplex repeater is on 2m and I know it will be desensed as the packets go out. I have not setup the antenna for it yet.
> >
> >The camera is a Cannon A560 and I set it up to take pictures every 15 seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
> >
> >I hope this better describes the payload.
> >
> >-Ron K6RPT
> >
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> >--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
> >
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> >>Hi Ron,
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> >>Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> >>advisable. Any spreader ring is better than none, but I'd go bit bigger,
> >>depending on the answer to the previous question.
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> >>It's not necessary to fly a redundant APRS beacon - you just want something
> >>that will give you something to chase that lasts at least 24 hours and doesn't
> >>weigh a lot in batteries, in case your primary APRS beacon goes belly up. It
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> >>minute, not just a packet burst. You can DF a signal that's too weak to
> >>produce readable packet. And once the payload's on the deck, the signal
> >>gets REAL weak unless it's hung up high in a tree.
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> >>Not sure what you mean by "three ¼ wave 2m antennas pointed down at the bottom
> >>of the box". What's feeding them? Is this a phased array? Note that if one
> >>is transmtting while the other is receiving, the receiver won't hear squat
> >>since it will be desensed big time, if not flat fried, due to strong coupling

> >>amongst those close-in parallel antennas.
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> >>Better to build your backup beacon in an entirely separate housing with its
> >>own power source and antenna, and space it up or down the flight string at
> >>least 5 ft. from the primary beacon.
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> >>Mounting a 1/4 radiator directly on your payload housing can
also create
> >>trouble unless you have a 1/2 wave diameter counterpoise between it and the
> >>rest of the guts in the beacon. Otherwise, xmtr counterpoise current will run
> >>back inside searching for a path to earth, taking the buttered-side-down path.
> >>
> >>And if it's rigidly mounted, Murphy will see to it that it gets jammed into
> >>the ground on landing - and it doesn't make any difference which side you
> >>mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with a 1/4
> >>wave hi-Zo matching section - lashed with plenty of slack in the copper to the
> >>payload line. A vertical dipole with feedpoint on the side of the box also
> >>works, but it's got a screwy pattern, and radiated RF still gets inside if the
> >>box isn't shielded.
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> >>73 de Mike W5VSI
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> >>>Thanks again for all the help. I've been reading all the posts on GPSL for almost a
year
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> >>>
> >>now and have tracked some of your launches to get some experience in tracking.
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> >>stories are always great. I think I will get the 48" chute and put in a 12"
> >>ring?
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> >>My payload will be 3-3.5 lbs, I decided to add a second APRS to the payload
> >>(don't
> >>give Murphy an equal chance). Thanks Paul for the link to your book, very
> >>helpful!
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> >Yahoo! Groups Links
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> >
> >No virus found in this incoming message.
> >Checked by AVG - www.avg.com
> >Version: 8.5.392 / Virus Database: 270.13.35/2270 - Release Date: 07/29/09 06:12:00
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5848. Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 21:19:36 UTC
From: k6rpt
Topic: 5835 Message: 5848

Mike, my payload will be 3-3.5 lbs and APRS is TX only, no RX. I can change the simplex repeater to 70cm to avoid the Rx from being desensed.

I'm using a Byonics MT8000FA, Garmin GPS 18 # 010-00321-56 and Li-Ion 18650 cells 11.1V 2200mAh Battery Pack. The Byonics MT8000FA has adjustable RF out.

The second system is BLGPS 2M HP http://www.bigredbee.com/blgps_2mhp.htm this one is being shipped today.

I like the RG 174 coax dipole idea. I can change to that configuration easily and avoid antenna damage on landing. I can change the first APRS to 1 watt and get longer battery life. The second APRS I will test the RF output when I receive it (about three days).

Thanks, Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> As I noted earlier, a Spherachute inch is measured around the circumference of
> the inflated canopy - or about 1.5 times the inflated skirt diameter at the
> shroud line attachments. So you effectively have just a 2.6 ft parachute,
> measured at the skirt diameter. This is pretty small, and way too small for
> a 12 lb payload. A 72" Spherachute would be the smallest that I'd recommend.
>
> But since you've already got it, you'll just need a 8 inch diameter spreader
> ring.
>
> Re your antenna configuration: apparently, you have two 19" whips spaced
> parallel to each other and only 8" apart. With your xmtrs running 5W,
> it's quite likely that you'll burn out the front end of receivers on the
> adjacent antenna. You could probably avoid this hazard by putting one
> of your APRS rigs on 70 cm with the other on 2m, picking a 70cm freq that
> avoids the 3rd harmonic of the 2m rig.
>
> And 5W is way overkill for inflight APRS. We get full quieting signals
> 100 miles downrange using 300 mW xmtrs on the payload. So you might
> consider switching to low power. This may allow for more than 8 hrs
> of battery life - and note that if the batts die before you locate the
> landing site, your chances of recovery diminish sharply.
>
> SMAs are pretty fragile connectors, and I doubt that a steel wire soldered
> to the center conductor pin would survive much disturbance, such as thrashing
> about during post-burst chaos (the Dreaded PBC!) and very unlikely even a
> gentle landing without breaking off - and that really hurts your ERP. BNCs
> are a lot stronger, but I still wouldn't trust just the strength of steel-wire

> solder joint with those either, since I've seen several fail in flight and
> during landing already. Things should be made as light as possible, except
> when they're exposed to the environment outside the payload housing.
>
> If you put your two APRS antennas on opposite sides of the box, like top
> and bottom, then you'll have a fair chance of having one survive a landing,
> but there's no guarantee that the payload won't tumble during a parachute
> drag if it's windy. This will also go a long way towards isolating the
> receivers from the other xmtr.
>
> The 10" Al antenna mounting plate is about half the length of a single
> 1/4 wave counterpoise for 2m. You could extend it laterally using some of
> that steel wire used for your whips.
>
> And yes, ordinary kitchen Al foil works fine for a shield at 2m and up. But
> the seams must be bonded - any non-conducting seam over about 1/10 wavelength
> will let RF thru. Al or Cu tape with conductive adhesive works well, but it's
> expensive. And no shield will prevent common-mode RF current from passing
> into the box on a wire running thru the shield. This is why recommend using
> a Hi-Z antenna (J-pole) or a full dipole - either of which will mitigate the
> common-mode counterpoise current flowing on the outside of the coax shield.
>
> Now, your simplex repeater can serve as a great DF beacon, and could easily
> stand in as a backup beacon in lieu of of a 2nd power-hogging APRS. Provided,
> of course, that its antenna and battery survives thru recovery.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> k6rpt wrote:
> > Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
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> > The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount
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5849. Re: [GPSL] Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 21:42:13 UTC
From: Joe
Topic: 5844 Message: 5849

Jerome Doerrie wrote:

>As mentioned, a vertical tends to have a dead spot directly under it. I prefer to use coax dipoles. Peal off 19" of shild and let the coax dangle beneath the payload. RG 174 is very light weight and the diople does not have the dead spot under neath. RG 58 or 59 also work as well.
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I am trying to imagine the layout of this antenna, so that it does not
have the dead spot below the payload....

>
>

5850. Re: [GPSL] Re: 48☐ chute and put in a 12☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 19:08:35 UTC
From: wb8elk@aol.com
Topic: 5835 Message: 5850

Hi Ron,

I also concur that it's a good idea to have your backup APRS beacon as a separate payload with separate batteries. I'm a big fan of redundant trackers....in fact I like to have 3 GPS trackers on each flight. I usually fly 2 APRS trackers and a 2m beacon or multimode transmitter on a clear channel. You'll find that the FindMeSpot is a good 3rd backup unit (7 ounces of insurance) as it will tell you where it has landed without having to be near a digipeater since it uses the GlobalStar satellite network...this has saved me a couple of times....it's $150 plus $99 a year subscription.

As far as a vertical ground plane....keep in mind that since its on the bottom of your payload, it will take the impact force of landing.....the weak point of such an antenna is where the wire element is soldered into the center pin of the coax connector....so reinforce that weak point before flight. The J-pole is a good way to go, but you might want to stiffen it up with a dowel rod to keep it from folding up when it lands....it also runs the risk of being yanked out of the payload where the coax connector attaches so put some strain relief at that point. I've had good success with a vertical dipole (center fed) with the elements made out of #22 wire taped or heatshrinked to a wooden dowel rod....about 20" for each wire will get you close. Just make sure not to attach the vertical dipole near large metal surfaces or objects in your payload....also if I understa
nd your vertical antenna construction correctly, you may have an impedance problem since the best match is to have the ground elements at a 45 degree angle to the radiator....the radiosonde folks basically have a 1/4 wire soldered to their PC board pointing straight down...they use #14 insulated solid conductor wire for that part....then for the ground plane they have two wide thin metal plates which point up at a 45 degree angle on each side.

I see from QRZ that you are in San Jose?...keep in mind that the Summer wind patterns could potentially kick you out to sea very easily....you might consider going into the central valley to fly...I've flown out of that area a few times and have landed near Tracy and Modesto a number of times.

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@MySystem.com>
To: GPSL@yahoogroups.com
Sent: Wed, Jul 29, 2009 12:49 am
Subject: [GPSL] Re: 48☐ chute and put in a 12☐ ring?

Yes it is a 48" Spherachute, how much bigger should the spreader ring be?

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nd battery. The RF output is 5 watts and will run for over 8 hrs, TX every 60 seconds. I thought it would be better to APRS position backup instead of DF. I understand APRS packets are to shot to DF.

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-Ron K6RPT

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5851. Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 21:48:01 UTC
From: k6rpt
Topic: 5844 Message: 5851

I like the RG 174 coax dipole idea. I can change to that configuration easily and avoid antenna damage on landing.

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> > have the dead spot below the payload....
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5852. Re: [GPSL] Re: 48” chute and put in a 12” ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 23:56:47 UTC
From: Mike Manes
Topic: 5835 Message: 5852

Hi Ron,

OK, I thought you might be using a separate HT for a radio. But if you operate on 144.39 MHz, you'll be transmitting "in the blind" without knowing if another signal is already there. And 144.39 is a pretty busy freq! So you might consider moving down to 144.34 or .36, as some other ARHAB groups have done. The downside is that you can't exploit the free infrastructure of digipeaters and I-gates, but that's not tough to overcome if you can line up a few I-gate stations to get you into findu.com or aprs.fi.

Some of the Byonics generators have exhibited low temperature problems, so I'd recommend cold soaking them (powered down) in a zero F (-16C) food freezer to see if they still run when that cold. Not familiar with the Big Red Bee, tho.

Thanks for reminding me of the coax "bazooka" antenna. I've built a couple of those using RG-174 and RG-58, but never got VSWR under 2:1 except with VERY tedious tweaks to the spacing between the folded-back 1/4 wave shield and the sheath. But they can mitigate the counterpoise current issue.
Be sure to strap the antenna radiating elements to a payload line under tension to keep it vertical during descent; otherwise, it'll fly up and lash around, most likely shattering the chilled PVC sheath and possibly breaking the whole shebang off.

It's a good idea to keep your Li-ion cells close to heat-generating parts in the payload. We've encountered Li-ion shutdown during descent - the worst possible phase - but they came up fine after warming up on the deck. Li-ions get puny below -20C, and I try to keep ours above -15C. Your polystyrene enclosure ought to keep everything above -10C during a typical 2.5 hour daytime flight to 100K', however.

Good luck on your first flight, and happy landings!

73 de Mike W5VSI

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>> 100 miles downrange using 300 mW xmtrs on the payload. So you might
>> consider switching to low power. This may allow for more than 8 hrs
>> of battery life - and note that if the batts die before you locate the
>> landing site, your chances of recovery diminish sharply.
>>
>> SMAs are pretty fragile connectors, and I doubt that a steel wire soldered
>> to the center conductor pin would survive much disturbance, such as thrashing
>> about during post-burst chaos (the Dreaded PBC!) and very unlikely even a
>> gentle landing without breaking off - and that really hurts your ERP. BNCs
>> are a lot stronger, but I still wouldn't trust just the strength of steel-wire
>> solder joint with those either, since I've seen several fail in flight and
>> during landing already. Things should be made as light as possible, except
>> when they're exposed to the environment outside the payload housing.
>>
>> If you put your two APRS antennas on opposite sides of the box, like top
>> and bottom, then you'll have a fair chance of having one survive a landing,
>> but there's no guarantee that the payload won't tumble during a parachute
>> drag if it's windy. This will also go a long way towards isolating the
>> receivers from the other xmtr.
>>
>> The 10" Al antenna mounting plate is about half the length of a single
>> 1/4 wave counterpoise for 2m. You could extend it laterally using some of
>> that steel wire used for your whips.

>>
>> And yes, ordinary kitchen Al foil works fine for a shield at 2m and up. But
>> the seams must be bonded - any non-conducting seam over about 1/10 wavelength
>> will let RF thru. Al or Cu tape with conductive adhesive works well, but it's
>> expensive. And no shield will prevent common-mode RF current from passing
>> into the box on a wire running thru the shield. This is why recommend using
>> a Hi-Z antenna (J-pole) or a full dipole - either of which will mitigate the
>> common-mode counterpoise current flowing on the outside of the coax shield.
>>
>> Now, your simplex repeater can serve as a great DF beacon, and could easily
>> stand in as a backup beacon in lieu of of a 2nd power-hogging APRS. Provided,
>> of course, that its antenna and battery survives thru recovery.
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> k6rpt wrote:
>>> Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
>>>
>>> The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount
>> connectors mounted 1" in from each end of the aluminum. I drilled a hole
>> with the solder end out of the hole and I soldered a thin steel wire to it.
>> That will be at the bottom of the box with the female SMA going through the
>> bottom of the box. I have 1' SMA patch cables to connect through the foam box
>> and the other end to each of the two independent APRS systems; each has APRS,
>> GPS and battery. The RF output is 5 watts and will run for over 8 hrs, TX
>> every 60 seconds. I thought it would be better to APRS position backup instead
>> of DF. I understand APRS packets are to short to DF.
>>> Can I put foil inside the box for shielding? The foam box is 11"X9"X9" the
>> kind used shipping frozen foods with interlocking top.
>>> The simplex repeater is on 2m and I know it will be desensed as the packets
>> go out. I have not setup the antenna for it yet.
>>> The camera is a Cannon A560 and I set it up to take pictures every 15 seconds.
>> When I tested it, it lasted for 5hrs and took about 1200 pictures.
>>> I hope this better describes the payload.
>>>
>>> -Ron K6RPT
>>>
>>>
>>> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
>>>> Hi Ron,
>>>>
>>>> Is that 48 Spherachute inches or skirt diameter inches? Latter is more
>>>> advisable. Any spreader ring is better than none, but I'd go bit bigger,
>>>> depending on the answer to the previous question.
>>>>
>>>> It's not necessary to fly a redundant APRS beacon - you just want something
>>>> that will give you something to chase that lasts at least 24 hours and doesn't
>>>> weigh a lot in batteries, in case your primary APRS beacon goes belly up. It
>>>> should also generate a DF-able signal - like at least 15 sec of carrier every

>>>> minute, not just a packet burst. You can DF a signal that's too weak to
>>>> produce readable packet. And once the payload's on the deck, the signal
>>>> gets REAL weak unless it's hung up high in a tree.
>>>>
>>>> Not sure what you mean by "three ¼ wave 2m antennas pointed down at the bottom
>>>> of the box". What's feeding them? Is this a phased array? Note that if one
>>>> is transmtting while the other is receiving, the receiver won't hear squat
>>>> since it will be desensed big time, if not flat fried, due to strong coupling
>>>> amongst those close-in parallel antennas.
>>>>
>>>> Better to build your backup beacon in an entirely separate housing with its
>>>> own power source and antenna, and space it up or down the flight string at
>>>> least 5 ft. from the primary beacon.
>>>>
>>>> Mounting a 1/4 radiator directly on your payload housing can also create
>>>> trouble unless you have a 1/2 wave diameter counterpoise between it and the
>>>> rest of the guts in the beacon. Otherwise, xmtr counterpoise current will run
>>>> back inside searching for a path to earth, taking the buttered-side-down path.
>>>>
>>>> And if it's rigidly mounted, Murphy will see to it that it gets jammed into
>>>> the ground on landing - and it doesn't make any difference which side you
>>>> mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with a 1/4
>>>> wave hi-Zo matching section - lashed with plenty of slack in the copper to the
>>>> payload line. A vertical dipole with feedpoint on the side of the box also
>>>> works, but it's got a screwy pattern, and radiated RF still gets inside if the
>>>> box isn't shielded.
>>>>
>>>> 73 de Mike W5VSI
>>>>
>>>>
>>>> k6rpt wrote:
>>>>> Thanks again for all the help. I've been reading all the posts on GPSL for almost a
year
>>>> now and have tracked some of your launches to get some experience in tracking.
>>>> The recovery
>>>> stories are always great. I think I will get the 48" chute and put in a 12"
>>>> ring?
>>>>
>>>> My payload will be 3-3.5 lbs, I decided to add a second APRS to the payload
>>>> (don't
>>>> give Murphy an equal chance). Thanks Paul for the link to your book, very
>>>> helpful!
>>>>
>>>> I'm putting together the payload box and I built in three ¼ wave 2m antennas
>>>> pointed
>>>> down at the bottom of the box, is that ok?
>>>> --
>>>> Mike Manes mrmanes@ Tel: 303-979-4899
>>>> "Things should be made as simple as possible, but not more so."
>>>> A. Einstein

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>>> ------------------------------------
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>>> Yahoo! Groups Links
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
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> Yahoo! Groups Links
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5853. Re: [GPSL] Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 00:00:36 UTC
From: Mike Manes
Topic: 5844 Message: 5853

Its tough to build an omni that doesn't have a null somewhere. But you can ameliorate some of that problem by not exacerbating the null with a separate one on your mobile vertical when directly under the balloon. If you have a mag mount on your mobile, just clamp the antenna to the side of the car with the radiator horizontal. It works, but you have to be careful passing!

73 de Mike W5VSI

Joe wrote:
>
> Jerome Doerrie wrote:
>
>> As mentioned, a vertical tends to have a dead spot directly under it. I prefer to use coax dipoles. Peal off 19" of shild and let the coax dangle beneath the payload. RG 174 is very light weight and the diople does not have the dead spot under neath. RG 58 or 59 also work as well.
>>
>>
> I am trying to imagine the layout of this antenna, so that it does not
> have the dead spot below the payload....
>
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> ------------------------------------
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5854. Re: [GPSL] Opentracker NoFIX

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 23:07:01 UTC
From: Harry M
Topic: 5834 Message: 5854

It seems there is a problem with the newer firmware on the OT1. Going back to firmware 53969 fixes the problem.

Harry KC5TRB

5855. Re: [GPSL] Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-29 23:55:18 UTC
From: Joe
Topic: 5844 Message: 5855

agreed,

But i was still wondering about that antenna he is talkinga about that
does not have the null pointing down.

Mike Manes wrote:

>Its tough to build an omni that doesn't have a null somewhere. But you can
>ameliorate some of that problem by not exacerbating the null with a separate
>one on your mobile vertical when directly under the balloon. If you have
>a mag mount on your mobile, just clamp the antenna to the side of the car
>with the radiator horizontal. It works, but you have to be careful passing!
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>Jerome Doerrie wrote:
>>
>>
>>
>>>As mentioned, a vertical tends to have a dead spot directly under it. I prefer to use
coax dipoles. Peal off 19" of shild and let the coax dangle beneath the payload. RG 174 is
very light weight and the diople does not have the dead spot under neath. RG 58 or 59 also
work as well.
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>>I am trying to imagine the layout of this antenna, so that it does not
>>have the dead spot below the payload....
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>>Yahoo! Groups Links
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.35/2271 - Release Date: 07/29/09 18:07:00
>
>
>

5856. Re: [GPSL] Re: 48□ chute and put in a 12□ r ing?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 02:21:49 UTC
From: Mike Manes
Topic: 5835 Message: 5856

Thanks, Bill
I'd not seen a Li-ion V vs T vs t at constant current like that
before. Spooky what happens at -20C! I think that's the electrolyte
losing ion mobility - like molasses in January!
73 de Mike W5VSI

wb8elk@aol.com wrote:
>
>
> Hi Ron,
>
> I'd crank that power output down to under 1 watt.... I typically run
> about 200 to 300 milliwatts with great results....any more than that is
> not necessary and will give you a lot more battery life in case you need
> that time to narrow down the landing zone.
>
> I get over 20 hours on my APRS tracker at 200 milliwatts....you also
> have to consider that the capacity of that lithium pack will be a lot
> less when cold....I usually just cut my battery life estimate in half to
> be conservative to compensate for cold batteries.
>
> Also, your capacity goes down with higher currents...they usually
> specify the Ah rating for a continuous current draing of 1/5 the rated
> capacity. The link below has a detailed datasheet of the performance of
> your battery under different loads and temperatures.
>
> http://www.power-guide.com/pdf/ICR-18650.H.pdf
>
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: k6rpt <Ron@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Jul 29, 2009 11:11 am
> Subject: [GPSL] Re: 48□ chute and put in a 12□ ring?
>
>
>
> I'm using a Byonics MT8000F A, Garmin GPS 18 # 010-00321-56 and Li-Ion
> 18650 cells 11.1V 2200mAh Battery Pack. It will run for 8.5 hours,
> transmitting every 60 seconds at 5 watts. The Byonics MT8000FA has
> adjustable RF out.
>
> The second system is BLGPS 2M HP http://www.bigredbee.com/blgps_2mhp.htm

> <http://www.bigredbee.com/blgps_2mhp.htm> this one is being shipped today.
>
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Joe
> <nss@...> wrote:
> >
> > Greetings,
> >
> > What are you using for the APRS trannys?
> >
> > 5 watts is way overkill,
> >
> > 500 mw (1/2 watt) is more reasonable. we have been using 300 mw for
> > years.
> >
> > Joe WB9SBD
> > Near Space Sciences
> >
> > k6rpt wrote:
> >
> > >Yes it is a 48" Spherachute, how much bigger should the spreader
> ring be?
> > >
> > >The antenna setup is a 2" X 10" peace of aluminum with SMA panel
> mount connectors mounted 1" in from each end of the aluminum. I drilled
> a hole with the solder end out of the hole and I soldered a thin steel
> wire to it. That will be at the bottom of the box with the female SMA
> going through the bottom of the box. I have 1' SMA patch cables to
> connect through the foam box and the other end to each of the two
> independent APRS systems; each has APRS, GPS and battery. The RF output
> is 5 watts and will run for over 8 hrs, TX every 60 seconds. I though t
> it would be better to APRS position backup instead of DF. I understand
> APRS packets are to shot to DF.
> > >
> > >Can I put foil inside the box for shielding? The foam box is
> 11"X9"X9" the kind used shipping frozen foods with interlocking top.
> > >
> > >The simplex repeater is on 2m and I know it will be desensed as the
> packets go out. I have not setup the antenna for it yet.
> > >
> > >The camera is a Cannon A560 and I set it up to take pictures every
> 15 seconds. When I tested it, it lasted for 5hrs and took about 1200
> pictures.
> > >
> > >I hope this better describes the payload.
> > >
> > >-Ron K6RPT

> > >
> > >
> > >--- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Mike
> Manes <mrmanes@> wrote:
> > >
> > >
> > >>Hi Ron,
> > >>
> > >>Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> > >>advisable. Any spreader ring is better than none, but I'd go bit
> bigger,
> > >>depending on the answer to the previous question.
> > >>
> > >>It's not necessary to fly a redundant APRS beacon - you just want
> something
> > >>that will give you something to chase that lasts at least 24 hours
> and doesn't
> > >>weigh a lot in batteries, in case your primary APRS beacon goes
> belly up. It
> > >>should also generate a DF-able signal - like at least 15 sec of
> carrier every
> > >>minute, not just a packet burst. You can DF a signal that's too
> weak to
> > >>produce readable packet. And once the payload's on the deck, the signal
> > >>gets REAL weak unless it's hung up high in a tree.
> > >>
> > >>Not sure what you mean by "three ¼ wave 2m antennas pointed down at
> the bottom
> > >>of the box". What's feeding them? Is this a phased array? Note that
> if one
> > >>is transmtting while the other is receiving, the receiver won't
> hear squat
> > >>since it will be desensed big time, if not flat fried, due to
> strong coupling
> > >>amongst those close-in parallel antennas.
> > >>
> > >>Better to build your backup beacon in an entirely separate housing
> with its
> > >>own power source and antenna, and space it up or down the flight
> string at
> > >>least 5 ft. from the primary beacon.
> > >>
> > >>Mounting a 1/4 radiator directly on your payload housing can also
> create
> > >>trouble unless you have a 1/2 wave diameter counterpoise between it
> and the
> > >>rest of the guts in the beacon. Otherwise, xmtr counterpoise
> current will run
> > >>back inside searching for a path to earth, taking the

> buttered-side-down path.
> > >>
> > >>And if it's rigidly mounted, Murphy will see to it that it gets
> jammed into
> > >>the ground on landing - and it doesn't make any d ifference which
> side you
> > >>mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed
> with a 1/4
> > >>wave hi-Zo matching section - lashed with plenty of slack in the
> copper to the
> > >>payload line. A vertical dipole with feedpoint on the side of the
> box also
> > >>works, but it's got a screwy pattern, and radiated RF still gets
> inside if the
> > >>box isn't shielded.
> > >>
> > >>73 de Mike W5VSI
> > >>
> > >>
> > >>k6rpt wrote:
> > >>
> > >>
> > >>>Thanks again for all the help. I've been reading all the posts on
> GPSL for almost a year
> > >>>
> > >>>
> > >>now and have tracked some of your launches to get some experience
> in tracking.
> > >>The recovery
> > >>stories are always great. I think I will get the 48" chute and put
> in a 12"
> > >>ring?
> > >>
> > >>My payload will be 3-3.5 lbs, I decided to add a second APRS to the
> payload
> > >>(don't
> > >>give Murphy an equal chance). Thanks Paul for the link to your
> book, very
> > >>helpful!
> > >>
> > >>I'm putting together the payload box and I built in three ¼ wave 2m
> antennas
> > >>pointed
> > >>down at the bottom of the box, is that ok?
> > >>
> > >>
> > >>--
> > >>Mike Manes mrmanes@ Tel: 30 3-979-4899
> > >>"Things should be made as simple as possible, but not more so."

> > >>A. Einstein
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> > >Yahoo! Groups Links
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> > >
> > >No virus found in this incoming message.
> > >Checked by AVG - www.avg.com <http://www.avg.com/>
> > >Version: 8.5.392 / Virus Database: 270.13.35/2270 - Release Date:
> 07/29/09 06:12:00
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> ---
> Hot Deals at Dell on Popular Laptops perfect for Back to School
> <http://pr.atwola.com/promoclk/100126575x1223106546x1201717234/aol?redir=http:%2F%2Faltfarm.mediaplex.com%2Fad%2Fck%2F12309%2D81939%2D1629%2D8>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5857. Re: [GPSL] Re: K6RPT 48" chute, etc.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 02:31:54 UTC
From: Mike Manes
Topic: 5844 Message: 5857

Well, there IS a pattern null off the end of any straight wire radiator,
whether it's a monopole or dipole. This assumes free space, of course, and
as we've all learned, space ain't free - not even near space. But it can
be cheap if yer careful :=}.

If you want to avoid having a null under the payload, then make your radiator
horizontal. Of course, then you'll get spin fading.

As I mentioned earlier, tipping your ground antenna helps a lot. And when
you're under the payload, your range is minimum - like 20 miles or less -
so space attenuation is at a minimum.

73 de Mike W5VSI

k6rpt wrote:
> I like the RG 174 coax dipole idea. I can change to that configuration easily
and avoid antenna damage on landing.
>
> --- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>>
>>
>> Jerome Doerrie wrote:
>>
>>> As mentioned, a vertical tends to have a dead spot directly under it.
I prefer to use coax dipoles. Peal off 19" of shild and let the coax dangle
beneath the payload. RG 174 is very light weight and the diople does not
have the dead spot under neath. RG 58 or 59 also work as well.
>>>
>>>
>> I am trying to imagine the layout of this antenna, so that it does not
>> have the dead spot below the payload....
>>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5858. Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 05:50:53 UTC
From: k6rpt
Topic: 5858 Message: 5858

I will order a 48" Spherachute and have them sew in two crossed lines over the hole to attach the balloon line to and I will add an 8" spreader ring. According to Spherachute chart 3.4 lbs is the lower weight limit for this size chute.

It sounds like vertical antennas have a null off the tip and I would think the null would be a very large area at high altitude. The coaxial dipole could wrap around the payload on the descent, and also having a null.

I would like to ask what kind of antennas are some of the group using and how are they are attached to the payload.

Thanks again for taking the time to share the learning experiences from your flights. I'm hoping to have a successful first flight.

Ron K6RPT

5859. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 14:02:52 UTC
From: L. Paul Verhage
Topic: 5858 Message: 5859

There's so much movement in near space that the null will only sweep over
you for a moment. I don't think it's an issue unless you are using a rubber
ducky antenna inside a car.

Paul

On Thu, Jul 30, 2009 at 12:50 AM, k6rpt <Ron@...> wrote:

> I will order a 48" Spherachute and have them sew in two crossed lines over
> the hole to attach the balloon line to and I will add an 8" spreader ring.
> According to Spherachute chart 3.4 lbs is the lower weight limit for this
> size chute.
>
> It sounds like vertical antennas have a null off the tip and I would think
> the null would be a very large area at high altitude. The coaxial dipole
> could wrap around the payload on the descent, and also having a null.
>
> I would like to ask what kind of antennas are some of the group using and
> how are they are attached to the payload.
>
> Thanks again for taking the time to share the learning experiences from
> your flights. I'm hoping to have a successful first flight.
>
> Ron K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5860. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 14:31:10 UTC
From: Joe
Topic: 5858 Message: 5860

Very true, and as I stated before, if you were to have a null anywhere
in your radiation pattern,, directly underneath is where it should be
for that is the path that has the lowest pathloss anyway.

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

>
>
> There's so much movement in near space that the null will only sweep
> over you for a moment. I don't think it's an issue unless you are
> using a rubber ducky antenna inside a car.
>
> Paul
>
> On Thu, Jul 30, 2009 at 12:50 AM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> I will order a 48" Spherachute and have them sew in two crossed
> lines over the hole to attach the balloon line to and I will add
> an 8" spreader ring. According to Spherachute chart 3.4 lbs is the
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> would think the null would be a very large area at high altitude.
> The coaxial dipole could wrap around the payload on the descent,
> and also having a null.
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> I would like to ask what kind of antennas are some of the group
> using and how are they are attached to the payload.
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> Thanks again for taking the time to share the learning experiences
> from your flights. I'm hoping to have a successful first flight.
>
> Ron K6RPT
>
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.36/2272 - Release Date: 07/30/09 05:58:00
>
>
>

5861. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 14:58:13 UTC
From: Bruce Coates
Topic: 5858 Message: 5861

Hi Ron

for the first 3 flights of SABRE we used a vertical antenna in the payload lid with a ground plane integrated into the lid. Although this worked fairly well, it got beat up quite badly on landing. Starting with flight 4 we started using two vertical antennas dangling under the payload with a single counterpoise running across the bottom of the payload and out the side. The radiation pattern is pretty odd, sort of like bent a torus on a 45 degree angle. The radiators we use are made from guitar string. The larger string are wound with bronze and are quite easy to solder. These are light, flexible and just about indestructible. Since my wife plays the guitar, I have a great supply.

As Paul mentioned there will be nulls in the radiation patterns of any antenna and the movement of the payload will make it impossible to predict exactly where they will point. In out experience, the bigger problem is the null on your receiving antenna. A mag mount 5/8 antenna on your roof will work well at a distance, but it will work very poorly when you're under the payload. A 1/4 wave mag mount is a good compromise. In some situations, I've found my hand held whip held at an angle works better than the car antenna when you're almost directly below the payload.

Our experience has shown:
- We have never been able to detect the null on the payload antenna due to its movement.
- We have noticed the null on the receiving antennas on our cars.
- We only run 300 or 500 mW to power but have always had good signal reports at over 150km.

Good Luck.

Bruce - VE5BNC
http://ve5aa.dyndns.org/balloon/balloon.html

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Wednesday, July 29, 2009 11:50 PM
Subject: [GPSL] Antennas

I will order a 48" Spherachute and have them sew in two crossed lines over the hole to attach the balloon line to and I will add an 8" spreader ring. According to Spherachute chart 3.4 lbs is the lower weight limit for this size chute.

It sounds like vertical antennas have a null off the tip and I would think the null would be a very large area at high altitude. The coaxial dipole could wrap around the payload on the descent, and also having a null.

I would like to ask what kind of antennas are some of the group using and how are they are attached to the payload.

Thanks again for taking the time to share the learning experiences from your flights. I'm hoping to have a successful first flight.

Ron K6RPT

5862. UK space programme suffers serious se tback • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 21:01:58 UTC
From: Mike Manes
Topic: 5862 Message: 5862

Huh. They shoulda sent that chesse to Joe if they wanted it back.

Note that they packed the GPS inside a foil-shielded foam box,
but the chess was on a plate cantelevered off the side!

http://www.theregister.co.uk/2009/07/29/space_cheese/

Check the link to the BBC footage near the bottom for video.

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5863. Re: [GPSL] UK space programme suffers serious setback • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 20:32:16 UTC
From: kd0cfe@yahoo.com
Topic: 5862 Message: 5863

They have found the cheese! This is a historic day in British aviation!

http://www.theregister.co.uk/2009/07/30/space_cheddar_recovered/
Sent from my BlackBerry

-----Original Message-----
From: Mike Manes <mrmanes@gmail.com>

Date: Thu, 30 Jul 2009 14:01:58
To: GPSL Balloon Reflector<GPSL@yahoogroups.com>; EOSS T&R
Reflector<EOSS_Trackers@yahoogroups.com>; Joe Mayenshein WB9SBD<nss@mwt.net>
Subject: [GPSL] UK space programme suffers serious se
tback • The Register

Huh. They shoulda sent that chesse to Joe if they wanted it back.

Note that they packed the GPS inside a foil-shielded foam box,
but the chess was on a plate cantelevered off the side!

http://www.theregister.co.uk/2009/07/29/space_cheese/

Check the link to the BBC footage near the bottom for video.

73 de Mike W5VSI
--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

5864. Re: UK space programme suffers seri ous setback • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 20:42:24 UTC
From: Joe
Topic: 5862 Message: 5864
Attachments: 1 described; binary payloads are missing from this source WARC

I can't belive they thought it would stay on the plate!!??

http://news.bbc.co.uk/2/hi/uk_news/england/wiltshire/8171619.stm

Mike Manes wrote:

> Huh. They shoulda sent that chesse to Joe if they wanted it back.
>
> Note that they packed the GPS inside a foil-shielded foam box,
> but the chess was on a plate cantelevered off the side!
>
> http://www.theregister.co.uk/2009/07/29/space_cheese/
>
> Check the link to the BBC footage near the bottom for video.
>
> 73 de Mike W5VSI
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.392 / Virus Database: 270.13.36/2272 - Release Date: 07/30/09 05:58:00
>
>
>

5865. Re: [EOSS] [Fwd: [Balloon_Sked] August 1st retirement]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 15:24:41 UTC
From: Mike Manes
Topic: 5865 Message: 5865

Looking back thru the inbox revealed that on 7 May, Keith WA0TJT solicited for someone to pick up Ralph's ARHAB Announcement job, but no one responded.

"It's this wartime help ..." :=(
73 de Mike W5VSI

Roger Hammond wrote:
> The last I knew it was going to be discussed at GPSL.
>
> Rog
>
> Sent from my iPod
>
> On Jul 29, 2009, at 9:41 PM, Mike Manes <mrmanes@gmail.com> wrote:
>
>> OK - sorry about that. IIRC, someone did volunteer to pick up the ARHAB
>> announcements, and I thought it was you. Do you recall who that was?
>> 73 de Mike W5VSI
>>
>> Roger Hammond wrote:
>>> Sorry Mike, I haven't had enough spare time to work on my own ARHAB
>>> projects
>>> let alone keep track of everyone else.
>>> Nice try though ;-)
>>> Rog
>>> On Wed, Jul 29, 2009 at 5:09 PM, Mike Manes <mrmanes@...> wrote:
>>>>
>>>> Ralph has earned our most sincere gratitude for all of his invaluable
>>>> support of ARHAB for, yea, these many years. I hope that he will remain
>>>> available to us in an emeritus role. In the meantime, I think Roger
>>>> may have volunteered to pick up running the announcements list.
>>>>
>>>> Tnx, 73 es CUL, Ralph!
>>>> 73 de Mike W5VSI
>>>>
>>>>
>>>> -------- Original Message --------
>>>> Subject: [Balloon_Sked] August 1st retirement
>>>> Date: Wed, 29 Jul 2009 08:24:39 -0500
>>>> From: Roger Hammond <kc0mwm@... <kc0mwm%40gmail.com>>
>>>> To: Ralph Wallio, W0RPK <W0RPK@netins.net <W0RPK%40netins.net>>
>>>> CC: balloon_sked@yahoogroups.com <balloon_sked%40yahoogroups.com>
>>>>
>>>> Ralph,
>>>>

>>>> I want to thank you for all of your contributions to ARHAB over the
>>>> years. As you know, I haven't been in the hobby near as long as many of
>>>> the other groups, but found your online information, record-keeping,
>>>> and
>>>> launch announcements very informative. Thanks to your monitoring of
>>>> some
>>>> of our flights, we made it into the record books for greatest telemetry
>>>> downlink reception range. A simple "thank you" doesn't seem like
>>>> enough.
>>>>
>>>> Enjoy your "retirement" and make good use of the extra time you'll have
>>>> available!
>>>>
>>>> Thank You!
>>>>
>>>> Roger Hammond KCØMWM
>>>> Central Nebraska Near Space Program
>>>>
>>>> *** *
>>>> ---
>>>> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
>>>> "Things should be made as simple as possible, but not more so."
>>>> A. Einstein
>>>>
>>>>
>>> [Non-text portions of this message have been removed]
>>> ------------------------------------
>>> Yahoo! Groups Links
>>> Individual Email | Traditional
>>> http://docs.yahoo.com/info/terms/
>>
>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5866. Re: [GPSL] Re: [EOSS] [Fwd: [Balloon_Sked] August 1st retirement]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 14:34:39 UTC
From: Keith Kaiser
Topic: 5865 Message: 5866

I'm still willing to take this on. But automation of it may take a
little longer than I originally thought.

73's
Keith Kaiser
wa0tjt@...

On Jul 31, 2009, at 10:24 AM, Mike Manes wrote:

> Looking back thru the inbox revealed that on 7 May, Keith WA0TJT
> solicited for
> someone to pick up Ralph's ARHAB Announcement job, but no one
> responded.
>
> "It's this wartime help ..." :=(
> 73 de Mike W5VSI
>
> Roger Hammond wrote:
> > The last I knew it was going to be discussed at GPSL.
> >
> > Rog
> >
> > Sent from my iPod
> >
> > On Jul 29, 2009, at 9:41 PM, Mike Manes <mrmanes@gmail.com> wrote:
> >
> >> OK - sorry about that. IIRC, someone did volunteer to pick up the
> ARHAB
> >> announcements, and I thought it was you. Do you recall who that
> was?
> >> 73 de Mike W5VSI
> >>
> >> Roger Hammond wrote:
> >>> Sorry Mike, I haven't had enough spare time to work on my own
> ARHAB
> >>> projects
> >>> let alone keep track of everyone else.
> >>> Nice try though ;-)
> >>> Rog
> >>> On Wed, Jul 29, 2009 at 5:09 PM, Mike Manes <mrmanes@...>
> wrote:
> >>>
> >>> Ralph has earned our most sincere gratitude for all of his
> invaluable
> >>> support of ARHAB for, yea, these many years. I hope that he
> will remain

> >>>> available to us in an emeritus role. In the meantime, I think
> Roger
> >>>> may have volunteered to pick up running the announcements list.
> >>>>
> >>>> Tnx, 73 es CUL, Ralph!
> >>>> 73 de Mike W5VSI
> >>>>
> >>>>
> >>>> -------- Original Message --------
> >>>> Subject: [Balloon_Sked] August 1st retirement
> >>>> Date: Wed, 29 Jul 2009 08:24:39 -0500
> >>>> From: Roger Hammond <kc0mwm@... <kc0mwm%40gmail.com>>
> >>>> To: Ralph Wallio, W0RPK <W0RPK@... <W0RPK%40netins.net>>
> >>>> CC: balloon_sked@yahoogroups.com <balloon_sked%40yahoogroups.com>
> >>>>
> >>>> Ralph,
> >>>>
> >>>> I want to thank you for all of your contributions to ARHAB over
> the
> >>>> years. As you know, I haven't been in the hobby near as long as
> many of
> >>>> the other groups, but found your online information, record-
> keeping,
> >>>> and
> >>>> launch announcements very informative. Thanks to your
> monitoring of
> >>>> some
> >>>> of our flights, we made it into the record books for greatest
> telemetry
> >>>> downlink reception range. A simple "thank you" doesn't seem like
> >>>> enough.
> >>>>
> >>>> Enjoy your "retirement" and make good use of the extra time
> you'll have
> >>>> available!
> >>>>
> >>>> Thank You!
> >>>>
> >>>> Roger Hammond KCØMWM
> >>>> Central Nebraska Near Space Program
> >>>>
> >>>> *** *
> >>>> ---
> >>>> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel:
> 303-979-4899
> >>>> "Things should be made as simple as possible, but not more so."
> >>>> A. Einstein
> >>>>
> >>>>
> >>> [Non-text portions of this message have been removed]

> >>> ------------------------------------
> >>> Yahoo! Groups Links
> >>> Individual Email | Traditional
> >>> http://docs.yahoo.com/info/terms/
> >>
> >> --
> >> Mike Manes mrmanes@... Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >>
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

5867. Re: [GPSL] Re: [EOSS] [Fwd: [Balloon_Sked] August 1st retirement]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 14:37:59 UTC
From: Keith Kaiser
Topic: 5865 Message: 5867

I'm still willing to take this on. But automation of it may take a
little longer than I originally thought.

73's
Keith Kaiser
wa0tjt@...

On Jul 31, 2009, at 10:24 AM, Mike Manes wrote:

> Looking back thru the inbox revealed that on 7 May, Keith WA0TJT
> solicited for
> someone to pick up Ralph's ARHAB Announcement job, but no one
> responded.
>
> "It's this wartime help ..." :=(
> 73 de Mike W5VSI
>
> Roger Hammond wrote:
> > The last I knew it was going to be discussed at GPSL.
> >
> > Rog
> >
> > Sent from my iPod
> >
> > On Jul 29, 2009, at 9:41 PM, Mike Manes <mrmanes@gmail.com> wrote:
> >
> >> OK - sorry about that. IIRC, someone did volunteer to pick up the
> ARHAB
> >> announcements, and I thought it was you. Do you recall who that
> was?
> >> 73 de Mike W5VSI
> >>
> >> Roger Hammond wrote:
> >>> Sorry Mike, I haven't had enough spare time to work on my own
> ARHAB
> >>> projects
> >>> let alone keep track of everyone else.
> >>> Nice try though ;-)
> >>> Rog
> >>> On Wed, Jul 29, 2009 at 5:09 PM, Mike Manes <mrmanes@...>
> wrote:
> >>>
> >>> Ralph has earned our most sincere gratitude for all of his
> invaluable
> >>> support of ARHAB for, yea, these many years. I hope that he
> will remain

> >>>> available to us in an emeritus role. In the meantime, I think
> Roger
> >>>> may have volunteered to pick up running the announcements list.
> >>>>
> >>>> Tnx, 73 es CUL, Ralph!
> >>>> 73 de Mike W5VSI
> >>>>
> >>>>
> >>>> -------- Original Message --------
> >>>> Subject: [Balloon_Sked] August 1st retirement
> >>>> Date: Wed, 29 Jul 2009 08:24:39 -0500
> >>>> From: Roger Hammond <kc0mwm@... <kc0mwm%40gmail.com>>
> >>>> To: Ralph Wallio, W0RPK <W0RPK@... <W0RPK%40netins.net>>
> >>>> CC: balloon_sked@yahoogroups.com <balloon_sked%40yahoogroups.com>
> >>>>
> >>>> Ralph,
> >>>>
> >>>> I want to thank you for all of your contributions to ARHAB over
> the
> >>>> years. As you know, I haven't been in the hobby near as long as
> many of
> >>>> the other groups, but found your online information, record-
> keeping,
> >>>> and
> >>>> launch announcements very informative. Thanks to your
> monitoring of
> >>>> some
> >>>> of our flights, we made it into the record books for greatest
> telemetry
> >>>> downlink reception range. A simple "thank you" doesn't seem like
> >>>> enough.
> >>>>
> >>>> Enjoy your "retirement" and make good use of the extra time
> you'll have
> >>>> available!
> >>>>
> >>>> Thank You!
> >>>>
> >>>> Roger Hammond KCØMWM
> >>>> Central Nebraska Near Space Program
> >>>>
> >>>> *** *
> >>>> ---
> >>>> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel:
> 303-979-4899
> >>>> "Things should be made as simple as possible, but not more so."
> >>>> A. Einstein
> >>>>
> >>>>
> >>> [Non-text portions of this message have been removed]

> >>> ------------------------------------
> >>> Yahoo! Groups Links
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> >> --
> >> Mike Manes mrmanes@... Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
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> >>
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

5868. Re: 48Â☐ chute and put in a 12 Â☐ ring?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 15:49:30 UTC
From: k6rpt
Topic: 5835 Message: 5868

Hi Bill,

How did you end up in California doing a launch? I was thinking central valley would be a good place also, but I have no idea how to predict a possible landing area. Would you be able to help me with a good place to launch? I'm hoping to launch in 6 to 8 weeks

Ron K6RPT

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
> Hi Ron,
>
> Â I also concur that it's a good idea to have your backup APRS beacon as a separate payload with separate batteries. I'm a big fan of redundant trackers....in fact I like to have 3 GPS trackers on each flight. I usually fly 2 APRS trackers andÂ a 2m beacon or multimode transmitter on a clear channel. You'll find that the FindMeSpot is a goodÂ 3rd backup unit (7 ounces of insurance)Â as it will tellÂ you where it has landedÂ without having to be near a digipeater since it uses the GlobalStar satellite network...this has saved me a couple of times....it's $150 plus $99 a year subscription.
>
> Â As far as a vertical ground plane....keep in mind that since its on the bottom of your payload, it will take the impact force of landing.....the weak point of such an antenna is where the wire element is soldered into the center pin of the coax connector....so reinforce that weak point before flight. The J-pole is a good way to go, but you might want to stiffen it up with a dowel rod to keep it from folding up when it lands....it also runs the risk of being yanked out of the payload where the coax connector attaches so put some strain relief at that point. I've had good success with a vertical dipole (center fed) with the elements made out of #22 wire taped or heatshrinked to a wooden dowel rod....about 20" for each wire will get you close. Just make sure not to attach the vertical dipole near large metal surfaces or objects in your payload....also if I understa
> nd your vertical antenna construction correctly, you may have an impedance problem since the best match is to have the ground elements at a 45 degree angle to the radiator....the radiosonde folks basically have a 1/4 wire soldered to their PC board pointing straight down...they use #14 insulated solid conductor wire for that part....then for the ground plane they have two wide thin metal plates which point up at a 45 degree angle on each side.
>
> Â I see from QRZ that you are in San Jose?...keep in mind that the Summer wind patterns could potentially kick you out to sea very easily....you might consider going into the central valley to fly...I've flown out of that area a few times and have landed near Tracy and Modesto a number of times.
>
> - Bill WB8ELK
>
>
>

> -----Original Message-----
> From: k6rpt <Ron@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Jul 29, 2009 12:49 am
> Subject: [GPSL] Re: 48Â" chute and put in a 12Â" ring?
>
>
>
>
>
>
>
> Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
>
> The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount connectors mounted 1" in from each end of the aluminum. I drilled a hole with the solder end out of the hole and I soldered a thin steel wire to it. That will be at the bottom of the box with the female SMA going through the bottom of the box. I have 1' SMA patch cables to connect through the foam box and the other end to each of the two independent APRS systems; each has APRS, GPS a
> nd battery. The RF output is 5 watts and will run for over 8 hrs, TX every 60 seconds. I thought it would be better to APRS position backup instead of DF. I understand APRS packets are to shot to DF.
>
> Can I put foil inside the box for shielding? The foam box is 11"X9"X9" the kind used shipping frozen foods with interlocking top.
>
> The simplex repeater is on 2m and I know it will be desensed as the packets go out. I have not setup the antenna for it yet.
>
> The camera is a Cannon A560 and I set it up to take pictures every 15 seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
>
> I hope this better describes the payload.
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
> >
> > Hi Ron,
> >
> > Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> > advisable. Any spreader ring is better than none, but I'd go bit bigger,
> > depending on the answer to the previous question.
> >
> > It's not necessary to fly a redundant APRS beacon - you just want something
> > that will give you something to chase that lasts at least 24 hours and doesn't
> > weigh a lot in batteries, in case your primary APRS beacon goes belly up. It
> > should also generate a DF-able signal - like at least 15 sec of carrier every
> > minute, not just a packet burst. You can DF a signal that's too weak to
> > produce readable packet. And once the payload's on the deck, the signal

> > gets REAL weak unless it's hung up high in a
> tree.
> >
> > Not sure what you mean by "three Â¼ wave 2m antennas pointed down at the bottom
> > of the box". What's feeding them? Is this a phased array? Note that if one
> > is transmtting while the other is receiving, the receiver won't hear squat
> > since it will be desensed big time, if not flat fried, due to strong coupling
> > amongst those close-in parallel antennas.
> >
> > Better to build your backup beacon in an entirely separate housing with its
> > own power source and antenna, and space it up or down the flight string at
> > least 5 ft. from the primary beacon.
> >
> > Mounting a 1/4 radiator directly on your payload housing can also create
> > trouble unless you have a 1/2 wave diameter counterpoise between it and the
> > rest of the guts in the beacon. Otherwise, xmtr counterpoise current will run
> > back inside searching for a path to earth, taking the buttered-side-down path.
> >
> > And if it's rigidly mounted, Murphy will see to it that it gets jammed into
> > the ground on landing - and it doesn't make any difference which side you
> > mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with a 1/4
> > wave hi-Zo matching section - lashed with plenty of slack in the copper to the
> > payload line. A vertical dipole with feedpoint on the side of the box also
> > works, but it's got a screwy pattern, and radiated RF still gets inside if the
> > box isn't shielded.
> >
> > 73 de Mike W5VSI
> >
> >
> > k6rpt wrote:
> > > Thanks again for al
> l the help. I've been reading all the posts on GPSL for almost a year
> > now and have tracked some of your launches to get some experience in tracking.
> > The recovery
> > stories are always great. I think I will get the 48" chute and put in a 12"
> > ring?
> >
> > My payload will be 3-3.5 lbs, I decided to add a second APRS to the payload
> > (don't
> > give Murphy an equal chance). Thanks Paul for the link to your book, very
> > helpful!
> >
> > I'm putting together the payload box and I built in three Â¼ wave 2m antennas
> > pointed
> > down at the bottom of the box, is that ok?
> > >
> >
> > --
> > Mike Manes mrmanes@ Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."

> > A. Einstein
> >
>

5869. Re: [GPSL] Re: 48Â” chute and put in a 12Â” ri ng?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 21:13:43 UTC
From: L. Paul Verhage
Topic: 5835 Message: 5869

Go to www.nearspaceventures.com. On the left there is an online flight predicter called BalloonTrak.

Paul

On Fri, Jul 31, 2009 at 10:49 AM, k6rpt <Ron@...> wrote:

> Hi Bill,
>
> How did you end up in California doing a launch? I was thinking central valley would be a good place also, but I have no idea how to predict a possible landing area. Would you be able to help me with a good place to launch? I'm hoping to launch in 6 to 8 weeks
>
> Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, wb8elk@... wrote:
> >
> > Hi Ron,
> >
> > Â I also concur that it's a good idea to have your backup APRS beacon as a separate payload with separate batteries. I'm a big fan of redundant trackers....in fact I like to have 3 GPS trackers on each flight. I usually fly 2 APRS trackers andÂ a 2m beacon or multimode transmitter on a clear channel. You'll find that the FindMeSpot is a goodÂ 3rd backup unit (7 ounces of insurance)Â as it will tellÂ you where it has landedÂ without having to be near a digipeater since it uses the GlobalStar satellite network...this has saved me a couple of times....it's $150 plus $99 a year subscription.
> >
> > Â As far as a vertical ground plane....keep in mind that since its on the bottom of your payload, it will take the impact force of landing.....the weak point of such an antenna is where the wire element is soldered into the center pin of the coax connector....so reinforce that weak point before flight. The J-pole is a good way to go, but you might want to stiffen it up with a dowel rod to keep it from folding up when it lands....it also runs the risk of being yanked out of the payload where the coax connector attaches so put some strain relief at that point. I've had good success with a vertical dipole (center fed) with the elements made out of #22 wire taped or heatshrinked to a wooden dowel rod....about 20" for each wire will get you close. Just make sure not to attach the vertical dipole near large metal surfaces or objects in your payload....also if I understa
> > nd your vertical antenna construction correctly, you may have an impedance problem since the best match is to have the ground elements at a 45 degree angle to the radiator....the radiosonde folks basically have a 1/4

> wire soldered to their PC board pointing straight down...they use #14
> insulated solid conductor wire for that part....then for the ground plane
> they have two wide thin metal plates which point up at a 45 degree angle on
> each side.
> >
> > Â I see from QRZ that you are in San Jose?...keep in mind that the
> Summer wind patterns could potentially kick you out to sea very
> easily....you might consider going into the central valley to fly...I've
> flown out of that area a few times and have landed near Tracy and Modesto a
> number of times.
> >
> > - Bill WB8ELK
> >
> >
> >
> > -----Original Message-----
> > From: k6rpt <Ron@...>
> > To: GPSL@yahoogroups.com
> > Sent: Wed, Jul 29, 2009 12:49 am
> > Subject: [GPSL] Re: 48Â" chute and put in a 12Â" ring?
> >
> >
> >
> >
> >
> >
> >
> > Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
> >
> > The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount
> connectors mounted 1" in from each end of the aluminum. I drilled a hole
> with the solder end out of the hole and I soldered a thin steel wire to it.
> That will be at the bottom of the box with the female SMA going through the
> bottom of the box. I have 1' SMA patch cables to connect through the foam
> box and the other end to each of the two independent APRS systems; each has
> APRS, GPS a
> > nd battery. The RF output is 5 watts and will run for over 8 hrs, TX
> every 60 seconds. I thought it would be better to APRS position backup
> instead of DF. I understand APRS packets are to shot to DF.
> >
> > Can I put foil inside the box for shielding? The foam box is 11"X9"X9"
> the kind used shipping frozen foods with interlocking top.
> >
> > The simplex repeater is on 2m and I know it will be desensed as the
> packets go out. I have not setup the antenna for it yet.
> >
> > The camera is a Cannon A560 and I set it up to take pictures every 15
> seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
> >
> > I hope this better describes the payload.
> >

> > -Ron K6RPT
> >
> > --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
> > >
> > > Hi Ron,
> > >
> > > Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> > > advisable. Any spreader ring is better than none, but I'd go bit
> bigger,
> > > depending on the answer to the previous question.
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> > > It's not necessary to fly a redundant APRS beacon - you just want
> something
> > > that will give you something to chase that lasts at least 24 hours and
> doesn't
> > > weigh a lot in batteries, in case your primary APRS beacon goes belly
> up. It
> > > should also generate a DF-able signal - like at least 15 sec of carrier
> every
> > > minute, not just a packet burst. You can DF a signal that's too weak to
> > > produce readable packet. And once the payload's on the deck, the signal
> > > gets REAL weak unless it's hung up high in a
> > tree.
> > >
> > > Not sure what you mean by "three Â¼ wave 2m antennas pointed down at
> the bottom
> > > of the box". What's feeding them? Is this a phased array? Note that if
> one
> > > is transmtting while the other is receiving, the receiver won't hear
> squat
> > > since it will be desensed big time, if not flat fried, due to strong
> coupling
> > > amongst those close-in parallel antennas.
> > >
> > > Better to build your backup beacon in an entirely separate housing with
> its
> > > own power source and antenna, and space it up or down the flight string
> at
> > > least 5 ft. from the primary beacon.
> > >
> > > Mounting a 1/4 radiator directly on your payload housing can also
> create
> > > trouble unless you have a 1/2 wave diameter counterpoise between it and
> the
> > > rest of the guts in the beacon. Otherwise, xmtr counterpoise current
> will run
> > > back inside searching for a path to earth, taking the
> buttered-side-down path.
> > >
> > > And if it's rigidly mounted, Murphy will see to it that it gets jammed

> into
> > > the ground on landing - and it doesn't make any difference which side
> you
> > > mount it on. Better to use a wire J-pole - a 1/2 wave radiator fed with
> a 1/4
> > > wave hi-Zo matching section - lashed with plenty of slack in the copper
> to the
> > > payload line. A vertical dipole with feedpoint on the side of the box
> also
> > > works, but it's got a screwy pattern, and radiated RF still gets inside
> if the
> > > box isn't shielded.
> > >
> > > 73 de Mike W5VSI
> > >
> > >
> > > k6rpt wrote:
> > > > Thanks again for al
> > l the help. I've been reading all the posts on GPSL for almost a year
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> 12"
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> > > My payload will be 3-3.5 lbs, I decided to add a second APRS to the
> payload
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> > > I'm putting together the payload box and I built in three Â¼ wave 2m
> antennas
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> > > >
> > >
> > > --
> > > Mike Manes mrmanes@ Tel: 303-979-4899
> > > "Things should be made as simple as possible, but not more so."
> > > A. Einstein
> > >
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5870. Re: [GPSL] Re: 48Â” chute and put in a 12Â” ri ng?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 21:14:15 UTC
From: L. Paul Verhage
Topic: 5835 Message: 5870

Not on the left, it's on the right.

Paul

On Fri, Jul 31, 2009 at 10:49 AM, k6rpt <Ron@...> wrote:

> Hi Bill,
>
> How did you end up in California doing a launch? I was thinking central
> valley would be a good place also, but I have no idea how to predict a
> possible landing area. Would you be able to help me with a good place to
> launch? I'm hoping to launch in 6 to 8 weeks
>
> Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, wb8elk@... wrote:
> >
> > Hi Ron,
> >
> > Â I also concur that it's a good idea to have your backup APRS beacon as
> a separate payload with separate batteries. I'm a big fan of redundant
> trackers....in fact I like to have 3 GPS trackers on each flight. I usually
> fly 2 APRS trackers andÂ a 2m beacon or multimode transmitter on a clear
> channel. You'll find that the FindMeSpot is a goodÂ 3rd backup unit (7
> ounces of insurance)Â as it will tellÂ you where it has landedÂ without
> having to be near a digipeater since it uses the GlobalStar satellite
> network...this has saved me a couple of times....it's $150 plus $99 a year
> subscription.
> >
> > Â As far as a vertical ground plane....keep in mind that since its on
> the bottom of your payload, it will take the impact force of landing.....the
> weak point of such an antenna is where the wire element is soldered into the
> center pin of the coax connector....so reinforce that weak point before
> flight. The J-pole is a good way to go, but you might want to stiffen it up
> with a dowel rod to keep it from folding up when it lands....it also runs
> the risk of being yanked out of the payload where the coax connector
> attaches so put some strain relief at that point. I've had good success with
> a vertical dipole (center fed) with the elements made out of #22 wire taped
> or heatshrinked to a wooden dowel rod....about 20" for each wire will get
> you close. Just make sure not to attach the vertical dipole near large metal
> surfaces or objects in your payload....also if I understa
> > nd your vertical antenna construction correctly, you may have an
> impedance problem since the best match is to have the ground elements at a
> 45 degree angle to the radiator....the radiosonde folks basically have a 1/4
> wire soldered to their PC board pointing straight down...they use #14

> insulated solid conductor wire for that part....then for the ground plane
> they have two wide thin metal plates which point up at a 45 degree angle on
> each side.
> >
> > Â I see from QRZ that you are in San Jose?...keep in mind that the
> Summer wind patterns could potentially kick you out to sea very
> easily....you might consider going into the central valley to fly...I've
> flown out of that area a few times and have landed near Tracy and Modesto a
> number of times.
> >
> > - Bill WB8ELK
> >
> >
> >
> > -----Original Message-----
> > From: k6rpt <Ron@...>
> > To: GPSL@yahoogroups.com
> > Sent: Wed, Jul 29, 2009 12:49 am
> > Subject: [GPSL] Re: 48Â" chute and put in a 12Â" ring?
> >
> >
> >
> >
> >
> >
> > Yes it is a 48" Spherachute, how much bigger should the spreader ring be?
> >
> > The antenna setup is a 2" X 10" peace of aluminum with SMA panel mount
> connectors mounted 1" in from each end of the aluminum. I drilled a hole
> with the solder end out of the hole and I soldered a thin steel wire to it.
> That will be at the bottom of the box with the female SMA going through the
> bottom of the box. I have 1' SMA patch cables to connect through the foam
> box and the other end to each of the two independent APRS systems; each has
> APRS, GPS a
> > nd battery. The RF output is 5 watts and will run for over 8 hrs, TX
> every 60 seconds. I thought it would be better to APRS position backup
> instead of DF. I understand APRS packets are to shot to DF.
> >
> > Can I put foil inside the box for shielding? The foam box is 11"X9"X9"
> the kind used shipping frozen foods with interlocking top.
> >
> > The simplex repeater is on 2m and I know it will be desensed as the
> packets go out. I have not setup the antenna for it yet.
> >
> > The camera is a Cannon A560 and I set it up to take pictures every 15
> seconds. When I tested it, it lasted for 5hrs and took about 1200 pictures.
> >
> > I hope this better describes the payload.
> >
> > -Ron K6RPT

> >
> > --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
> > >
> > > Hi Ron,
> > >
> > > Is that 48 Spherachute inches or skirt diameter inches? Latter is more
> > > advisable. Any spreader ring is better than none, but I'd go bit
> bigger,
> > > depending on the answer to the previous question.
> > >
> > > It's not necessary to fly a redundant APRS beacon - you just want
> something
> > > that will give you something to chase that lasts at least 24 hours and
> doesn't
> > > weigh a lot in batteries, in case your primary APRS beacon goes belly
> up. It
> > > should also generate a DF-able signal - like at least 15 sec of carrier
> every
> > > minute, not just a packet burst. You can DF a signal that's too weak to
> > > produce readable packet. And once the payload's on the deck, the signal
> > > gets REAL weak unless it's hung up high in a
> > tree.
> > >
> > > Not sure what you mean by "three Â¼ wave 2m antennas pointed down at
> the bottom
> > > of the box". What's feeding them? Is this a phased array? Note that if
> one
> > > is transmtting while the other is receiving, the receiver won't hear
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> > > since it will be desensed big time, if not flat fried, due to strong
> coupling
> > > amongst those close-in parallel antennas.
> > >
> > > Better to build your backup beacon in an entirely separate housing with
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> > > own power source and antenna, and space it up or down the flight string
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> > > least 5 ft. from the primary beacon.
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> > > Mounting a 1/4 radiator directly on your payload housing can also
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> > > trouble unless you have a 1/2 wave diameter counterpoise between it and
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> > > rest of the guts in the beacon. Otherwise, xmtr counterpoise current
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> > > back inside searching for a path to earth, taking the
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> > >
> > > And if it's rigidly mounted, Murphy will see to it that it gets jammed
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> > > the ground on landing - and it doesn't make any difference which side
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> > > wave hi-Zo matching section - lashed with plenty of slack in the copper
> to the
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> > > works, but it's got a screwy pattern, and radiated RF still gets inside
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> > > I'm putting together the payload box and I built in three Â¼ wave 2m
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> > > down at the bottom of the box, is that ok?
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> > > Mike Manes mrmanes@ Tel: 303-979-4899
> > > "Things should be made as simple as possible, but not more so."
> > > A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5871. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-30 22:15:03 UTC
From: wb8elk@aol.com
Topic: 5858 Message: 5871

Actually Paul, I've found quite the opposite to be true unless during the descent phase. Over 90k feet the null zone extends over a 5 to 10 mile?diameter in my experience. It would have to be whipping around a lot since the null zone is about 20 degrees beamwidth of the end of a vertical element. Better to have the car's whip antenna offset or even stuck on the side of the car like Mike suggests when chasing directly underneath a payload. Although for a first flight I wouldn't worry too much about it unless you plan to keep directly underneath during the chase. I once put a 10 milliwatt 434 MHz SparkFun transmitter on a balloon....the null zone was quite evident and extended 5 miles in either direction as I drove directly underneath the balloon...I could still barely hear it but it sure got strong when I drove past the null zone. With the power levels Ron is planning he might not even notice the effect.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, Jul 30, 2009 9:02 am
Subject: Re: [GPSL] Antennas

There's so much movement in near space that the null will only sweep over you for a moment.? I don't think it's an issue unless you are using?a rubber ducky antenna inside a car.

?

Paul?

On Thu, Jul 30, 2009 at 12:50 AM, k6rpt <Ron@...> wrote:

I will order a 48" Spherachute and have them sew in two crossed lines over the hole to attach the balloon line to and I will add an 8" spreader ring. According to Spherachute chart 3.4 lbs is the lower weight limit for this size chute.

It sounds like vertical antennas have a null off the tip and I would think the null would be a very large area at high altitude. The coaxial dipole could wrap around the payload on the descent, and also having a null.

I would like to ask what kind of antennas are some of the group using and how are they are attached to the payload.

Thanks again for taking the time to share the learning experiences from your flights. I'm hoping to have a successful first flight.

Ron K6RPT

Yahoo! Groups Links

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Onwards and Upwards,
Paul

5872. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 21:25:07 UTC
From: L. Paul Verhage
Topic: 5858 Message: 5872

Yeah, I see that. You're right.

I seldom am under the balloon during chase, so I don't see the null very
often. I may be on the edge of the null more than in the center of it. I
suspose even with the rocking back and forth of the antenna, you can still
spend a lot of time in the null.

Paul

On Thu, Jul 30, 2009 at 5:15 PM, <wb8elk@...> wrote:

>
>
> Actually Paul, I've found quite the opposite to be true unless during the
> descent phase. Over 90k feet the null zone extends over a 5 to 10
> mile diameter in my experience. It would have to be whipping around a lot
> since the null zone is about 20 degrees beamwidth of the end of a vertical
> element. Better to have the car's whip antenna offset or even stuck on the
> side of the car like Mike suggests when chasing directly underneath a
> payload. Although for a first flight I wouldn't worry too much about it
> unless you plan to keep directly underneath during the chase. I once put a
> 10 milliwatt 434 MHz SparkFun transmitter on a balloon....the null zone was
> quite evident and extended 5 miles in either direction as I drove directly
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> - Bill WB8ELK
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> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Jul 30, 2009 9:02 am
> Subject: Re: [GPSL] Antennas
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> On Thu, Jul 30, 2009 at 12:50 AM, k6rpt <Ron@...> wrote:

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>>
>> Ron K6RPT
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>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
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> *A Good Credit Score is 700 or Above. See yours in just 2 easy steps!<http://pr.atwola.com/promoclk/100126575x1222846709x1201493018/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115>
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Onwards and Upwards,
Paul

5873. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-01 00:04:31 UTC
From: Mike Manes
Topic: 5858 Message: 5873

If you've run a fairly confident prediction, best plan is to haul on out to a high point near the predicted landing site and just spot check the actual vs predict enroute to make tweaks. This works best in the summer, when you don't have to keep up with a 120 mph jet stream, of course. Or have trackers on site near the predict at launch time.
73 de Mike W5VSI

wb8elk@... wrote:
>
>
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> the descent phase. Over 90k feet the null zone extends over a 5 to 10
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> stuck on the side of the car like Mike suggests when chasing directly
> underneath a payload. Although for a first flight I wouldn't worry too
> much about it unless you plan to keep directly underneath during the
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> balloon....the null zone was quite evident and extended 5 miles in
> either direction as I drove directly underneath the balloon...I could
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> zone. With the power levels Ron is planning he might not even notice the
> effect.
>
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Jul 30, 2009 9:02 am
> Subject: Re: [GPSL] Antennas
>
>
> There's so much movement in near space that the null will only sweep
> over you for a moment. I don't think it's an issue unless you are
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>
> Paul
>
> On Thu, Jul 30, 2009 at 12:50 AM, k6rpt <Ron@...

> <mailto:Ron@...>> wrote:
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> Ron K6RPT
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> (Yahoo! ID required)
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> <http://pr.atwola.com/promoclk/100126575x1222846709x1201493018/aol?redir=http://www.free
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5874. Re: [GPSL] Antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 23:15:27 UTC
From: Joe
Topic: 5858 Message: 5874

Mike's Advice is EXACTLY what we here do at Near Space Sciences.

We have the recovery crews either right at the predicted landing spot
or awful close to it.

And we have the predicted path on the maps and we monitor the predicted
vs the real time track, and once the flight is about 30 min into the
flight, if the payload is tracking 3 miles south of the predicted
path, the team moves to a point that is 3 miles south of the original
landing spot.

Ever since we have been doing this every flight has been a visual
landing. The chase crews watch it land.

Joe WB9SBD
Near Space Siences
Mike Manes wrote:

>If you've run a fairly confident prediction, best plan is to haul on out
>to a high point near the predicted landing site and just spot check
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>>effect.
>>
>>- Bill WB8ELK
>>
>>

>>
>>
>>
>>-----Original Message-----
>>From: L. Paul Verhage <nearsys@...>
>>To: GPSL@yahoogroups.com
>>Sent: Thu, Jul 30, 2009 9:02 am
>>Subject: Re: [GPSL] Antennas
>>
>>
>>There's so much movement in near space that the null will only sweep
>>over you for a moment. I don't think it's an issue unless you are
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>>
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>> Ron K6RPT
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>> (Yahoo! ID required)
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>> mailto:GPSL-fullfeatured@yahoogroups.com
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>>Onwards and Upwards,
>>Paul
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>><http://pr.atwola.com/promoclk/100126575x1222846709x1201493018/aol?redir=http://www.free
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.406 / Virus Database: 270.13.38/2274 - Release Date: 07/31/09 05:58:00
>
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>

5875. Re: [GPSL] Predicting landing sites

Yahoo group: GPSL (2009 — 2010)
Date: 2009-07-31 23:35:13 UTC
From: wb8elk@aol.com
Topic: 5875 Message: 5875

Ron,

www.eoss.org (http://www.eoss.org) has Balloon Track that you can download to predict your flight path....it is pretty accurate within about 3 days of launch....but you can predict out to longer than that to get a general trend....it will also allow you to choose a landing spot and backtrack the prediction to show where you'd have to launch from to achieve that landing site goal.

There is also on online version at: _www.nearspaceventures.com_ (http://www.nearspaceventures.com) .... click on "Web Based Balloon Track on the lower right of that page.

I was launching a couple of balloons at Pacificon hamfest and also at Fresno hamfest back in the early 90s....I used to live in Berkeley, Santa Barbara and Sierra Madre near Pasadena. I've also flown from the Mojave Desert, Santa Barbara, Carmel Valley and San Clemente.

I usually enter 1000 feet/min ascent rate and about 1100 ft/min descent rate for the calculations. You can also use the Ascent rate calculator to determine the amount of nozzle lift to achieve the desired ascent rate for your system once you know the payload weight.

- Bill WB8ELK

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(http://pr.atwola.com/promoclk/100126575x1222846709x1201493018/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115)

5876. Tubesat

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-03 14:20:47 UTC
From: Roger Hammond
Topic: 5876 Message: 5876

If only it were a little more affordable...

http://spacefellowship.com/2009/08/01/interorbital-syatems-tubesat-personal-satellite-kit/

Rog KCØMWM

5877. Re: [GPSL] Tubesat

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-04 00:23:43 UTC
From: Mike Manes
Topic: 5876 Message: 5877

Well, $8K to get to LEO ain't too shabby. NASA charges in the 5-figure range per pound! But in any event, it's not coming back home - NASA's recovery rate is less than perfect.
73 de Mike W5VSI

Roger Hammond wrote:
>
>
> If only it were a little more affordable...
>
>
http://spacefellowship.com/2009/08/01/interorbital-syatems-tubesat-personal-satellite-kit/
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> Rog KCØMWM
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5878. New ARHAB website now up and running for launch announcements and records

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-04 08:08:43 UTC
From: wb8elk@aol.com
Topic: 5878 Message: 5878

Keith WA0TJT of Near Space Ventures and I (WB8ELK) have taken over doing the updates of the _www.arhab.org_ (http://www.arhab.org) website for launch announcements and records submissions.

Please note that the email address to submit a launch announcement has changed to the following: _flights@..._ (mailto:flights@...)

To submit a potential ARHAB record please email: _records@..._ (mailto:records@...)

Also please use just the _www.arhab.org_ (http://www.arhab.org) URL as the

http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm address will no longer show the current updates.

Ralph W0RPK has done a great job keeping us all informed of ARHAB balloon launches over the past 5 years....and we owe him many thanks for his tireless efforts.

We plan to keep the launch announcements and records updated on a regular basis although during this transition phase, we may not be doing the bi-weekly email updates on _Balloon_Sked@yahoogroups.com_ (mailto:Balloon_Sked@yahoogroups.com) We recommend to instead keep checking _www.arhab.org_
(http://www.arhab.org) for launch announcements and updates.

- Bill WB8ELK and Keith WA0TJT

**********A Good Credit Score is 700 or Above. See yours in just 2 easy steps!
(http://pr.atwola.com/promoclk/100126575x1222846709x1201493018/aol?redir=http://www.freecreditreport.com/pm/default.aspx?sc=668072&hmpgID=115&bcd=JulystepsfooterNO115)

5879. E.B.S.E QSO

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-04 15:51:19 UTC
From: Joe
Topic: 5879 Message: 5879

Well a little more info, I got from one of the guys that the flight that did the Earth, balloon, Satellite, Earth QSO was the infamous Amish horse scared flight!! WOW.

Still waiting to find out who the qso was with that was made via that path. and i'm actually more interested in what did we use for equipment. I honestly just do not remember! geez,

Joe WB9SBD
Near Space Sciences

5880. Re: [Balloon_Sked] New ARHAB website now up and running for launch announcements and records

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-04 20:26:51 UTC
From: Mike Manes
Topic: 5878 Message: 5880

Thanks, Bill & Keith, for filling Ralph's enormous shoes with this valuable service. The ARHAB community owes you a great debt of gratitude!

BTW, EOSS-145 was recovered 30 min after landing at 39.29602° N, 103.2943° W, just for the record. The students are now busy finishing their reports and presentations for JPL.

And I was alarmed to read to read in the copy of ATVQ that Nick brought back from GPSL that Gene Harlan WB9MMM, publisher of ATVQ, went SK last year. Even more thanks are due to you, Bill, for picking up where Gene left off. If I ever get back to my high-efficiency 1.2 GHz 3W power oscillator based WBFM ATV xmtr project, I'll send you a write-up.

73 de Mike W5VSI, EOSS

wb8elk@... wrote:
>
>
> Keith WA0TJT of Near Space Ventures and I (WB8ELK) have taken over doing
> the updates of the www.arhab.org <http://www.arhab.org> website for
> launch announcements and records submissions.
>
> Please note that the email address to submit a launch announcement has
> changed to the following: flights@... <mailto:flights@...>
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> To submit a potential ARHAB record please email: records@...
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> http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm address
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> Ralph W0RPK has done a great job keeping us all informed of ARHAB
> balloon launches over the past 5 years....and we owe him many thanks for
> his tireless efforts.
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> We plan to keep the launch announcements and records updated on a
> regular basis although during this transition phase, we may not be doing
> the bi-weekly email updates on Balloon_Sked@yahoogroups.com
> <mailto:Balloon_Sked@yahoogroups.com> We recommend to instead keep
> checking www.arhab.org <http://www.arhab.org> for launch announcements
> and updates.
>
> - Bill WB8ELK and Keith WA0TJT

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5881. Balloon size?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-04 23:43:16 UTC
From: k6rpt
Topic: 5881 Message: 5881

Thanks for the help on predicting your flight path. I'm using the online version at: www.nearspaceventures.com Web Based Balloon Track. It works great!

What size balloon do I need for a 3.5 lb payload and where is a good place to buy one?

How do you know how much helium to put in the balloon for the proper lift to weight ratio? (for 1,000 feet per minute)

Are there any tips for reaching the highest possible altitude?

Thanks, Ron K6RPT

5882. Re: [GPSL] Balloon size?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-05 13:40:11 UTC
From: L. Paul Verhage
Topic: 5881 Message: 5882

Liftwin, also at NearSpaceVentures, will tell you the amount of lift.

I go with three pounds of positive lift in my balloons. That way I'm sure
the balloon won't stall and stop rising.

Paul

On Tue, Aug 4, 2009 at 6:43 PM, k6rpt <Ron@...> wrote:

> Thanks for the help on predicting your flight path. I'm using the online
> version at: www.nearspaceventures.com Web Based Balloon Track. It works
> great!
>
> What size balloon do I need for a 3.5 lb payload and where is a good place
> to buy one?
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> How do you know how much helium to put in the balloon for the proper lift
> to weight ratio? (for 1,000 feet per minute)
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> Are there any tips for reaching the highest possible altitude?
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> Thanks, Ron K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5883. Re: [GPSL] Balloon size?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-05 14:32:48 UTC
From: Mark Conner
Topic: 5881 Message: 5883

I have flown balloons as small as 350g with payloads of about 6 lbs - that's probably the lower limit of what you'd want to fly.

A 1200g balloon should get you to 90-some thousand feet, maybe even to 100,000 if you don't fill it too much. Look up the phone contact info at http://www.kaymont.com to place an order. I have better luck with phone orders than fax/e-mail. Cost will be on the order of $60 plus shipping.

There is someone selling 600g balloons on eBay for $30 which includes postage. I got a couple myself - they are in good condition, looks like they've been stored well. I'd have to run the numbers to see how high you'd get with that, but I would guess high 70s or 80s.

73 de Mark N9XTN

On Tue, Aug 4, 2009 at 18:43, k6rpt <Ron@...> wrote:

> Thanks for the help on predicting your flight path. I'm using the online
> version at: www.nearspaceventures.com Web Based Balloon Track. It works
> great!
>
> What size balloon do I need for a 3.5 lb payload and where is a good place
> to buy one?
>
>

5884. Re: [GPSL] Balloon size?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-05 21:21:53 UTC
From: Mike Manes
Topic: 5881 Message: 5884

Three lb neck lift works OK for 800 - 1200 gm balloons with < 12 lb
neck load. But if you run a "heavy", e.g. 26 lb under a 3000, then
3 lb will only yield about 650 fpm ascent rate and risks a stall.

EOSS fills 1200s with 120 - 125% free lift (gas alone) and 115%
for 3000s. Neck lift at fill equals free lift minus balloon weight.
This a bit lighter than what LiftWin computes, but it's worked out
well for us over more than 100 flights.

Do be aware of "false lift" if there's any wind blowing across the
top of the balloon during fill; if it's over 10 kt, it can produce
a goodly chunk of your target neck lift. On launch, the false lift
goes away, and if you've not tossed in "a little more gas", your
bottom payload my go bounding across the field until it hangs up on
something or breaks off.

73 de Mike W5VSI

L. Paul Verhage wrote:
>
>
> Liftwin, also at NearSpaceVentures, will tell you the amount of lift.
>
> I go with three pounds of positive lift in my balloons. That way I'm
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> Paul
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> On Tue, Aug 4, 2009 at 6:43 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
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> Are there any tips for reaching the highest possible altitude?
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> Thanks, Ron K6RPT
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5885. Re: [GPSL] Balloon size?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-05 21:51:53 UTC
From: Mike Manes
Topic: 5881 Message: 5885

Per LiftWin, a 600 gm Totex with 3.5 lb on the neck will make about 83K'
with 6.1 lb neck lift at fill (STP) for 980 fpm.
73 de Mike W5VSI

Mark Conner wrote:
>
>
> I have flown balloons as small as 350g with payloads of about 6 lbs -
> that's probably the lower limit of what you'd want to fly.
>
> A 1200g balloon should get you to 90-some thousand feet, maybe even to
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A. Einstein

5886. How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 00:27:28 UTC
From: k6rpt
Topic: 5886 Message: 5886

Thanks Paul, Mark and Mike. With this information and the software I most of the information I need.

How do you measure how many cubic feet you have put in the balloon?

-Ron K6RPT

5887. Re: [GPSL] How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 01:50:04 UTC
From: Mike Manes
Topic: 5886 Message: 5887

Ron, that also comes out of LiftWin 0.41 in standard cubic ft (at standard temp and pressure 20C & 1031 mbar). LiftWin will also tell you the filled balloon diameter, but that's not all that easy to measure, since a latex balloon isn't spherical on the deck.

A K-bottle contains about 195 cu ft, and a T-bottle, 295 cu ft, assuming 99% purity and about 2300 psi. Industry standards stipulate that a bottle sold must contain those SCF capacities. Your gas supplier can tell you what you're buying. Beware of "balloon gas", which is intended for filling party balloons and contains 40-60% N2 to keep balloons inflated, although grounded, for days after the He has permeated thru the latex.

When the neck of the balloon is able to float a weight equal to the target, neck lift, plus a little more to compensate for false lift as required, then the fill is done.

Fill a "tare weight" to the target neck lift prior to starting the fill and tie it securely onto your fill tube. Some folks use plastic milk jugs filled with water, others, sand bags, and EOSS uses bags filled with the proper number of pre-measured weights. Be sure to include weight of the fill rig.

73 de Mike W5VSI

k6rpt wrote:
> Thanks Paul, Mark and Mike. With this information and the software I most of the information I need.
>
> How do you measure how many cubic feet you have put in the balloon?
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> -Ron K6RPT
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
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5888. Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 01:25:15 UTC
From: k6rpt
Topic: 5886 Message: 5888

I called a helium distributor today; he has a 150 cu ft bottle (industrial grade helium).

Would it be safe to assume that if I emptied bottle into a balloon (until the gas stops) it would be a 150 cu ft?

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Ron, that also comes out of LiftWin 0.41 in standard cubic ft (at standard
> temp and pressure 20C & 1031 mbar). LiftWin will also tell you the filled
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> Fill a "tare weight" to the target neck lift prior to starting the fill and
> tie it securely onto your fill tube. Some folks use plastic milk jugs filled
> with water, others, sand bags, and EOSS uses bags filled with the proper
> number of pre-measured weights. Be sure to include weight of the fill rig.
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> > -Ron K6RPT
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5889. Re: [GPSL] Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 01:35:12 UTC
From: Zack Clobes
Topic: 5886 Message: 5889

Honestly, that's about what we do.

For us (in windy Kansas), using scales or ballasts to gauge the lifting capacity isn't very effective. The wind can really blow that thing around, unless you happen to be inside of a large hanger.

Zack Clobes, W0ZC
Project: Traveler

On Wed, Aug 5, 2009 at 8:25 PM, k6rpt <Ron@...> wrote:

>
>
> I called a helium distributor today; he has a 150 cu ft bottle (industrial
> grade helium).
>
> Would it be safe to assume that if I emptied bottle into a balloon (until
> the gas stops) it would be a 150 cu ft?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com <GPSL%40yahoogroups.com>, Mike Manes <mrmanes@...>
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5890. Re: [GPSL] Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 03:08:47 UTC
From: Mike Manes
Topic: 5886 Message: 5890

You can generally catch a lull in the surface wind shortly after (yawn) sunrise, but that may be valid only for the Colorado front range. Wunderground generally has petty accurate surface forecasts a day in advance. BTW, surface wind is one of ballooning's most serious enemies. If the forecast is for over 10 kt, blow it off for a calmer day.

73 de Mike W5VSI

Zack Clobes wrote:
>
>
> Honestly, that's about what we do.
>
> For us (in windy Kansas), using scales or ballasts to gauge the lifting
> capacity isn't very effective. The wind can really blow that thing
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> Project: Traveler
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5891. Re: [GPSL] Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 03:15:25 UTC
From: Dan Bowen
Topic: 5886 Message: 5891

Here's a video of one of our balloons, UX-5, launched in too-high winds:
http://www.youtube.com/watch?v=zRtXX-rbVJ8
I think the only thing that saved it was that it was underinflated,
and was loose so it could wrap/twist around the people it hit instead
of ripping.

Thanks,
Dan
K2VOL
UTARC
SNOX

On Aug 5, 2009, at 11:08 PM, Mike Manes wrote:

> You can generally catch a lull in the surface wind shortly after
> (yawn)
> sunrise, but that may be valid only for the Colorado front range.
> Wunderground generally has petty accurate surface forecasts a day
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> > > > Yahoo! Groups Links
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> > > --
> > > Mike Manes mrmanes@... Tel: 303-979-4899
> > > "Things should be made as simple as possible, but not more so."
> > > A. Einstein
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> Mike Manes mrmanes@... Tel: 303-979-4899
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5892. Re: [GPSL] Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 03:26:08 UTC
From: Mark Conner
Topic: 5886 Message: 5892

Pretty much, if it has the standard pressure in it.

The "false lift" problem can be fairly significant. If you have a really quiet morning, you can get a reasonably accurate lift reading. But many mornings there's several knots of wind, the balloon is bouncing around, and the last thing you want to do is futz around with a scale and risk a puncture for a reading that varies several pounds plus and minus.

NSTAR regularly uses T cylinders, which have 290 cu ft at about 2600 psi. If I vent the tank down to 1300 psi (half the pressure), that *should* be about 145 cu ft (half of 290). You can make up your own ratios depending on the size of tank and the standard pressure for it (which I think is generally around 2600 psi for all sizes, but check with your supplier). While this has some inaccuracies, it's a lot better than the 30-50% errors you can get with a scale on a windy day. I only use our scale on a no-wind day as a last-minute dummy check on the lift.

We get our helium as "balloon grade" from Linweld, which is 99 or 99.9% purity. This is less than welding or industrial grade, but cheaper too (welding/industrial is 4 or 5 9's). Ask your supplier for the purity rating if they offer balloon grade - anything 99.0% or better should be fine, and I bet you can get away with 90% if you know and compensate for it.

73 de Mark N9XTN

On Wed, Aug 5, 2009 at 20:25, k6rpt <Ron@...> wrote:

> I called a helium distributor today; he has a 150 cu ft bottle (industrial
> grade helium).
>
> Would it be safe to assume that if I emptied bottle into a balloon (until
> the gas stops) it would be a 150 cu ft?
>
> -Ron K6RPT
>
>
>
>
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
> >
> > Ron, that also comes out of LiftWin 0.41 in standard cubic ft (at
> standard
> > temp and pressure 20C & 1031 mbar). LiftWin will also tell you the
> filled
> > balloon diameter, but that's not all that easy to measure, since a latex
> > balloon isn't spherical on the deck.

> >
> > A K-bottle contains about 195 cu ft, and a T-bottle, 295 cu ft, assuming
> > 99% purity and about 2300 psi. Industry standards stipulate that a
> bottle
> > sold must contain those SCF capacities. Your gas supplier can tell you
> > what you're buying. Beware of "balloon gas", which is intended for
> filling
> > party balloons and contains 40-60% N2 to keep balloons inflated, although
> > grounded, for days after the He has permeated thru the latex.
> >
> > When the neck of the balloon is able to float a weight equal to the
> target,
> > neck lift, plus a little more to compensate for false lift as required,
> > then the fill is done.
> >
> > Fill a "tare weight" to the target neck lift prior to starting the fill
> and
> > tie it securely onto your fill tube. Some folks use plastic milk jugs
> filled
> > with water, others, sand bags, and EOSS uses bags filled with the proper
> > number of pre-measured weights. Be sure to include weight of the fill
> rig.
> >
> > 73 de Mike W5VSI
> >
> > k6rpt wrote:
> > > Thanks Paul, Mark and Mike. With this information and the software I
> most of
> > the information I need.
> > >
> > > How do you measure how many cubic feet you have put in the balloon?
> > >
> > > -Ron K6RPT
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> > Mike Manes mrmanes@... Tel: 303-979-4899
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> > A. Einstein
> >

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> Yahoo! Groups Links
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5893. Totally Amazed.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 03:28:36 UTC
From: Joe
Topic: 5893 Message: 5893

I was always in the school of never tough the balloon ever you all have heard it from me before,, bla bla bla, I know what works for us we always exceed 100K well maybe 2 or 3 out of thee 47 flights have not. But anyway we were always led to belive from TOTEX in japan before paul even started carrying them about their rules about the balloons and how never to touch them and all that. Then i just seen this video and holy cow, i knew these things were tough with what happens to them in a high winds launch, like stretch to crystal clearness even. But this i honestly would have never belived. Wherever this is must have grass that is like velvet. it sure isn't grass like any here in wisconsin!

http://www.youtube.com/watch?v=NAUHbPku03g&NR=1

Joe WB9SBD
Near Space Sciences

5894. Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 18:50:37 UTC
From: Harry M
Topic: 5894 Message: 5894

Has anyone played with one of these?

Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home Monitoring Camera

http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp_cp_ob_e_title_0?ie=UTF8&qid=1249584075&sr=8-33

73 Harry KC5TRB

5895. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 19:21:05 UTC
From: Harry M
Topic: 5894 Message: 5895

Or this one...

http://www.cisco.com/en/US/products/ps9948/index.html

5896. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 20:16:34 UTC
From: Joe
Topic: 5894 Message: 5896

I have a question for everyone.

A USB web cam, like you want to do some streaming like bill did,, or whatever. But how far can a USB cable be?

What I want to stream is pretty far from the computer.

How long can you go? and do they even make USB extension cables?

Joe WB9SBD
Near Space Sciences

Harry M wrote:

>
>
> Has anyone played with one of these?
>
>
>
> Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home
> Monitoring Camera
>
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>
> http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp_cp_ob_e_title_0?ie=UTF8&qid=1249584075&sr=8-33
> <http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp_cp_ob_e_title_0?ie=UTF8&qid=1249584075&sr=8-33>
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> 73 Harry KC5TRB
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5897. Re: [GPSL] Re: How do you measure the cubic feet ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 21:33:31 UTC
From: Mike Manes
Topic: 5886 Message: 5897

Merle used to monitor the tank pressure at the start of fill and several
times during the fill to get some idea of the delivered volume. If a 295 CF
T-bottle started at 2400 psig, then when it gets down to 1200 psi (with no
flow), then about 150 cu ft had been delivered. This assumes negligible
adiabatic cooling, so Boyle's Law applies:

http://en.wikipedia.org/wiki/Boyle_law

He is too expensive to vent in order to avoid performing mental algebra,
IMHO.

73 de Mike W5VSI

Mark Conner wrote:
>
>
> Pretty much, if it has the standard pressure in it.
>
> The "false lift" problem can be fairly significant. If you have a
> really quiet morning, you can get a reasonably accurate lift reading.
> But many mornings there's several knots of wind, the balloon is bouncing
> around, and the last thing you want to do is futz around with a scale
> and risk a puncture for a reading that varies several pounds plus and
> minus.
>
> NSTAR regularly uses T cylinders, which have 290 cu ft at about 2600
> psi. If I vent the tank down to 1300 psi (half the pressure), that
> *should* be about 145 cu ft (half of 290). You can make up your own
> ratios depending on the size of tank and the standard pressure for it
> (which I think is generally around 2600 psi for all sizes, but check
> with your supplier). While this has some inaccuracies, it's a lot
> better than the 30-50% errors you can get with a scale on a windy day.
> I only use our scale on a no-wind day as a last-minute dummy check on
> the lift.
>
> We get our helium as "balloon grade" from Linweld, which is 99 or 99.9%
> purity. This is less than welding or industrial grade, but cheaper too
> (welding/industrial is 4 or 5 9's). Ask your supplier for the purity
> rating if they offer balloon grade - anything 99.0% or better should be
> fine, and I bet you can get away with 90% if you know and compensate for it.
>
> 73 de Mark N9XTN
>
>
> On Wed, Aug 5, 2009 at 20:25, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:

>
> I called a helium distributor today; he has a 150 cu ft bottle
> (industrial grade helium).
>
> Would it be safe to assume that if I emptied bottle into a balloon
> (until the gas stops) it would be a 150 cu ft?
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> -Ron K6RPT
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> --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, Mike
> Manes <mrmanes@...> wrote:
> >
> > Ron, that also comes out of LiftWin 0.41 in standard cubic ft (at
> standard
> > temp and pressure 20C & 1031 mbar). LiftWin will also tell you
> the filled
> > balloon diameter, but that's not all that easy to measure, since
> a latex
> > balloon isn't spherical on the deck.
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> > A K-bottle contains about 195 cu ft, and a T-bottle, 295 cu ft,
> assuming
> > 99% purity and about 2300 psi. Industry standards stipulate that
> a bottle
> > sold must contain those SCF capacities. Your gas supplier can
> tell you
> > what you're buying. Beware of "balloon gas", which is intended
> for filling
> > party balloons and contains 40-60% N2 to keep balloons inflated,
> although
> > grounded, for days after the He has permeated thru the latex.
> >
> > When the neck of the balloon is able to float a weight equal to
> the target,
> > neck lift, plus a little more to compensate for false lift as
> required,
> > then the fill is done.
> >
> > Fill a "tare weight" to the target neck lift prior to starting
> the fill and
> > tie it securely onto your fill tube. Some folks use plastic milk
> jugs filled
> > with water, others, sand bags, and EOSS uses bags filled with the
> proper
> > number of pre-measured weights. Be sure to include weight of the
> fill rig.
> >

> > 73 de Mike W5VSI
> >
> > k6rpt wrote:
> > > Thanks Paul, Mark and Mike. With this information and the
> software I most of
> > the information I need.
> > >
> > > How do you measure how many cubic feet you have put in the balloon?
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> > > -Ron K6RPT
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5898. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 21:21:03 UTC
From: Mark Conner
Topic: 5894 Message: 5898

You can get USB extension cables - Jameco is one supplier (www.jameco.com).

See http://www.usb.org/about/faq/ans5, which says not to use more than 5 meters without using hubs.

However, I have run a USB printer through a 30-ft extension with no significant issues. I have thought about making up a weather webcam through about 40 ft of USB cable, but have not tried it yet to see if it will work.

73 de Mark N9XTN

On Thu, Aug 6, 2009 at 15:16, Joe <nss@...> wrote:

>
>
> I have a question for everyone.
>
> A USB web cam, like you want to do some streaming like bill did,, or
> whatever. But how far can a USB cable be?
>
> What I want to stream is pretty far from the computer.
>
> How long can you go? and do they even make USB extension cables?
>
> Joe WB9SBD
> Near Space Sciences
>

5899. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 21:51:49 UTC
From: Barry L. Lankford
Topic: 5894 Message: 5899

Joe wrote:
> I have a question for everyone.
>
> A USB web cam, like you want to do some streaming like bill did,, or
> whatever. But how far can a USB cable be?
>
Don't know the answer to the USB cable length question, but Bill streams his video with the built-in webcam in his eeePC netbook (for which he has a Verizon USB aircard). I've carried it around a couple of times at launches. The whole thing probably doesn't weigh much more than a camcorder. Aiming it is just a guess (no viewfinder), but the built-in camera has a pretty wide field of view. It didn't seem to adjust well to bright sunlit scenes, so Bill taped a pair of clip-on sunglasses to it!

> What I want to stream is pretty far from the computer.
>
Another way that might work is use a 2.4GHz FMTV link from a camera or camcorder to a stationary computer with a video capture card, a la WinTV. I have an X10 2.4GHz transmitter/receiver set. The transmitter would easily fit in a medium sized Rubbermaid bowl for weather-proofing. Runs from a 12vDC wallwart that has a built-in X10 power module, but batteries would probably work OK.

> How long can you go? and do they even make USB extension cables?
>
> Joe WB9SBD Near Space Sciences
>

Barry N4MSJ

5900. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 21:57:54 UTC
From: Adam Fast
Topic: 5894 Message: 5900

6-12 feet MAX with most "normal" USB cables is the upper limit.
Shorter for high bandwidth (hard drives, etc) You can go longer with
slow devices, but they're not usually "manufactured" since it'll be
somewhat unreliable dependent on devices and they won't want the
support costs.

I haven't seen extension done with USB2 but if it can work with
USB1/1.1 a few products exist. For one large A/V install we did we
used a product from IOgear (http://www.iogear.com/product/GUCE51/)
which you can find a few variants of and elsewhere cheaper, most
likely. We used it only for a hub with a keyboard / mouse combo, but
it was reliable and we were almost 100' from the equipment rack to the
install point.

2009/8/6 Joe <nss@...>:
>
>
> I have a question for everyone.
>
> A USB web cam, like you want to do some streaming like bill did,, or
> whatever. But how far can a USB cable be?
>
> What I want to stream is pretty far from the computer.
>
> How long can you go? and do they even make USB extension cables?
>
> Joe WB9SBD
> Near Space Sciences
>
> Harry M wrote:
>
> Has anyone played with one of these?
>
>
> Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home Monitoring
> Camera
>
>
>
> http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp
_cp_ob_e_title_0?ie=UTF8&qid=1249584075&sr=8-33
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>
> 73 Harry KC5TRB
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>

5901. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 22:14:41 UTC
From: Joe
Topic: 5894 Message: 5901

Bummer,

I want to stream from a location of ohh30 fet from the computer.

Joe

Adam Fast wrote:

>6-12 feet MAX with most "normal" USB cables is the upper limit.
>Shorter for high bandwidth (hard drives, etc) You can go longer with
>slow devices, but they're not usually "manufactured" since it'll be
>somewhat unreliable dependent on devices and they won't want the
>support costs.
>
>I haven't seen extension done with USB2 but if it can work with
>USB1/1.1 a few products exist. For one large A/V install we did we
>used a product from IOgear (http://www.iogear.com/product/GUCE51/)
>which you can find a few variants of and elsewhere cheaper, most
>likely. We used it only for a hub with a keyboard / mouse combo, but
>it was reliable and we were almost 100' from the equipment rack to the
>install point.
>
>2009/8/6 Joe <nss@...>:
>
>
>>I have a question for everyone.
>>
>>A USB web cam, like you want to do some streaming like bill did,, or
>>whatever. But how far can a USB cable be?
>>
>>What I want to stream is pretty far from the computer.
>>
>>How long can you go? and do they even make USB extension cables?
>>
>>Joe WB9SBD
>>Near Space Sciences
>>
>>Harry M wrote:
>>
>>Has anyone played with one of these?
>>
>>
>>Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home Monitoring
>>Camera
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>>
>>http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp
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>>73 Harry KC5TRB
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.406 / Virus Database: 270.13.45/2285 - Release Date: 08/06/09 05:57:00
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>
>

5902. Re: [GPSL] Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-06 23:23:19 UTC
From: Mike Manes
Topic: 5894 Message: 5902

That WiFi camera oughta be just the ticket, then.

Joe wrote:
>
>
> Bummer,
>
> I want to stream from a location of ohh30 fet from the computer.
>
> Joe
>
> Adam Fast wrote:
>> 6-12 feet MAX with most "normal" USB cables is the upper limit.
>> Shorter for high bandwidth (hard drives, etc) You can go longer with
>> slow devices, but they're not usually "manufactured" since it'll be
>> somewhat unreliable dependent on devices and they won't want the
>> support costs.
>>
>> I haven't seen extension done with USB2 but if it can work with
>> USB1/1.1 a few products exist. For one large A/V install we did we
>> used a product from IOgear (http://www.iogear.com/product/GUCE51/)
>> which you can find a few variants of and elsewhere cheaper, most
>> likely. We used it only for a hub with a keyboard / mouse combo, but
>> it was reliable and we were almost 100' from the equipment rack to the
>> install point.
>>
>> 2009/8/6 Joe <nss@...>:
>>
>>> I have a question for everyone.
>>>
>>> A USB web cam, like you want to do some streaming like bill did,, or
>>> whatever. But how far can a USB cable be?
>>>
>>> What I want to stream is pretty far from the computer.
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>>> How long can you go? and do they even make USB extension cables?
>>>
>>> Joe WB9SBD
>>> Near Space Sciences
>>>
>>> Harry M wrote:
>>>
>>> Has anyone played with one of these?
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>>>

>>> Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home Monitoring
>>> Camera
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>>> http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=
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>>> 73 Harry KC5TRB
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>> Yahoo! Groups Links
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.406 / Virus Database: 270.13.45/2285 - Release Date: 08/06/09 05:57:00
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5903. Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 01:27:08 UTC
From: k6rpt
Topic: 5903 Message: 5903

Thanks again for all the information on balloons and filling them. I think I will use the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft, Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift 3.28 lbs and my pay load will be 3.5 lbs. I called the gas supplier and they have the industrial grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach a weight of 6.5 lbs "tare weight" to the fill tube prior to starting the fill, providing the weather permits. The 200 cu ft tank has 2400 psi, so when the psi on the tank drops to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont and they are out of stock on the KCI-1500 and did not know when they would be in. I hope it does not take them long to restock. I assume you would use a regulator for the tank that would fill the balloon quickly?

-Ron K6RPT

5904. WB8ELK balloon Friday at 11 am EDT from Spaceport Indiana

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 04:33:11 UTC
From: wb8elk@aol.com
Topic: 5904 Message: 5904

Date: August 7
Time: between 11:00 to 12:00 noon EDT
Bakalar Airport, Columbus, IN at Spaceport Indiana

144.39: WB8ELK-11 APRS
144.36: WB8ELK FM DominoEX22 (no-FEC)

possible: 433.94 MHz AM modulated RTTY

- Bill WB8ELK

Streaming video will start of the launch at about 10:30 am EDT

www.batc.tv (http://www.batc.tv) select "Members Streams" then select "WB8ELK"

- Bill WB8ELK

5905. Balloon to Balloon photo's

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 12:26:33 UTC
From: Jeff Dailey
Topic: 5905 Message: 5905

Goodmorning,

I put some of the balloon to balloon photo's on the GPSL site from the CCLI workshop. They are in a folder called Traylor University CCLI.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

5906. Re: [GPSL] Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 20:09:21 UTC
From: Mike Manes
Topic: 5903 Message: 5906

Hi Ron,

Does your 3.5 lb neck load include a parachute?

Since Totex products typically are transported from Japan by sea, restocking can take a while. You might consider going with the more popular (and heavily stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get you to 100K', +/- a little.

EOSS used to use a regulator on the tank, but we ran into too many problems with it freezing up from ambient humidity - so we just go directly into the 1/2" rubber fill hose and use the tank valve to control flow. Crack and close the valve a skosh before attaching the hose to the balloon to free up any sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer and heavier.

Start your fill very gradually, watching out for twists and "luffing". Once the balloon has enough gas to lift it off the tarp, you can crank up the flow.

Another hint: if you have some investment in the flight already when you're ready to fill (a long trip to the launch site, deployed trackers, etc), it might be a good idea to have a spare balloon plus gas to fill it on site, just to keep Murphy at bay. Most gas suppliers will refund uncracked bottles; our's uses a "medical seal" on the valve guard to ID uncracked bottles.

73 de Mike W5VSI

k6rpt wrote:
> Thanks again for all the information on balloons and filling them. I think I will use the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft, Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift 3.28 lbs
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grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach a weight
of 6.5 lbs "tare weight" to the fill tube prior to starting the fill, providing the
weather permits. The 200 cu ft tank has 2400 psi, so when the psi on the tank drops
to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont and they
are out of stock on the KCI-1500 and did not know when they would be in. I hope it does
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> -Ron K6RPT
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5907. Re: [GPSL] Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 19:58:27 UTC
From: Joe
Topic: 5903 Message: 5907

if he is using the pressure method to calculate how many cuft he has
used, how does one do this with a direct hook up?

Joe WB9SBD
Near Space Sciences

Mike Manes wrote:

>Hi Ron,
>
>Does your 3.5 lb neck load include a parachute?
>
>Since Totex products typically are transported from Japan by sea, restocking
>can take a while. You might consider going with the more popular (and heavily
>stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get
>you to 100K', +/- a little.
>
>EOSS used to use a regulator on the tank, but we ran into too many problems
>with it freezing up from ambient humidity - so we just go directly into the
>1/2" rubber fill hose and use the tank valve to control flow. Crack and close
>the valve a skosh before attaching the hose to the balloon to free up any
>sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer
>and heavier.
>
>Start your fill very gradually, watching out for twists and "luffing". Once
>the balloon has enough gas to lift it off the tarp, you can crank up the flow.
>
>Another hint: if you have some investment in the flight already when you're
>ready to fill (a long trip to the launch site, deployed trackers, etc), it
>might be a good idea to have a spare balloon plus gas to fill it on site, just
>to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
>our's uses a "medical seal" on the valve guard to ID uncracked bottles.
>
>73 de Mike W5VSI
>
>k6rpt wrote:
>
>
>>Thanks again for all the information on balloons and filling them. I think I will use
>>
>>
>the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft,
>Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift
>3.28 lbs
>and my pay load will be 3.5 lbs. I called the gas supplier and they have the
>industrial

>grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach
>a weight
>of 6.5 lbs "tare weight" to the fill tube prior to starting the fill,
>providing the
>weather permits. The 200 cu ft tank has 2400 psi, so when the psi on the tank
>drops
>to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont
>and they
>are out of stock on the KCI-1500 and did not know when they would be in. I
>hope it does
>not take them long to restock. I assume you would use a regulator for the tank
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>
>
>>-Ron K6RPT
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>>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.406 / Virus Database: 270.13.46/2288 - Release Date: 08/07/09 13:13:00
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5908. Re: Wireless Internet Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 20:11:03 UTC
From: jjdemeyer
Topic: 5894 Message: 5908

I played with one a few years ago. While it operated OK, I wasn't impressed with the video quality (at the time), and it didn't lend itself to the kind of customization I needed. I ended up sending it back.

Joe
KD8EYH

--- In GPSL@yahoogroups.com, "Harry M" <hhm_74115@...> wrote:
>
> Has anyone played with one of these?
>
> Linksys WVC54GCA Webcam 640x480 802.11G Wireless Internet Home Monitoring Camera
>
> http://www.amazon.com/Linksys-WVC54GCA-Wireless-Internet-Monitoring/dp/B0010OXEDU/ref=dp_cp_ob_e_title_0?ie=UTF8&qid=1249584075&sr=8-33
>
>
> 73 Harry KC5TRB
>

5909. Re: [GPSL] Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 21:12:07 UTC
From: Mike Manes
Topic: 5903 Message: 5909

Ron said: "I will attach a weight of 6.5 lbs "tare weight" to the fill tube prior to starting the fill,...". The pressure drop method is a backup to deal with possible false lift. I assume he's got a pressure guage on the tank.

Joe wrote:
>
>
> if he is using the pressure method to calculate how many cuft he has
> used, how does one do this with a direct hook up?
>
> Joe WB9SBD
> Near Space Sciences
>
> Mike Manes wrote:
>> Hi Ron,
>>
>> Does your 3.5 lb neck load include a parachute?
>>
>> Since Totex products typically are transported from Japan by sea, restocking
>> can take a while. You might consider going with the more popular (and heavily
>> stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get
>> you to 100K', +/- a little.
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>> EOSS used to use a regulator on the tank, but we ran into too many problems
>> with it freezing up from ambient humidity - so we just go directly into the
>> 1/2" rubber fill hose and use the tank valve to control flow. Crack and close
>> the valve a skosh before attaching the hose to the balloon to free up any
>> sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer
>> and heavier.
>>
>> Start your fill very gradually, watching out for twists and "luffing". Once
>> the balloon has enough gas to lift it off the tarp, you can crank up the flow.
>>
>> Another hint: if you have some investment in the flight already when you're
>> ready to fill (a long trip to the launch site, deployed trackers, etc), it
>> might be a good idea to have a spare balloon plus gas to fill it on site, just
>> to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
>> our's uses a "medical seal" on the valve guard to ID uncracked bottles.
>>
>> 73 de Mike W5VSI
>>
>> k6rpt wrote:
>>
>>> Thanks again for all the information on balloons and filling them. I think I will use
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>> the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft,
>> Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift
>> 3.28 lbs
>> and my pay load will be 3.5 lbs. I called the gas supplier and they have the
>> industrial
>> grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach
>> a weight
>> of 6.5 lbs "tare weight" to the fill tube prior to starting the fill,
>> providing the
>> weather permits. The 200 cu ft tank has 2400 psi, so when the psi on the tank
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>> to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont
>> and they
>> are out of stock on the KCI-1500 and did not know when they would be in. I
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>> not take them long to restock. I assume you would use a regulator for the tank
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>>
>>> -Ron K6RPT
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5910. Re: [GPSL] Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 20:28:31 UTC
From: Joe
Topic: 5903 Message: 5910

ahhh

Mike Manes wrote:

>Ron said: "I will attach a weight of 6.5 lbs "tare weight" to the fill tube
>prior to starting the fill,...". The pressure drop method is a backup to deal
>with possible false lift. I assume he's got a pressure guage on the tank.
>
>Joe wrote:
>
>
>>if he is using the pressure method to calculate how many cuft he has
>>used, how does one do this with a direct hook up?
>>
>>Joe WB9SBD
>>Near Space Sciences
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>>Mike Manes wrote:
>>
>>
>>>Hi Ron,
>>>
>>>Does your 3.5 lb neck load include a parachute?
>>>
>>>Since Totex products typically are transported from Japan by sea, restocking
>>>can take a while. You might consider going with the more popular (and heavily
>>>stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get
>>>you to 100K', +/- a little.
>>>
>>>EOSS used to use a regulator on the tank, but we ran into too many problems
>>>with it freezing up from ambient humidity - so we just go directly into the
>>>1/2" rubber fill hose and use the tank valve to control flow. Crack and close
>>>the valve a skosh before attaching the hose to the balloon to free up any
>>>sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer
>>>and heavier.
>>>
>>>Start your fill very gradually, watching out for twists and "luffing". Once
>>>the balloon has enough gas to lift it off the tarp, you can crank up the flow.
>>>
>>>Another hint: if you have some investment in the flight already when you're
>>>ready to fill (a long trip to the launch site, deployed trackers, etc), it
>>>might be a good idea to have a spare balloon plus gas to fill it on site, just
>>>to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
>>>our's uses a "medical seal" on the valve guard to ID uncracked bottles.
>>>

>>>73 de Mike W5VSI
>>>
>>>k6rpt wrote:
>>>
>>>
>>>
>>>>Thanks again for all the information on balloons and filling them. I think I will use
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>>>>
>>>>
>>>the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft,
>>>Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift
>>>3.28 lbs
>>>and my pay load will be 3.5 lbs. I called the gas supplier and they have the
>>>industrial
>>>grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach
>>>a weight
>>>of 6.5 lbs "tare weight" to the fill tube prior to starting the fill,
>>>providing the
>>>weather permits. The 200 cu ft tank has 2400 psi, so when the psi on the tank
>>>drops
>>>to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont
>>>and they
>>>are out of stock on the KCI-1500 and did not know when they would be in. I
>>>hope it does
>>>not take them long to restock. I assume you would use a regulator for the tank
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>>>would fill the balloon quickly?
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>>>
>>>>-Ron K6RPT
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5911. Re: Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-07 23:24:20 UTC
From: k6rpt
Topic: 5903 Message: 5911

If no regulator is needed, I will build a setup that will have the 2600 psi gauge between the tank and a new gate valve. I will fill using the new gate valve and shut it off to check tank psi during the fill. I will look for a very light and flexible fill hose with an od of 3 cm. The 3.5 lbs is approximate payload weight, I just received the chute today and I will add it to the payload weight.

Has Bill recovered his payload from today's launch?

Thanks, Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> Does your 3.5 lb neck load include a parachute?
>
> Since Totex products typically are transported from Japan by sea, restocking
> can take a while. You might consider going with the more popular (and heavily
> stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get
> you to 100K', +/- a little.
>
> EOSS used to use a regulator on the tank, but we ran into too many problems
> with it freezing up from ambient humidity - so we just go directly into the
> 1/2" rubber fill hose and use the tank valve to control flow. Crack and close
> the valve a skosh before attaching the hose to the balloon to free up any
> sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer
> and heavier.
>
> Start your fill very gradually, watching out for twists and "luffing". Once
> the balloon has enough gas to lift it off the tarp, you can crank up the flow.
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> Another hint: if you have some investment in the flight already when you're
> ready to fill (a long trip to the launch site, deployed trackers, etc), it
> might be a good idea to have a spare balloon plus gas to fill it on site, just
> to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
> our's uses a "medical seal" on the valve guard to ID uncracked bottles.
>
> 73 de Mike W5VSI
>
> k6rpt wrote:
> > Thanks again for all the information on balloons and filling them. I think I will use
> the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft,
> Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift
> 3.28 lbs
> and my pay load will be 3.5 lbs. I called the gas supplier and they have the
> industrial

> grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach
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> are out of stock on the KCI-1500 and did not know when they would be in. I
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> would fill the balloon quickly?
> >
> > -Ron K6RPT
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

5912. Re: [GPSL] Re: Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-08 01:00:51 UTC
From: Mike Manes
Topic: 5903 Message: 5912

Better be sure that gate valve is rated for that sort of pressure. It's also
a good idea to get a kink-resistant hose; a kinked common rubber hose doesn't
stand a chance against 2600 psi. And you could get by with a bit smaller
hose; a 1/2" ID does provide some flow resistance that helps keep flow under
control.

I think Bill did post a landing lat/lon, so at least he knows where to fetch
it from if he got his hands on it yet.

73 de Mike W5VSI

k6rpt wrote:
> If no regulator is needed, I will build a setup that will have the 2600 psi gauge between
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> Has Bill recovered his payload from today's launch?
>
> Thanks, Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
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>> with it freezing up from ambient humidity - so we just go directly into the
>> 1/2" rubber fill hose and use the tank valve to control flow. Crack and close
>> the valve a skosh before attaching the hose to the balloon to free up any
>> sticktion. Some folks have used ordinary garden hose, but it's a bit stiffer
>> and heavier.
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>> Start your fill very gradually, watching out for twists and "luffing". Once
>> the balloon has enough gas to lift it off the tarp, you can crank up the flow.
>>

>> Another hint: if you have some investment in the flight already when you're
>> ready to fill (a long trip to the launch site, deployed trackers, etc), it
>> might be a good idea to have a spare balloon plus gas to fill it on site, just
>> to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
>> our's uses a "medical seal" on the valve guard to ID uncracked bottles.
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>> 73 de Mike W5VSI
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>> k6rpt wrote:
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>> and my pay load will be 3.5 lbs. I called the gas supplier and they have the
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5913. Re: Balloons and filling them

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-08 17:30:58 UTC
From: k6rpt
Topic: 5903 Message: 5913

Thanks Mike, I will make sure the valve is good at 2600 psi and maybe a restrictor washer might be good to help regulate the flow.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Better be sure that gate valve is rated for that sort of pressure. It's also
> a good idea to get a kink-resistant hose; a kinked common rubber hose doesn't
> stand a chance against 2600 psi. And you could get by with a bit smaller
> hose; a 1/2" ID does provide some flow resistance that helps keep flow under
> control.
>
> I think Bill did post a landing lat/lon, so at least he knows where to fetch
> it from if he got his hands on it yet.
>
> 73 de Mike W5VSI
>
>
> k6rpt wrote:
> > If no regulator is needed, I will build a setup that will have the 2600 psi gauge
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> the tank and a new gate valve. I will fill using the new gate valve and shut
> it off to
> check tank psi during the fill. I will look for a very light and flexible fill
> hose with an
> od of 3 cm. The 3.5 lbs is approximate payload weight, I just received the
> chute today and
> I will add it to the payload weight.
> >
> > Has Bill recovered his payload from today's launch?
> >
> > Thanks, Ron K6RPT
> >
> >
> > --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@> wrote:
> >> Hi Ron,
> >>
> >> Does your 3.5 lb neck load include a parachute?
> >>
> >> Since Totex products typically are transported from Japan by sea, restocking
> >> can take a while. You might consider going with the more popular (and heavily
> >> stocked) KCI-1200. That'll save you some $$$ in rubber & gas and still get
> >> you to 100K', +/- a little.
> >>

> >> EOSS used to use a regulator on the tank, but we ran into too many problems
> >> with it freezing up from ambient humidity - so we just go directly into the
> >> 1/2" rubber fill hose and use the tank valve to control flow. Crack and close
> >> the valve a skosh before attaching the hose to the balloon to free up any
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> >> Start your fill very gradually, watching out for twists and "luffing". Once
> >> the balloon has enough gas to lift it off the tarp, you can crank up the flow.
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> >> Another hint: if you have some investment in the flight already when you're
> >> ready to fill (a long trip to the launch site, deployed trackers, etc), it
> >> might be a good idea to have a spare balloon plus gas to fill it on site, just
> >> to keep Murphy at bay. Most gas suppliers will refund uncracked bottles;
> >> our's uses a "medical seal" on the valve guard to ID uncracked bottles.
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> >> 73 de Mike W5VSI
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> >> k6rpt wrote:
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> >> the KCI-1500 with the following: Balloon Diameter 6.6', Balloon Volume 154 cu ft,
> >> Nozzle Lift 6.78 lbs, Peak Altitude 107 k, Ascend Speed 1000 fpm, Free Lift
> >> 3.28 lbs
> >> and my pay load will be 3.5 lbs. I called the gas supplier and they have the
> >> industrial
> >> grade at 99 %. The tank sizes are, 150, 200, 250 and 300 cu ft. I will attach
> >> a weight
> >> of 6.5 lbs "tare weight" to the fill tube prior to starting the fill,
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> >> to 922 psi when the valve is off, I should have 154 cu ft. I called Kaymont
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> >> not take them long to restock. I assume you would use a regulator for the tank
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> >>> -Ron K6RPT
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> >> --
> >> Mike Manes mrmanes@ Tel: 303-979-4899
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>

5914. Project: Traveler has a new home...

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-09 03:25:31 UTC
From: Zack Clobes
Topic: 5914 Message: 5914

Ever since GPSL this year, I've been hard at work on a new website and some new equipment to get back into flying.

For those of you with cross-links or bookmarks, please update our links accordingly:

http://www.projecttraveler.org/traveler/

Thanks,
Zack Clobes, W0ZC
Project: Traveler

5915. Balloon Schedules

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-10 18:36:48 UTC
From: Keith Kaiser
Topic: 5915 Message: 5915

Aeronauts,

We've been hard at it here folks. A new and improved announcements page has been created for your enjoyment. Please see it here; http://www.arhab.org/ARHABlaunchannouncements.html

One of the new features is a link to a form you can use to submit your launch announcements with. It does not automatically update the page, I still have to do that by hand, but it makes the submission easier I hope.
Please note too that I plan to use colors to indicate if a flight has launched (green), cancelled (pink), or is still pending (white).

I would really appreciate everyone sending the latitude and longitude of their launch in decimal form.

What other links or information would you like to see on the home page (arhab.org)?

If you like these changes, tell a friend, if you don't tell me.

Thanks..

73's
Keith Kaiser
wa0tjt@...

5916. Re: [GPSL] Balloon Schedules

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-10 18:49:45 UTC
From: Joe
Topic: 5915 Message: 5916

are we going to be getting a day or two before a scheduled flight an e
mail version of this. or are we now required to gom and look for ourselves.

not that this is any trouble, just a good thing to know if we need to
or not?

Joe WB9SBD
Near Space Sciences
Keith Kaiser wrote:

>Aeronauts,
>
>We've been hard at it here folks. A new and improved announcements
>page has been created for your enjoyment. Please see it here;
http://www.arhab.org/ARHABlaunchannouncements.html
>
>One of the new features is a link to a form you can use to submit your
>launch announcements with. It does not automatically update the page,
>I still have to do that by hand, but it makes the submission easier I
>hope.
>Please note too that I plan to use colors to indicate if a flight has
>launched (green), cancelled (pink), or is still pending (white).
>
>I would really appreciate everyone sending the latitude and longitude
>of their launch in decimal form.
>
>What other links or information would you like to see on the home page
>(arhab.org)?
>
>If you like these changes, tell a friend, if you don't tell me.
>
>Thanks..
>
>73's
>Keith Kaiser
>wa0tjt@...
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>

5917. Re: [GPSL] Balloon Schedules

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-10 19:53:41 UTC
From: Keith Kaiser
Topic: 5915 Message: 5917

Excellent question Joe.

For now you will need to go and look for yourself. I'm going to try and send an eMail out every time there is an update to the schedule but not the schedule itself. The eMail will have a direct link to the schedules page.

Eventually the goal is to make it so each of us can update the schedule for ourselves. Once this is in place a reminder eMail will probably only be sent once a week.

73's
Keith Kaiser
wa0tjt@...

On Aug 10, 2009, at 1:49 PM, Joe wrote:

> are we going to be getting a day or two before a scheduled flight an
> e mail version of this. or are we now required to gom and look for
> ourselves.
>
> not that this is any trouble, just a good thing to know if we need
> to or not?
>
> Joe WB9SBD
> Near Space Sciences
> Keith Kaiser wrote:
>
>> Aeronauts,
>>
>> We've been hard at it here folks. A new and improved announcements
>> page has been created for your enjoyment. Please see it here;
http://www.arhab.org/ARHABlaunchannouncements.html
>>
>> One of the new features is a link to a form you can use to submit
>> your
>> launch announcements with. It does not automatically update the page,
>> I still have to do that by hand, but it makes the submission easier I
>> hope.
>> Please note too that I plan to use colors to indicate if a flight has
>> launched (green), cancelled (pink), or is still pending (white).
>>
>> I would really appreciate everyone sending the latitude and longitude
>> of their launch in decimal form.
>>
>> What other links or information would you like to see on the home

>> page
>> (arhab.org)?
>>
>> If you like these changes, tell a friend, if you don't tell me.
>>
>> Thanks..
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>> 73's
>> Keith Kaiser
>> wa0tjt@...
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>> Yahoo! Groups Links
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.406 / Virus Database: 270.13.49/2294 - Release Date:
>> 08/10/09 06:10:00
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5918. Re: [Balloon_Sked] Re: [GPSL] Balloon Schedules

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-10 20:19:52 UTC
From: Joe
Topic: 5915 Message: 5918

cool!

Keith Kaiser wrote:

>
>
> Excellent question Joe.
>
> For now you will need to go and look for yourself. I'm going to try
> and send an eMail out every time there is an update to the schedule
> but not the schedule itself. The eMail
> will have a direct link to the schedules page.
>
> Eventually the goal is to make it so each of us can update the schedule for ourselves.
Once this is in place a reminder eMail will probably only be sent once a week.
>
>
> 73's
> Keith Kaiser
> wa0tjt@... <mailto:wa0tjt@...>
>
>
>
> On Aug 10, 2009, at 1:49 PM, Joe wrote:
>
>> are we going to be getting a day or two before a scheduled flight an
>> e mail version of this. or are we n! ! ow required to gom and look
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>> not that this is any trouble, just a good thing to know if we need
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>> Joe WB9SBD
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>> Keith Kaiser wrote:
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>>>Aeronauts,
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>>>We've been hard at it here folks. A new and improved announcements
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>>>launched (green), cancelled (pink), or is still pending (white).
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>>>of their launch in decimal form.
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>>>Keith Kaiser
>>>wa0tjt@...
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5919. Re: [GPSL] Balloon Schedules

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-10 21:34:36 UTC
From: Mike Manes
Topic: 5915 Message: 5919

There's a web site at:

http://www.changedetection.com/

which EOSS uses on some of its announcement and prediction pages to allow users to subscribe to brief emails with links to go out whenever a particular web page is updated. That might be a handy way to get the word out to folks w/o requiring frequent (and often fruitless) visits to the ARHAB site.

If interested, EOSS's Wiz o' de Web, Rick N0KKZ, can tell you more.

73 de Mike W5VSI

Joe wrote:
>
>
> are we going to be getting a day or two before a scheduled flight an e
> mail version of this. or are we now required to gom and look for ourselves.
>
> not that this is any trouble, just a good thing to know if we need to
> or not?
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> Joe WB9SBD
> Near Space Sciences
> Keith Kaiser wrote:
>> Aeronauts,
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>> We've been hard at it here folks. A new and improved announcements
>> page has been created for your enjoyment. Please see it here;
http://www.arhab.org/ARHABlaunchannouncements.html
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>> One of the new features is a link to a form you can use to submit your
>> launch announcements with. It does not automatically update the page,
>> I still have to do that by hand, but it makes the submission easier I
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>> launched (green), cancelled (pink), or is still pending (white).
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>> of their launch in decimal form.
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>> What other links or information would you like to see on the home page
>> (arhab.org)?
>>
>> If you like these changes, tell a friend, if you don't tell me.
>>

>> Thanks..
>>
>> 73's
>> Keith Kaiser
>> wa0tjt@...
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>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5920. Re: [Balloon_Sked] What defines an amateur radio high altitude balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-11 03:51:00 UTC
From: Keith Kaiser
Topic: 5920 Message: 5920

Chris, by anybody's definition you are an aeronaut. Welcome to the group. I would be pleased to publish your flights, we may have to start a new category for them but publish them we will. As to Amateur Radio, well we already have a couple of groups who use other than Ham equipment, so I don't see that as an issue.

Be sure to prepare a paper to give at next years GPSL (superlaunch.org) which if things work out will be at the NASA Columbia Balloon Research Center in Texas.

73's
Keith Kaiser
wa0tjt@...

On Aug 10, 2009, at 9:53 PM, Chris Fries wrote:

> Hi everyone,
>
> I joined the group a few months ago, but I'm building balloons that
> look a lot like yours. We're building tiny (<100g) packages and
> using mylar balloons, currently trying to set longer durations and
> distances. We've sent four balloons up, recovered three (one stuck
> in the top of a tree in Nova Scotia but we have pics of it), and
> have gone between 100 and 1300 miles, with times in the air from
> about 8 hours to ~23 hours. Our medium term goal is to hit Europe
> (from Chicago) and our long term goal would be a circumnavigation of
> the earth on a budget. :)
>
> So, what defines ARHAB? Do we have to use amateur radio, or is it
> fine if we're just amateur balloonists? So far, we've been using PCS-
> band GSM/UMTS cell phone technology to send GPS coordinates and
> video/pictures from the sky. Are superpressure/mylar balloons still
> in the scope? Is 10,000 feet "high altitude"? Is 20,000?
>
> If it maintains altitude using electric fans, but is still lighter
> than air, is it still a balloon? (Yeah, we're looking at solar
> panels and RC Helicopter parts to maintain a lower altitude in the
> sun, along with a freescale pressure sensor to monitor atmospheric
> pressure)
>
> Anyway, if we do fit in the criteria, we'll probably submit our
> launch schedule and website for getting updates. Our position
> updates come via Email or SMS, usually directly to a blog. We've
> already got a couple of the longest duration, longest distance, and
> lightest flights.
>

> Thanks,
> Chris
>
>

5921. Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-11 12:53:22 UTC
From: Jeff Dailey
Topic: 5921 Message: 5921

Taylor University will be launching from Fishers Indiana as part of the 150th anniversary of air mail.

The first airmail flight was in 1859 by John Wise in his jupiter balloon check out the site below for info.
http://www.smithsonianmag.com/history-archaeology/object-aug06.html

We will be launching from the grounds at Conner Prairie, sense this is a outreach flight the APRS and the crossband repeater will be onboard.

Flight #: 202
Flight ID: CP001
Date: 8-15-2009
Time: 3:00PM EST

APRS: 144.390 KB9ZNZ-1
CROSSBAND: Uplink: 144.36 Downlink: 446.025

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

5922. Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-11 22:35:11 UTC
From: Joe
Topic: 5922 Message: 5922

Hi gang,

While not exactly balloon flight, but they do go to altitudes that like us few others go to.

I'm a follower of the Brit show Top Gear. i know i'm a gear Head, and these guys are just plain funny!!

Anyway one of the trio gets to go on a ride I'd love to do if given the change. He rode a U-2, how cool is that? I know they exceeded 70K and don't remember how much Higher they got to but still way cool

It's at a embedded video at an Astronomy site I was passing through looking for Persied predictions,

Check the movie out way cool!

http://wiastro.com/SkyandTelescope.html

Joe WB9SBD
Near Space Sciences

5923. Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 10:42:14 UTC
From: Joe
Topic: 5923 Message: 5923

I was wondering, what the curve would be or looklikeif you were to plot standard average cruising flight levels for aircraft.

I would think if you looked at only commercial passenger and cargo planes it would be a simple bell curve.

But I guess it probably would be more of a triple peaked curve if you add in private aircraft like cessenas and thenadd the military?

Anyone have a chart or graph that shows these flight levels?

This kinda would be like a traffic congestion map that shows where the most traffic is elevation wise true?

Anyone know of anything out there like this?

Joe

5924. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 13:53:33 UTC
From: zclobes@gmail.com
Topic: 5923 Message: 5924

I'm not aware of any existing statistics for that, but there is a website called flightaware.com that will let you see any flight that is airbone with an IFR flight plan. On the left-hand menu, you can ask to see a random flight, so I wouldn't think it would take but 20 minutes of time to put together a spreadsheet and/or run some stats off of dozens of flights.

Keep in mind that these are strictly IFR-planned flights. I'm not aware of any comparable tracking system for VFR flights. The good news is that most VFR activity is under about 6,000AGL, and absolutely tops out at 18,000 (FL180) per regs.

If you put something together, I'd love to see your data.

Zack Clobes, W0ZC
Project: Traveler

On Aug 12, 2009 5:42am, Joe <nss@...> wrote:

> I was wondering, what the curve would be or looklikeif
> you were to plot standard average cruising flight levels for aircraft.

> I would think if you looked at only commercial passenger and cargo
> planes it would be a simple bell curve.

> But I guess it probably would be more of a triple peaked curve if you
> add in private aircraft like cessenas and thenadd the military?

> Anyone have a chart or graph that shows these flight levels?

> This kinda would be like a traffic congestion map that shows where the
> most traffic is elevation wise true?

> Anyone know of anything out there like this?

> Joe

>

5925. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 14:29:47 UTC
From: Joe
Topic: 5923 Message: 5925

Yeah it I would think be published someplace ya know. Might be
interesting to see any operational windows of lesser activity. In other
words like us the planes use this altitude of X just passing through
to get to the level they will cruise at. so the "Zone" should have
less population

Joe

zclobes@... wrote:

>
>
> I'm not aware of any existing statistics for that, but there is a
> website called flightaware.com that will let you see any flight that
> is airbone with an IFR flight plan. On the left-hand menu, you can ask
> to see a random flight, so I wouldn't think it would take but 20
> minutes of time to put together a spreadsheet and/or run some stats
> off of dozens of flights.
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> aware of any comparable tracking system for VFR flights. The good news
> is that most VFR activity is under about 6,000AGL, and absolutely tops
> out at 18,000 (FL180) per regs.
>
>
> If you put something together, I'd love to see your data.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
> On Aug 12, 2009 5:42am, Joe <nss@...> wrote:
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> > But I guess it probably would be more of a triple peaked curve if you
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> > Anyone have a chart or graph that shows these flight levels?
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> > Anyone know of anything out there like this?
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> > Joe
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>No virus found in this incoming message.

>Checked by AVG - www.avg.com
>Version: 8.5.406 / Virus Database: 270.13.52/2298 - Release Date: 08/12/09 06:09:00
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5926. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 17:41:41 UTC
From: James Hannon
Topic: 5923 Message: 5926

Some time ago now someone here at work had set up an ACARS receiver and some software to analyze the incoming data. From that he had a real time map of all the within line of sight aircraft that were reporting position with ACARS. I really don't know much about it but ACARS is a bit like the ham radio APRS but for aircraft. Some quick web browsing shows a number of products avaliable for receiving and analyzing ACARS data. Might be worth looking into.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Joe" <nss@...>
Sent 8/12/2009 9:29:47 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Flight levels?Yeah it I would think be published someplace ya know. Might be interesting to see any operational windows of lesser activity. In other words like us the planes use this altitude of X just passing through to get to the level they will cruise at. so the "Zone" should have less population
Joezclobes@... wrote:
I'm not aware of any existing statistics for that, but there is a website called flightaware.com that will let you see any flight that is airbone with an IFR flight plan. On the left-hand menu, you can ask to see a random flight, so I wouldn't think it would take but 20 minutes of time to put together a spreadsheet and/or run some stats off of dozens of flights.
Keep in mind that these are strictly IFR-planned flights. I'm not aware of any comparable tracking system for VFR flights. The good news is that most VFR activity is under about 6,000AGL, and absolutely tops out at 18,000 (FL180) per regs.
If you put something together, I'd love to see your data.
Zack Clobes, W0ZC
Project: Traveler
On Aug 12, 2009 5:42am, Joe <nss@...> wrote:
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> I was wondering, what the curve would be or looklikeif
> you were to plot standard average cruising flight levels for aircraft.
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> I would think if you looked at only commercial passenger and cargo
> planes it would be a simple bell curve.
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> But I guess it probably would be more of a triple peaked curve if you
> add in private aircraft like cessenas and thenadd the military?
>
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>
> Anyone have a chart or graph that shows these flight levels?
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> This kinda would be like a traffic congestion map that shows where the
> most traffic is elevation wise true?
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> Anyone know of anything out there like this?
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> Joe
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No virus found in this incoming message.
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5927. Re: Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 18:27:36 UTC
From: zclobes@gmail.com
Topic: 5923 Message: 5927

I'm not positive, but I believe that ACARS is primarily used on the airlines, and that you would be missing a lot of the private/corporate traffic.

Zack Clobes, W0ZC
Project: Traveler

On Aug 12, 2009 12:41pm, James Hannon <jmhannon@...> wrote:

> Some time ago now someone here at work had set up an ACARS receiver and
> some software to analyze the incoming data. From that he had a real time
> map of all the within line of sight aircraft that were reporting position
> with ACARS. I really don't know much about it but ACARS is a bit like the
> ham radio APRS but for aircraft. Some quick web browsing shows a number
> of products avaliable for receiving and analyzing ACARS data. Might be
> worth looking into.

> Jim Hannon

> http://www.fmtcs.com/web/jmhannon/

> 42,11.90N,91,39.26W

> WB0TXL

> -----Original Message-----

> From: "Joe" nss@...>

> Sent 8/12/2009 9:29:47 AM

> To: GPSL@yahoogroups.com

> Subject: Re: [GPSL] Flight levels?

> Yeah it I would think be published someplace ya know. Might be
> interesting to see any operational windows of lesser activity. In other
> words like us the planes use this altitude of X just passing through to
> get to the level they will cruise at. so the "Zone" should have less
> population

> Joe

> zclobes@... wrote:

> I'm not aware of any existing statistics for that, but there is a website
> called flightaware.com that will let you see any flight that is airbone
> with an IFR flight plan. On the left-hand menu, you can ask to see a
> random flight, so I wouldn't think it would take but 20 minutes of time

> to put together a spreadsheet and/or run some stats off of dozens of
> flights.

> Keep in mind that these are strictly IFR-planned flights. I'm not aware
> of any comparable tracking system for VFR flights. The good news is that
> most VFR activity is under about 6,000AGL, and absolutely tops out at
> 18,000 (FL180) per regs.

> If you put something together, I'd love to see your data.

> Zack Clobes, W0ZC

> Project: Traveler

> On Aug 12, 2009 5:42am, Joe wrote:

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> > I was wondering, what the curve would be or looklikeif

> > you were to plot standard average cruising flight levels for aircraft.

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> > I would think if you looked at only commercial passenger and cargo

> > planes it would be a simple bell curve.

> >

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> > But I guess it probably would be more of a triple peaked curve if you

> > add in private aircraft like cessenas and thenadd the military?

> >

> >

> >

> > Anyone have a chart or graph that shows these flight levels?

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> >

> > This kinda would be like a traffic congestion map that shows where the

> > most traffic is elevation wise true?

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> > Anyone know of anything out there like this?

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> > Joe

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> 08/12/09 06:09:00

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5928. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-12 22:42:38 UTC
From: Harry M
Topic: 5923 Message: 5928
Attachments: 1 described; binary payloads are missing from this source WARC

Some time back a friend sent me this.
I have no idea as to the source.

Everything in yellow is an aircraft.....

It is a 24 hour observation of all of the large aircraft flights in the world, condensed down to about 2 minutes. From space it looks like a beehive of activity. You can tell it was summer time in the north by the sun's footprint over the planet. You could see that it didn't quite set in the extreme north and it didn't quite rise in the extreme south.

As evening approaches, the traffic is predominantly from the US to Europe and when daylight comes, the traffic switches and it is predominantly from Europe to the US .

5929. Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 04:16:09 UTC
From: Bruce Coates
Topic: 5818 Message: 5929

Hi Greg

I just got mine and and it definitely does log the altitude. I even checked with the manufacturer just to be certain. It's also pretty efficient ac compressing the data. I cranked up the logging on mine to once per second and it recorded over 11 an a half minutes of data in just 6 kilobytes of memory or about a 10:1 compression ratio. Once you use the Log Decompress feature in Skytraq you end up with a clear text file in the format shown below. it also generates a KML file. Very cool. I hope to get this little fella up on our next flight later this month.

WNO TOW Time Date DECEF_X DECEF_Y DECEF_Z ECEF_X ECEF_Y ECEF_Z Speed Longitude Latitude Altitude Mode
1544 359629 3:53:35 8/13/2009 0 0 0 -1123972 -3762406 5009647 0 -106.633 52.09633 319.2962 1
1544 359634 3:53:40 8/13/2009 0 0 0 -1123972 -3762406 5009647 0 -106.633 52.09633 319.2962 2
1544 359639 3:53:45 8/13/2009 0 0 1 -1123972 -3762406 5009648 0 -106.633 52.09633 320.0852 2
1544 359644 3:53:50 8/13/2009 0 0 0 -1123972 -3762406 5009648 0 -106.633 52.09633 320.0852 2
1544 359649 3:53:55 8/13/2009 0 1 0 -1123972 -3762405 5009648 0 -106.633 52.09634 319.4966 2
1544 359654 3:54:00 8/13/2009 -1 0 1 -1123973 -3762405 5009649 0 -106.633 52.09634 320.4615 2

73, Bruce
VE5BNC

----- Original Message -----
From: k7rkt
To: GPSL@yahoogroups.com
Sent: Monday, July 27, 2009 10:19 PM
Subject: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=9171
>

I have one of these. It doesn't log the altitude.

Greg K7RKT

5930. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 05:40:13 UTC
From: Mike Manes
Topic: 5923 Message: 5930

From my own experience, I think most jets like to cruise between FL330 and 390. Not many can comfortably make much over FL400, and the air is too thick below FL300 for efficient cruise. I managed to coax my A4C up to FL450 once, but that's about all I was able to accomplish that flight, starting out with a full 9300 lb of JP4.

The turboprop commuter short-hop birds do just fine at FL250 and below, but they don't comprise the majority of the commercial air traffic.

General aviation recip props get along fine below 10,000 ft MSL, and must stay below 15,000 unless they're pressurized.

That from an old, not-bold, ex-pilot.

73 de Mike W5VSI

Joe wrote:
>
>
> I was wondering, what the curve would be or looklikeif you were to plot
> standard average cruising flight levels for aircraft.
>
> I would think if you looked at only commercial passenger and cargo
> planes it would be a simple bell curve.
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> But I guess it probably would be more of a triple peaked curve if you
> add in private aircraft like cessenas and thenadd the military?
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> Anyone have a chart or graph that shows these flight levels?
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> This kinda would be like a traffic congestion map that shows where the
> most traffic is elevation wise true?
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> Anyone know of anything out there like this?
>
> Joe
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5931. Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 12:42:42 UTC
From: L. Paul Verhage
Topic: 5818 Message: 5931

So does it work above 60,000 feet. Inquirying minds wnat to know.

On Wed, Aug 12, 2009 at 11:16 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Greg
>
> I just got mine and and it definitely does log the altitude. I even
> checked with the manufacturer just to be certain. It's also pretty
> efficient ac compressing the data. I cranked up the logging on mine to once
> per second and it recorded over 11 an a half minutes of data in just 6
> kilobytes of memory or about a 10:1 compression ratio. Once you use the Log
> Decompress feature in Skytraq you end up with a clear text file in the
> format shown below. it also generates a KML file. Very cool. I hope to
> get this little fella up on our next flight later this month.
>
> WNO TOW Time Date DECEF_X DECEF_Y DECEF_Z ECEF_X ECEF_Y ECEF_Z Speed
> Longitude Latitude Altitude Mode 1544 359629 3:53:35 8/13/2009 0 0 0
> -1123972 -3762406 5009647 0 -106.633 52.09633 319.2962 1 1544 359634
> 3:53:40 8/13/2009 0 0 0 -1123972 -3762406 5009647 0 -106.633 52.09633
> 319.2962 2 1544 359639 3:53:45 8/13/2009 0 0 1 -1123972 -3762406 5009648 0
> -106.633 52.09633 320.0852 2 1544 359644 3:53:50 8/13/2009 0 0 0 -1123972
> -3762406 5009648 0 -106.633 52.09633 320.0852 2 1544 359649 3:53:55
> 8/13/2009 0 1 0 -1123972 -3762405 5009648 0 -106.633 52.09634 319.4966 2
> 1544 359654 3:54:00 8/13/2009 -1 0 1 -1123973 -3762405 5009649 0 -106.633
> 52.09634 320.4615 2
>
> 73, Bruce
> VE5BNC
>
>
> ----- Original Message -----
> *From:* k7rkt <k7rkt@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Monday, July 27, 2009 10:19 PM
> *Subject:* [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun
>
>
>
>
> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
> >
> > http://www.sparkfun.com/commerce/product_info.php?products_id=9171
> >
>

> I have one of these. It doesn't log the altitude.
>
> Greg K7RKT
>
>
>
>

--
Onwards and Upwards,
Paul

5932. Re: Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 12:47:45 UTC
From: zclobes@gmail.com
Topic: 5923 Message: 5932

The other thing to consider is that on a short hop (think Wichita to Denver, or Dallas), most jets spend most of their time either climbing or descending. Even though that CRJ is going to climb up to FL330, statistically if you're going to have a strike, it probably won't be at full cruising height yet.

Just food for thought... I'm not sure what your intentions are for this data.

Zack Clobes, W0ZC
Project: Traveler

On Aug 13, 2009 12:40am, Mike Manes <mrmanes@...> wrote:

> From my own experience, I think most jets like to cruise between FL330 and

> 390. Not many can comfortably make much over FL400, and the air is too

> thick below FL300 for efficient cruise. I managed to coax my A4C up to

> FL450 once, but that's about all I was able to accomplish that flight,

> starting out with a full 9300 lb of JP4.

> The turboprop commuter short-hop birds do just fine at FL250 and below,

> but they don't comprise the majority of the commercial air traffic.

> General aviation recip props get along fine below 10,000 ft MSL, and

> must stay below 15,000 unless they're pressurized.

> That from an old, not-bold, ex-pilot.

> 73 de Mike W5VSI

> Joe wrote:

> >

> >

> > I was wondering, what the curve would be or looklikeif you were to plot

> > standard average cruising flight levels for aircraft.

> >

> > I would think if you looked at only commercial passenger and cargo

> > planes it would be a simple bell curve.

> >

> > But I guess it probably would be more of a triple peaked curve if you

> > add in private aircraft like cessenas and thenadd the military?

> >

> > Anyone have a chart or graph that shows these flight levels?

> >

> > This kinda would be like a traffic congestion map that shows where the

> > most traffic is elevation wise true?

> >

> > Anyone know of anything out there like this?

> >

> > Joe

> >

> >

> >

> --

> Mike Manes mrmanes@... Tel: 303-979-4899

> "Things should be made as simple as possible, but not more so."

> A. Einstein

>

5933. Fw: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 13:36:28 UTC
From: Bruce Coates
Topic: 5933 Message: 5933

Oops. Missed sending this to the list.

BC

----- Original Message -----
Hi Greg

That remains to be seen. As Mark mentioned in the original post, the spec claims that you can exceed either the speed or altitude limit but not both, just like the Garmin units that many people fly. Only a test flight will tell us for certain. I'll be posting my flight results to the group.

73, Bruce

> ----- Original Message -----
> From: "Greg Clark" <K7RKT@...>
> To: <bruce.coates@...>
> Sent: Wednesday, August 12, 2009 11:37 PM
> Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun
>
>
> On Thu, Aug 13, 2009 at 7:36 AM, Greg Clark<K7RKT@...> wrote:
>> Thanks Bruce -- I'll have to go back and check this out on mine,
>> perhaps I have an older version? -- next question -- will it work
>> above 18000m ?
>>
>> -- Greg
>

5934. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 13:37:08 UTC
From: Joe
Topic: 5923 Message: 5934

Good Info Mike.

So if you were to try to avoid traffic of course as we all knew stay as high as possible, But there is a small window at a mid level also by the looks of things yes? Like a small window between ohh 25K and 30K?

Yes?

Mike Manes wrote:

> From my own experience, I think most jets like to cruise between FL330 and
>390. Not many can comfortably make much over FL400, and the air is too
>thick below FL300 for efficient cruise. I managed to coax my A4C up to
>FL450 once, but that's about all I was able to accomplish that flight,
>starting out with a full 9300 lb of JP4.
>
>The turboprop commuter short-hop birds do just fine at FL250 and below,
>but they don't comprise the majority of the commercial air traffic.
>
>General aviation recip props get along fine below 10,000 ft MSL, and
>must stay below 15,000 unless they're pressurized.
>
>That from an old, not-bold, ex-pilot.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>I was wondering, what the curve would be or looklikeif you were to plot
>>standard average cruising flight levels for aircraft.
>>
>>I would think if you looked at only commercial passenger and cargo
>>planes it would be a simple bell curve.
>>
>>But I guess it probably would be more of a triple peaked curve if you
>>add in private aircraft like cessenas and thenadd the military?
>>
>>Anyone have a chart or graph that shows these flight levels?
>>
>>This kinda would be like a traffic congestion map that shows where the
>>most traffic is elevation wise true?
>>
>>Anyone know of anything out there like this?
>>
>>Joe

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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.409 / Virus Database: 270.13.54/2300 - Release Date: 08/13/09 06:11:00
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5935. Re: Fw: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 14:03:45 UTC
From: L. Paul Verhage
Topic: 5933 Message: 5935

I'm starting an article for Popular Mechanics (their online version) on making a near space tracker. So I'll be very interested in hear about the results.

Paul

On Thu, Aug 13, 2009 at 8:36 AM, Bruce Coates <bruce.coates@...>wrote:

> Oops. Missed sending this to the list.
>
> BC
>
> ----- Original Message -----
> Hi Greg
>
> That remains to be seen. As Mark mentioned in the original post, the spec
> claims that you can exceed either the speed or altitude limit but not both,
> just like the Garmin units that many people fly. Only a test flight will
> tell us for certain. I'll be posting my flight results to the group.
>
> 73, Bruce
>
>
> > ----- Original Message -----
> > From: "Greg Clark" <K7RKT@...>
> > To: <bruce.coates@...>
> > Sent: Wednesday, August 12, 2009 11:37 PM
> > Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun
> > >
> > >
> > On Thu, Aug 13, 2009 at 7:36 AM, Greg Clark<K7RKT@...> wrote:
> >> Thanks Bruce -- I'll have to go back and check this out on mine,
> >> perhaps I have an older version? -- next question -- will it work
> >> above 18000m ?
> >>
> >> -- Greg
> > >
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5936. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-13 23:46:30 UTC
From: Mike Manes
Topic: 5923 Message: 5936

Hi Joe,

Well, I recited typical enroute cruising altitudes. But by 'n by, the jet aeroplanes have to get up there from and back down to zero AGL. And those climbs and descents occur within about 50 miles of airfield. So the only "safe" altitudes for balloons lie in the relatively unpopulated airspace above about FL450 - and FL600+ for sure.

73 de Mike W5VSI

Joe wrote:
>
>
> Good Info Mike.
>
> So if you were to try to avoid traffic of course as we all knew stay as
> high as possible, But there is a small window at a mid level also by
> the looks of things yes? Like a small window between ohh 25K and 30K?
>
> Yes?
>
> Mike Manes wrote:
>> From my own experience, I think most jets like to cruise between FL330 and
>> 390. Not many can comfortably make much over FL400, and the air is too
>> thick below FL300 for efficient cruise. I managed to coax my A4C up to
>> FL450 once, but that's about all I was able to accomplish that flight,
>> starting out with a full 9300 lb of JP4.
>>
>> The turboprop commuter short-hop birds do just fine at FL250 and below,
>> but they don't comprise the majority of the commercial air traffic.
>>
>> General aviation recip props get along fine below 10,000 ft MSL, and
>> must stay below 15,000 unless they're pressurized.
>>
>> That from an old, not-bold, ex-pilot.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> I was wondering, what the curve would be or looklikeif you were to plot
>>> standard average cruising flight levels for aircraft.
>>>
>>> I would think if you looked at only commercial passenger and cargo
>>> planes it would be a simple bell curve.
>>>

>>> But I guess it probably would be more of a triple peaked curve if you
>>> add in private aircraft like cessenas and thenadd the military?
>>>
>>> Anyone have a chart or graph that shows these flight levels?
>>>
>>> This kinda would be like a traffic congestion map that shows where the
>>> most traffic is elevation wise true?
>>>
>>> Anyone know of anything out there like this?
>>>
>>> Joe
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>> ---
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>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.54/2300 - Release Date: 08/13/09 06:11:00
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5937. Vulture 1: Calling all electronics wizards • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 01:00:17 UTC
From: Mike Manes
Topic: 5937 Message: 5937

Nice piece of e-press for the Cambridge group! Kudos, James.

http://www.theregister.co.uk/2009/08/11/paris_update/

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5938. Re: [GPSL] Flight levels?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 01:11:54 UTC
From: Mike Manes
Topic: 5923 Message: 5938

Here's the wiki on ACARS:
http://en.wikipedia.org/wiki/ACARS
73 de Mike W5VSI

James Hannon wrote:
>
>
> Some time ago now someone here at work had set up an ACARS receiver and
> some software to analyze the incoming data. From that he had a real time
> map of all the within line of sight aircraft that were reporting
> position with ACARS. I really don't know much about it but ACARS is a
> bit like the ham radio APRS but for aircraft. Some quick web browsing
> shows a number of products avaliable for receiving and analyzing ACARS
> data. Might be worth looking into.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "Joe" <nss@...>
> Sent 8/12/2009 9:29:47 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Flight levels?
>
> Yeah it I would think be published someplace ya know. Might be
> interesting to see any operational windows of lesser activity. In other
> words like us the planes use this altitude of X just passing through
> to get to the level they will cruise at. so the "Zone" should have
> less population
>
> Joe
>
> zclobes@... wrote:
>> I'm not aware of any existing statistics for that, but there is a
>> website called flightaware.com that will let you see any flight that
>> is airbone with an IFR flight plan. On the left-hand menu, you can ask
>> to see a random flight, so I wouldn't think it would take but 20
>> minutes of time to put together a spreadsheet and/or run some stats
>> off of dozens of flights.
>>
>> Keep in mind that these are strictly IFR-planned flights. I'm not

>> aware of any comparable tracking system for VFR flights. The good news
>> is that most VFR activity is under about 6,000AGL, and absolutely tops
>> out at 18,000 (FL180) per regs.
>>
>>
>> If you put something together, I'd love to see your data.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>>
>> On Aug 12, 2009 5:42am, Joe <nss@...> wrote:
>> >
>> >
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>> >
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>> >
>> > I was wondering, what the curve would be or looklikeif
>> > you were to plot standard average cruising flight levels for aircraft.
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>> >
>> > I would think if you looked at only commercial passenger and cargo
>> > planes it would be a simple bell curve.
>> >
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>> >
>> > But I guess it probably would be more of a triple peaked curve if you
>> > add in private aircraft like cessenas and thenadd the military?
>> >
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>> >
>> > Anyone have a chart or graph that shows these flight levels?
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>> > This kinda would be like a traffic congestion map that shows where the
>> > most traffic is elevation wise true?
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>> > Anyone know of anything out there like this?
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>> > Joe
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>> ---
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.406 / Virus Database: 270.13.52/2298 - Release Date: 08/12/09 06:09:00
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5939. Radar Reflector ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 04:18:32 UTC
From: k6rpt
Topic: 5939 Message: 5939

I'm looking for a light weight radar reflector, any suggestions? I was looking at this one, http://www.landfallnavigation.com/sd151.html it weighs 7.3 oz.

-Ron K6RPT

5940. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 06:54:11 UTC
From: Barry L. Lankford
Topic: 5939 Message: 5940

By coincidence I was just now following up a link given in a post that arrived just before yours and eventually clicked my way to a page with a novel idea for a cut-down device using amateur rocketry ignitors in small sealed plastic tubes. That same page also had an idea about making a very lightweight (30g) radar reflector out of carbon fiber kite spars and metalized plastic/paper ("Space Blanket" material).

It'd probably be way less expensive to make than the commercial one in your link. Other than cost, my only other concerns about the commercial one would be weight and water resistance, although as the ad says it's made of "plastic-metal foil laminate," it might also be lightweight. As it is advertised in a boating catalog, I'd also think it'd be water resistant, so either way you'd probably be OK.

BTW most small aircraft, as far as I know, still don't have radar, and ATC may be more interested in transponder targets than reflective ones. So, it's possible retro reflectors may not be of any value on a balloon unless the balloon flight has been coordinated through the FAA. Can't hurt though.

Here's the link:
> http://wiki.ukhas.org.uk/ideas:flight_support#pyrotechnic_cutdown_device

More on the cut down device: The fact that the rocket motor ignitors only require 2A at 3V for a few milliseconds permits them to be fired from energy accumulated in a capacitor from a very small battery, as shown in the RC/FET firing circuit shown further down the page.

Barry N4MSJ

k6rpt wrote:
> I'm looking for a light weight radar reflector, any suggestions? I was
> looking at this one, http://www.landfallnavigation.com/sd151.html it
> weighs 7.3 oz.
>
> -Ron K6RPT

5941. Re: [GPSL] Radar Reflector ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 12:44:21 UTC
From: L. Paul Verhage
Topic: 5939 Message: 5941

I have found that air traffic control towers do not see the radar reflectors
on balloons. Perhaps that data is filtered out for them?

Paul

On Thu, Aug 13, 2009 at 11:18 PM, k6rpt <Ron@...> wrote:

> I'm looking for a light weight radar reflector, any suggestions? I was
> looking at this one, http://www.landfallnavigation.com/sd151.html it
> weighs 7.3 oz.
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5942. Re: [GPSL] Radar Reflector ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 15:25:57 UTC
From: Joe
Topic: 5939 Message: 5942

I think it might be a option to filter or not.

Back in the mid 90's we had an awesome supervisor in chicago. he loved our flights. he wanted pictures videos, copies of everything after every flight.

And to this day I still remember on one video flight, during the flight we get a phone call and it's him, hes talking and then asks thet this is a video flight again right?

Yes,,

and he says what way is the camera looking?

anywhere I say i can make it look anywhere.

he says to make it look down.

He says is it looking down? and i say yup.

he say keep watching closely,

keep watching

keep watching get ready,,

then all of sudden here flys by a DC-10 it was pretty small about 1" on the TV screen (Big TV a 27" screen) but he goes I guess by the sounds that you just saw it, he was watching the reflection from the balloon. and knew the altitude was from the gps too. was way cool.

But even before the GPS's were used, the wonderous Ohare special they were watching it as it came down, and as it landed right in O hare,

so I guess they can see it when they want to?

Joe

L. Paul Verhage wrote:

>
>
> I have found that air traffic control towers do not see the radar
> reflectors on balloons. Perhaps that data is filtered out for them?
>
> Paul
>
> On Thu, Aug 13, 2009 at 11:18 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:

>
> I'm looking for a light weight radar reflector, any suggestions? I
> was looking at this one,
> http://www.landfallnavigation.com/sd151.html it weighs 7.3 oz.
>
> -Ron K6RPT
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> Yahoo! Groups Links
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> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> Onwards and Upwards,
> Paul
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.409 / Virus Database: 270.13.56/2302 - Release Date: 08/14/09 06:10:00
>
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>

5943. Re: [GPSL] Radar Reflector ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 23:28:38 UTC
From: Mike Manes
Topic: 5939 Message: 5943

Hi Ron,

Radar reflectors are only required by FAR-101 for non-exempt flights, and the FAA doesn't look at primary returns any more - they rely on Mode C or S transponders. Accordingly, I can't think of any ARHAB groups who fly one. EOSS's COA for its heavies includes an exemption from the radar reflector so long as we I-gate our APRS onto findu.com.

But you could fly one if you wish so NORAD will see ya, although they don't require that much radar cross-section.

73 de Mike W5VSI, EOSS

k6rpt wrote:
> I'm looking for a light weight radar reflector, any suggestions? I was looking at this one, http://www.landfallnavigation.com/sd151.html it weighs 7.3 oz.
>
> -Ron K6RPT
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5944. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-14 23:50:15 UTC
From: Mike Manes
Topic: 5939 Message: 5944

One downside to a radar reflector is that it creates a LOT of drag, and during descent, it could actually tip the parachute sideways - where it really doesn't work so well.

One caveat re pyrotechnic cutdown devices it that they can ignite a grass fire if they go off after landing. And making your firing circuit TOO sensitive in the presence of strong RF, like from a 50W mobile rig, could set it off accidentally.

73 de Mike W5VSI

Barry L. Lankford wrote:
> By coincidence I was just now following up a link given in a post that
> arrived just before yours and eventually clicked my way to a page with a
> novel idea for a cut-down device using amateur rocketry ignitors in small
> sealed plastic tubes. That same page also had an idea about making a very
> lightweight (30g) radar reflector out of carbon fiber kite spars and
> metalized plastic/paper ("Space Blanket" material).
>
> It'd probably be way less expensive to make than the commercial one in your
> link. Other than cost, my only other concerns about the commercial one
> would be weight and water resistance, although as the ad says it's made of
> "plastic-metal foil laminate," it might also be lightweight. As it is
> advertised in a boating catalog, I'd also think it'd be water resistant, so
> either way you'd probably be OK.
>
> BTW most small aircraft, as far as I know, still don't have radar, and ATC
> may be more interested in transponder targets than reflective ones. So,
> it's possible retro reflectors may not be of any value on a balloon unless
> the balloon flight has been coordinated through the FAA. Can't hurt though.
>
> Here's the link:
>> http://wiki.ukhas.org.uk/ideas:flight_support#pyrotechnic_cutdown_device
>
> More on the cut down device: The fact that the rocket motor ignitors only
> require 2A at 3V for a few milliseconds permits them to be fired from
> energy accumulated in a capacitor from a very small battery, as shown in
> the RC/FET firing circuit shown further down the page.
>
> Barry N4MSJ
>
>
> k6rpt wrote:
>> I'm looking for a light weight radar reflector, any suggestions? I was

>> looking at this one, http://www.landfallnavigation.com/sd151.html it
>> weighs 7.3 oz.
>>
>> -Ron K6RPT
>
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>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5945. Re: [GPSL] Radar Reflector ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-15 00:14:30 UTC
From: Mike Manes
Topic: 5939 Message: 5945

Primary returns are what are reflected from the aircraft, and anything else
that reflects radar energy - like nearby cars, buildings, etc - the latter
is known as "clutter" because it really clutters up the controllers' scope
displays. Primary returns contain accurate position info, but only those that
are associated with transponder sigs get pre-processed and are replaced by
icons on the scopes. Controllers CAN enable primary returns, but would do
that only in the event of a transponder failure on a bird he's controlling.

73 de Mike W5VSI

Joe wrote:
>
>
> I think it might be a option to filter or not.
>
> Back in the mid 90's we had an awesome supervisor in chicago. he loved
> our flights. he wanted pictures videos, copies of everything after
> every flight.
>
> And to this day I still remember on one video flight, during the flight
> we get a phone call and it's him, hes talking and then asks thet this
> is a video flight again right?
>
> Yes,,
>
> and he says what way is the camera looking?
>
> anywhere I say i can make it look anywhere.
>
> he says to make it look down.
>
> He says is it looking down? and i say yup.
>
> he say keep watching closely,
>
> keep watching
>
> keep watching get ready,,
>
> then all of sudden here flys by a DC-10 it was pretty small about 1"
> on the TV screen (Big TV a 27" screen) but he goes I guess by the
> sounds that you just saw it, he was watching the reflection from the
> balloon. and knew the altitude was from the gps too. was way cool.
>
> But even before the GPS's were used, the wonderous Ohare special they

> were watching it as it came down, and as it landed right in O hare,
>
> so I guess they can see it when they want to?
>
> Joe
>
> L. Paul Verhage wrote:
>> I have found that air traffic control towers do not see the radar
>> reflectors on balloons. Perhaps that data is filtered out for them?
>>
>> Paul
>>
>> On Thu, Aug 13, 2009 at 11:18 PM, k6rpt <Ron@...
>> <mailto:Ron@...>> wrote:
>>
>> I'm looking for a light weight radar reflector, any suggestions? I
>> was looking at this one,
>> http://www.landfallnavigation.com/sd151.html it weighs 7.3 oz.
>>
>> -Ron K6RPT
>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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>> mailto:GPSL-fullfeatured@yahoogroups.com
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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>> --
>> Onwards and Upwards,
>> Paul
>> --
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.56/2302 - Release Date: 08/14/09 06:10:00
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5946. No radar reflector

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-15 19:26:22 UTC
From: k6rpt
Topic: 5946 Message: 5946

I will not use a radar reflector since it's not going to be looked at by anybody, 7.3 oz less weight. Thanks for all the input, it helps allot. I'm hoping to launch September 12.

-Ron K6RPT

5947. Channel for the second APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-15 21:42:06 UTC
From: k6rpt
Topic: 5947 Message: 5947

I will have one APRS on 144.39. What is a good channel for the second APRS?

-Ron K6RPT

5948. Re: [GPSL] Channel for the second APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 05:37:46 UTC
From: Mark Conner
Topic: 5947 Message: 5948

Many have settled on 144.36 as a second channel. NSTAR used to use
144.34 MHz, but that is often used as a simplex coordination channel
for ATVers. It was used a lot by ARHAB as a way to alert ATVers that
an ATV-equipped balloon was aloft, and is probably OK if that's the
case. But if you're not flying an ATV payload, it's probably better
not to use 144.34.

Because the CA spectrum is so crowded, you may want to see if it's in
regular use beforehand though. Nobody else can really 'own' it, but
if there's a choice something else might be better in CA.

73 de Mark N9XTN

On Sat, Aug 15, 2009 at 16:42, k6rpt<Ron@...> wrote:
> I will have one APRS on 144.39. What is a good channel for the second APRS?
>
> -Ron K6RPT
>
>

5949. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 07:19:52 UTC
From: Barry L. Lankford
Topic: 5939 Message: 5949

Mike Manes wrote:
> [snipped]
> One caveat re pyrotechnic cutdown devices it that they can ignite a
> grass fire if they go off after landing. And making your firing
> circuit TOO sensitive in the presence of strong RF, like from a
> 50W mobile rig, could set it off accidentally.
>
> 73 de Mike W5VSI
>

I know the cut down device wasn't the main subject of this thread, but I don't think this idea should be dismissed too quickly.

I went through my amateur rocketry phase before Estes and others started making commercial rocket motors and ignitors, but from what I've seen more recently at public rocket launch events, I don't picture a modern rocket ignitor as a highly explosive device. I think of them as being more like an electrically ignited match that, once ignited, flares into a small flame that only burns for a few moments (since there's no matchstick to ignite).

The separation of the cut down device is caused by the fact that the ignitor is sealed gas-tight inside a frangible plastic tube that is sealed at each end with epoxy. The generated gas overpressurizes the tube shattering it. Granted most ignitable materials of that type burn much faster if the pressure increases inside a sealed container, but there's still such a limited amount of the ignitable material that the fire would probably be mostly over when the plastic tube shatters. Amateur rocketry materials are federally regulated, and with product liability risks being what they are, a lot of development has gone into making them reasonably safe when used with some degree of responsibility.

I imagine the risk of setting a grass/brush fire, if the device was somehow to be fired after landing, could easily be minimized to an insignificant risk by taking a few simple precautions. Some that immediately come to mind are: 1) a "blast shield" of thin aluminum, maybe even ordinary foil, could be wrapped loosely around the mechanism; and 2) if a flight computer is available instead of just a simple RF command decoder, it could be programmed such that, if a manual fire command isn't received to ignite the cut-down device at altitude, the computer could send a fire command at any time after a sustained period of descent is detected, i.e., after the balloon has burst. Other parameters could be incorporated to initiate an automatic cut down before landing, such as attainment of a desired altitude, or exceeding a preset distance downrange, in other words, the usual reasons for having a cut down device. All would prevent the device from firing after landing.

I wouldn't consider the device to be "too sensitive" as a significantly large amount of energy is still required to fire it. The advantage is that a large battery isn't required to sustain a long period of heating to, say, melt the payload line with a heated nichrome wire. The firing circuit is very similar to "BC" (Battery/Capacitor) flashguns that used to be used to fire one-time flashbulbs for flash photography a few decades ago.

These ignitors are used to fire rockets that, more and more often, have onboard telemetry transmitters and have as much likelihood of being near a 50W mobile rig as an ARHAB balloon does. As always, proper design (shielding, twisted-pair wiring, bypassing, "safing" shunts, etc.) should be a foremost consideration. They should be extremely safe to transport, even in quantity, by keeping the ignitor leads shorted until ready for use, and the whole firing circuit/flight computer setup can be easily tested by putting a 6V low wattage bulb in place of the ignitor and operating the test article in an RF environment similar to what might be encountered at the launch site and in flight.

The author of the article stated he has tested the devices successfully at low temps (-30C) and in a vacuum chamber (unknown value), but the article doesn't state that it has actually been used in flight. Also, since the ends of the shattered tube would likely remain attached to the ends of the flight train line, I wouldn't recommend use in a situation where the severed line end has to pass through something like a ring, although the tube attachment could probably be made smoothly tapered such that the likelihood of catching on a ring or other opening would be very low.

I like the idea that they are extremely lightweight, cheap and easy to make and the materials are available almost anywhere (I think you can even buy the ignitors at Walmart and BIC pen barrels might even serve as the plastic tube for lightweight payloads). The fact that the ignitors are manufactured to a highly controlled degree of repeatability, should make the finished cut down device extremely reliable. I may make some and do some experimenting myself.

The idea may need some fine-tuning, and the first try might not work, but it certainly wouldn't be the first cut down device that I've seen fail the first time it was tried in flight.

Barry N4MSJ

5950. Re: Channel for the second APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 16:05:12 UTC
From: k6rpt
Topic: 5947 Message: 5950

Thanks Mark, I will check out the activity on 144.36. I have a question for you, is it best put the Canon A560 in AUTO mode when running the script?

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> Many have settled on 144.36 as a second channel. NSTAR used to use
> 144.34 MHz, but that is often used as a simplex coordination channel
> for ATVers. It was used a lot by ARHAB as a way to alert ATVers that
> an ATV-equipped balloon was aloft, and is probably OK if that's the
> case. But if you're not flying an ATV payload, it's probably better
> not to use 144.34.
>
> Because the CA spectrum is so crowded, you may want to see if it's in
> regular use beforehand though. Nobody else can really 'own' it, but
> if there's a choice something else might be better in CA.
>
> 73 de Mark N9XTN
>
> On Sat, Aug 15, 2009 at 16:42, k6rpt<Ron@...> wrote:
> > I will have one APRS on 144.39. What is a good channel for the second APRS?
> >
> > -Ron K6RPT
> >
> >
>

5951. Re: [GPSL] Channel for the second APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 16:05:45 UTC
From: L. Paul Verhage
Topic: 5947 Message: 5951

Another option, and one I like, is to use 144.39 for both. That way you
don't have to switch between frequencies. This of course assumes that
144.39 isn't too crowded to start with.

Paul

On Sun, Aug 16, 2009 at 12:37 AM, Mark Conner <mconner1@...> wrote:

> Many have settled on 144.36 as a second channel. NSTAR used to use
> 144.34 MHz, but that is often used as a simplex coordination channel
> for ATVers. It was used a lot by ARHAB as a way to alert ATVers that
> an ATV-equipped balloon was aloft, and is probably OK if that's the
> case. But if you're not flying an ATV payload, it's probably better
> not to use 144.34.
>
> Because the CA spectrum is so crowded, you may want to see if it's in
> regular use beforehand though. Nobody else can really 'own' it, but
> if there's a choice something else might be better in CA.
>
> 73 de Mark N9XTN
>
> On Sat, Aug 15, 2009 at 16:42, k6rpt<Ron@...> wrote:
> > I will have one APRS on 144.39. What is a good channel for the second
> APRS?
> >
> > -Ron K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5952. RE: [GPSL] Re: Channel for the second APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 20:50:36 UTC
From: Rick von Glahn
Topic: 5947 Message: 5952

I'm sure Mark will chime in here in a second but ...

When you change the shooting mode on a 560, the menus change as well. They will be different for AV, AP, Auto etc. The script is blind and doesn't know about any hardware settings so it just moves up and down through menus the make selections.

If there is an additional menu item and it appears before a selection desired by a script, it will throw off the button presses in the script. So, it is important to use the correct hardware settings to ensure the script will be executing the correct button presses.

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> k6rpt
> Sent: Sunday, August 16, 2009 10:05 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Re: Channel for the second APRS
>
> Thanks Mark, I will check out the activity on 144.36. I have a question
> for you, is it best put the Canon A560 in AUTO mode when running the
> script?
>
> -Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
> >
> > Many have settled on 144.36 as a second channel. NSTAR used to use
> > 144.34 MHz, but that is often used as a simplex coordination channel
> > for ATVers. It was used a lot by ARHAB as a way to alert ATVers that
> > an ATV-equipped balloon was aloft, and is probably OK if that's the
> > case. But if you're not flying an ATV payload, it's probably better
> > not to use 144.34.
> >
> > Because the CA spectrum is so crowded, you may want to see if it's in
> > regular use beforehand though. Nobody else can really 'own' it, but
> > if there's a choice something else might be better in CA.
> >
> > 73 de Mark N9XTN
> >
> > On Sat, Aug 15, 2009 at 16:42, k6rpt<Ron@...> wrote:
> > > I will have one APRS on 144.39. What is a good channel for the
> second APRS?

> > >
> > > -Ron K6RPT
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.58/2306 - Release Date:
> 08/16/09 06:09:00

5953. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-16 22:23:31 UTC
From: Harry M
Topic: 5939 Message: 5953

I originally used a modified Estes igniter and a pyro cutdown. The stock Estes igniters are VERY unreliable. Electric matches used in Pyrotechnics are much more reliable, but for reasons that Mike has brought to light about the possibility of starting a grass fire or even a house or building fire, I abandoned the idea for an electric nichrome wire cutdown. Much safer!

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

5954. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 04:37:10 UTC
From: Mike Manes
Topic: 5939 Message: 5954

Thanks, Harry. Thought that might get a rise out of you!

BTW, check out the 15-minute webcam video of EOSS-145, top to bottom, that Rick edited up and posted at the bottom of the recap page. Awesome!

http://www.eoss.org/ansrecap/ar_131/recap145.htm

73 de Mike W5VSI

Harry M wrote:
>
>
> I originally used a modified Estes igniter and a pyro cutdown. The stock
> Estes igniters are VERY unreliable. Electric matches used in
> Pyrotechnics are much more reliable, but for reasons that Mike has
> brought to light about the possibility of starting a grass fire or even
> a house or building fire, I abandoned the idea for an electric nichrome
> wire cutdown. Much safer!
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5955. estes ignitors

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 13:13:34 UTC
From: K. Mark Caviezel
Topic: 5955 Message: 5955

Gang:
Several years ago, I actually tried to light an electric match with RF. I used 35W UHF, blazing away with the electric match leads spread, dipole style to absorb the RF. We tried every position possible near the whip antenna and eventually got it to light with less than 1" clearance. Several other matches were lit, all with the same very short range requirement.

So, although it is indeed possible to light an electric match with RF, it's really not possible to do it unless you are trying to make it happen.

best

- Mark ng0x

5956. Re: [GPSL] Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 16:35:44 UTC
From: Dan Wietchy
Topic: 5939 Message: 5956

Hi;
I've been looking for a nichrome wire cut-down that actually & truly works and would be interested in a working schematic and/or PCB layout. Unfortunately, all the ones I've built which were originally detailed via Nuts & Volts, or in the Near-Space white papers posted on the parallax web site site have never worked properly.

thanks
Dan (KL1JP)
BEAR Balloons - www.bear.437am.com

--- On Sun, 8/16/09, Harry M <hhm_74115@...> wrote:

From: Harry M <hhm_74115@...>
Subject: Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)
To: GPSL@yahoogroups.com
Date: Sunday, August 16, 2009, 2:23 PM

I originally used a modified Estes igniter and a pyro cutdown. The stock
Estes igniters are VERY unreliable. Electric matches used in Pyrotechnics
are much more reliable, but for reasons that Mike has brought to light
about the possibility of starting a grass fire or even a house or
building fire, I abandoned the idea for an electric nichrome wire cutdown. Much
safer!

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research
Balloons
Home Page - http://members. cox.net/hhm_ 74775/orb/
Discussion
- http://groups. yahoo.com/ group/oklahoma_ research_ balloons/ join
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5957. Re: [GPSL] Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 16:44:21 UTC
From: Joe
Topic: 5939 Message: 5957

The ones we used were the old skool home made types from High powered rockets.

It was a short piece of slow butning un sheathed thermite, attached to a old fashioned flash bulb.

The flash bulb was attached tightly to a spiral wound around the bulb of themite,

the flash too little to no power to go off and when it did it's heat was more than enough to start the thermite, and it has it's own onygen supply so works at any altitude. and the support line was just wrapped several times around the thermite and held in place with any type of tape,

then the whole ting was encased in a blob of fiberglass insulation so even if it should fire on the ground the risk of fire was minimal.

Joe WB9SBD
Near Space Sciences

Dan Wietchy wrote:

>
>
> Hi;
> I've been looking for a nichrome wire cut-down that actually & truly
> works and would be interested in a working schematic and/or PCB
> layout. Unfortunately, all the ones I've built which were originally
> detailed via Nuts & Volts, or in the Near-Space white papers posted on
> the parallax web site site have never worked properly.
>
> thanks
> Dan (KL1JP)
> BEAR Balloons - www.bear.437am.com
>
>
>
> --- On Sun, 8/16/09, Harry M <hhm_74115@...> wrote:
>
>
> From: Harry M <hhm_74115@...>
> Subject: Re: [GPSL] Radar Reflector ? (and a neat idea for a
> cut-down device as well)
> To: GPSL@yahoogroups.com
> Date: Sunday, August 16, 2009, 2:23 PM
>
>

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> I originally used a modified Estes igniter and a pyro cutdown. The
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> Pyrotechnics are much more reliable, but for reasons that Mike has
> brought to light about the possibility of starting a grass fire or
> even a house or building fire, I abandoned the idea for an
> electric nichrome wire cutdown. Much safer!
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members. cox.net/hhm_ 74775/orb/
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> balloons/ join
> <http://groups.yahoo.com/group/oklahoma_research_balloons/join>
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.409 / Virus Database: 270.13.58/2309 - Release Date: 08/17/09 06:08:00
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5958. Re: [GPSL] Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 16:51:28 UTC
From: L. Paul Verhage
Topic: 5939 Message: 5958

Is that one of my designs you've had a problem with?

My class will be makinig PCBs shortly, I could make a PCB for you to work with. I may also have a cutdown to send you with a digital stop watch attached. It's been flown twice.

Paul

On Mon, Aug 17, 2009 at 11:44 AM, Joe <nss@...> wrote:

>
>
> The ones we used were the old skool home made types from High powered
> rockets.
>
> It was a short piece of slow butning un sheathed thermite, attached to a
> old fashioned flash bulb.
>
> The flash bulb was attached tightly to a spiral wound around the bulb of
> themite,
>
> the flash too little to no power to go off and when it did it's heat was
> more than enough to start the thermite, and it has it's own onygen supply so
> works at any altitude. and the support line was just wrapped several times
> around the thermite and held in place with any type of tape,
>
> then the whole ting was encased in a blob of fiberglass insulation so even
> if it should fire on the ground the risk of fire was minimal.
>
> Joe WB9SBD
> Near Space Sciences
>
> Dan Wietchy wrote:
>
> Hi;
> I've been looking for a nichrome wire cut-down that actually & truly works
> and would be interested in a working schematic and/or PCB layout.
> Unfortunately, all the ones I've built which were originally detailed via
> Nuts & Volts, or in the Near-Space white papers posted on the parallax web
> site site have never worked properly.
>
> thanks
> Dan (KL1JP)
> BEAR Balloons - www.bear.437am.com
>
>

>
> --- On *Sun, 8/16/09, Harry M <hhm_74115@...> <hhm_74115@...>*wrote:
>
>
> From: Harry M <hhm_74115@...> <hhm_74115@...>
> Subject: Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down
> device as well)
> To: GPSL@yahoogroups.com
> Date: Sunday, August 16, 2009, 2:23 PM
>
>
>
> I originally used a modified Estes igniter and a pyro cutdown. The stock
> Estes igniters are VERY unreliable. Electric matches used in Pyrotechnics
> are much more reliable, but for reasons that Mike has brought to light
> about the possibility of starting a grass fire or even a house or building
> fire, I abandoned the idea for an electric nichrome wire cutdown. Much
> safer!
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members. cox.net/hhm_
74775/orb/<http://members.cox.net/hhm_74775/orb/>
> Discussion - http://groups. yahoo.com/ group/oklahoma_ research_ balloons/
> join <http://groups.yahoo.com/group/oklahoma_research_balloons/join>
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.58/2309 - Release Date: 08/17/09 06:08:00
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Onwards and Upwards,
Paul

5959. Re: [GPSL] Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 17:55:39 UTC
From: Dan Wietchy
Topic: 5939 Message: 5959

Hi Paul;

Actually, yes it was. I copied your original schematic but never could get it to work. I'll absolutely take you up on your offer. I'd love to have a working pcb together with an attached stopwatch (if you can find that too) so I can see how these cut-downs are suppose to work. US Mail works the best up here.

Interesting idea below about thermite. I wonder if anyone has experimented with those very small legacy flashbulbs. I think they were about 1/2 inch and composed of heavy duty plastic. Cut the top off of the flashbulb and ignite it with a short 6V change. Upon firing, I remember them generating enough heat to melt and expand the plastic top.

Thanks very MUCH for your offer of help.

cheers
Dan

Dan Wietchy KL1JP
PO Box 60472
Fairbanks, Alaska 99706

--- On Mon, 8/17/09, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Nichrome Wire Cutdowns
To: GPSL@yahoogroups.com
Date: Monday, August 17, 2009, 8:51 AM

Is that one of my designs you've had a problem with?

My class will be makinig PCBs shortly, I could make a PCB for you to work with. I may also have a cutdown to send you with a digital stop watch attached. It's been flown twice.

Paul

On Mon, Aug 17, 2009 at 11:44 AM, Joe <nss@...> wrote:

The ones we used were the old skool home made types from High powered rockets.

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Joe WB9SBD
Near Space Sciences

Dan Wietchy wrote:

Hi;
I've been looking for a nichrome wire cut-down that actually & truly works and would be interested in a working schematic and/or PCB layout. Unfortunately, all the ones I've built which were originally detailed via Nuts & Volts, or in the Near-Space white papers posted on the parallax web site site have never worked properly.

thanks
Dan (KL1JP)
BEAR Balloons - www.bear.437am. com

--- On Sun, 8/16/09, Harry M <hhm_74115@cox. net> wrote:

From: Harry M <hhm_74115@cox. net>
Subject: Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

To: GPSL@yahoogroups. com
Date: Sunday, August 16, 2009, 2:23 PM

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Harry Mueller - KC5TRB - Tulsa
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Home Page - http://members. cox.net/hhm_ 74775/orb/
Discussion - http://groups. yahoo.com/ group/oklahoma_ research_ balloons/ join

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5960. Re: [GPSL] Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-17 19:36:41 UTC
From: James Hannon
Topic: 5939 Message: 5960

Many years ago I visited NOAA in Bolder where they had an exhibit of their long duration balloon equipment. This setup was to stay up as long as possible and go wherever the winds took it. They could not get permission to overfly all of the countries in the northern hemisphere so they had a sensor that detected the tilt of the earths magnetic field. If the tilt indicated they were in the northern hemisphere an scr was fired that heated up a standard 1/2 watt carbon comp resistor. The support lines for the package were monofilament fishing line tied around the resistor. Heating the resistor melted the lines.
The overall construction of the electronics was also quite interesting. They used very thin PCB material for the circuits which were then rolled up inside styrofoam tubes.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXLYour email settings: Individual Email|Traditional Change settings via the Web (Yahoo! ID required)
Change settings via email: Switch delivery to Daily Digest | Switch to Fully FeaturedVisit Your Group | Yahoo! Groups Terms of Use | Unsubscribe

5961. Re: Nichrome Wire Cutdowns

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-18 14:14:50 UTC
From: Dave
Topic: 5939 Message: 5961

--- In GPSL@yahoogroups.com, Dan Wietchy <powellite52@...> wrote:
>
> Hi Paul;
>
>
> Actually, yes it was.ï¿½ I copied your original schematic but never could
> get it to work.ï¿½ I'll absolutely take you up on your offer.ï¿½ I'd love
> to have a working pcb together with an attached stopwatch (if you can find that too) so I
can
> see how these cut-downs are suppose to work. US Mail works the best up here.
>
> Interesting idea below about thermite.ï¿½ I wonder if anyone has experimented with those
very small legacy flashbulbs.ï¿½ I think they were about 1/2 inch and composed of heavy
duty plastic.ï¿½ Cut the top off of the flashbulb and ignite it with a short 6V change.ï¿½
Upon firing, I remember them generating enough heat to melt and expand the plastic top.

Most of the old flash bulbs were composed of fine gauge Magnesium wire
in an Oxygen atmosphere (Later, Zirconium was substituted for the
Magnesium.). The envelope consists of glass, with a plastic cover. The
plastic cover serves two purposes. The first purpose is that it prevents
glass shards from being thrown out if the bulb happens to shatter during
firing. The second is that it improves the colour balance of the bulb.

http://en.wikipedia.org/wiki/Flash_photography#Flash_bulbs

The problem, though, is that it's getting very difficult to find flash bulbs
now. According to my information, there's only one company that still
makes flash bulbs, and they're located in Ireland (Meggaflash), and their
products aren't cheap. There are still some NOS bulbs available, but
the prices have went up over the years.

> Thanks very MUCH for your offer of help.
>
> cheers
> Dan
>
> Dan Wietchyï¿½ KL1JP
> PO Box 60472
> Fairbanks, Alaskaï¿½ 99706

Dave

5962. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-19 18:01:21 UTC
From: Harry M
Topic: 5939 Message: 5962

Hi Mike,

I just got a chance to look at the 145 recap videos. Great stuff! Congrats to all that made it happen.

73 Harry KC5TRB

> BTW, check out the 15-minute webcam video of EOSS-145, top to bottom, that Rick edited up and posted at the bottom of the recap page. Awesome!

5963. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-20 09:52:15 UTC
From: Barry L. Lankford
Topic: 5939 Message: 5963

Harry M wrote:
> I originally used a modified Estes igniter and a pyro cutdown. The stock
> Estes igniters are VERY unreliable. Electric matches used in
> Pyrotechnics are much more reliable, but for reasons that Mike has
> brought to light about the possibility of starting a grass fire or even
> a house or building fire, I abandoned the idea for an electric nichrome
> wire cutdown. Much safer!
>
> 73 Harry
>

Hi Harry and Mike,

Please provide more details.

In what way were the Estes igniters unreliable? And how did you use them? Sealed in a tube like the idea in the link I provided? Or did you just attach them directly to the load line? What about the ideas I advanced concerning mitigating the fire hazard? I'm not trying to start a flame war, just trying to engage in a little intelligent discourse.

Sorry, but if inventors just gave up whenever someone else said "don't bother, it won't work" without giving any evidence of "why not," we'd all still be traveling overseas in wooden sailing ships. Judging from posts to this forum, electric nichrome wire cutdown devices apparently aren't entirely reliable either, and e-matches aren't so sensitive to RF, so maybe the pyro cutdown idea still deserves some consideration.

You don't think a little shielding would obviate the chance of starting a grass fire? Or assuring it gets fired at altitude via a timer or flight computer? As for a house or building fire, come on now -- give me a break! Maybe if an unshielded e-match went off in very DRY grass, and if the grass set some brush on fire and if the brush set a forest on fire and if the forest set the house on fire. Lots of if's. And easily avoided (shield the device, don't fly it when the area is ripe for brush fires and make sure the flight computer attempts to fire it several times at altitude). Maybe it'd be a difficult call for some areas of the country (that probably should never have even been populated in the first place), but it'd be safer than smoking I'd think.

The thread describing the use of a ball of thermite gobbed onto an opened up flashbulb sounds truly scary. I can see something like that setting off a fire even in a steel mill. I ran across a link for a source of AG1 flashbulbs (jellybean sized), but I won't include it here to avoid what seems to me to be an irresponsible use of them. Besides, they're expensive

now, even more so than e-matches.

I can see why Estes igniters would be fragile and unreliable (as to whether or not it fires reliably). The bridgewire seems to be very short and unsupported by anything more than a piece of tape across the leads and the pyrogen coating. Any flexure of the bridgewire could cause the pyrogen to crack and break the wire. If I remember correctly Estes uses a considerably heavier bridgewire than do most e-matches, requiring more current for a longer period of time to fire them. This would make the balloon-borne firing circuit heavier. Here's a drawing from Estes:

> http://www.esteseducator.com/content/igniter.php

Other brands of amateur rocketry igniters (Quest for example) seem to be only slightly better made. I'd hoped they would be better made by now, but I suspect most really serious rocketeers use DIY e-matches.

Even so, if you put one of the Estes igniters inside a plastic tube (carefully -- and possibly add a little more pyro material in with it), epoxy the ends of the tube, then test the continuity of the igniter with a low current ohmeter after the epoxy sets, I'd think the tube and epoxy would provide good protection of the igniter, insuring that the bridgewire doesn't flex and break in use. So I suspect the idea of using an Estes igniter in a cutdown device still has some possibilities.

However, upon closer examination of the photo in the link I originally provided, it is clearly apparent the UK guy used an electric match, and I believe this would be the way to go. You can see the dark pyrogen at the left end of the match and the uncoated part of the chip where the shooters wire is soldered to the right. That link again:

> http://wiki.ukhas.org.uk/ideas:flight_support#pyrotechnic_cutdown_device

AFAIK you have to have a BATFE permit to purchase finished e-matches, but you can buy the unfinished materials (three containers of chemicals to mix to make a pyrogen dip and the match chips with pre-soldered bridgewires) to make your own without a permit or hazmat shipping costs and difficulties.

Making DIY e-matches would also have the advantage of allowing them to be made with just the right amount of pyrogen on each match to generate sufficient gas to insure the tube shatters reliably but avoiding making a device that could be a significant fire hazard. Unfortunately it isn't exactly inexpensive to go that route to make up a few to test to prove a point. The kits would cost about $65+ plus shipping, but that would make 50 e-matches with a lot of pyrogen left over. So, the cost is very reasonable if they work as a cutdown device, and if you're making them to use fairly frequently, but not just for a one-off test. The links:

> http://www.aeroconsystems.com/electronics/nichrome.htm#hothead
> http://www.aeroconsystems.com/electronics/electric%20match%20making/matchmaking.htm
> http://www.skylighter.com/mall/ignition.asp#GN5051

E-matches are also manufactured in a way that provides for repeatable min and max fire current and resistance characteristics, allowing for safe pre-flight testing for continuity and shorts.

I once had an idea for a lightweight, purely mechanical release utilizing a toggle mechanism to greatly reduce the energy required to cause it to release, but it would've been tedious to produce it in a home workshop. This "e-match in a sealed tube" idea seems like a much easier thing to refine and reproduce.

Jason KG4WSV came up with a mechanical release utilizing a slightly modified bow release that seemed to pretty much duplicate my toggle mechanism idea, and it has the advantage of being something you can buy off the shelf. So I never got past the point of making a large-scale cardboard model of my mechanism.

If you want to discuss this topic more thoroughly but would prefer to take it off-list, that'd be OK with me.

Barry N4MSJ

5964. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-20 14:21:15 UTC
From: Joe
Topic: 5939 Message: 5964

Barry L. Lankford wrote:

>
>The thread describing the use of a ball of thermite gobbed onto an opened
>up flashbulb sounds truly scary. I can see something like that setting off
>a fire even in a steel mill. I ran across a link for a source of AG1
>flashbulbs (jellybean sized), but I won't include it here to avoid what
>seems to me to be an irresponsible use of them. Besides, they're expensive
>now, even more so than e-matches.
>
>
>
It was not an opened flashbulb, and the thermite is standard issue for
high power rocket ignighters around here as well as using the flash bulb
to ignite it.

The thermite it wrapped a few times around the bulb, and tapped tight,
the payload line then is wrapped around a stub of the thermite left over
(couple inches)

and thats it, it is then wrapped in some plain fiberglass.

When used I wouldn't even think twice about holding it in my hand, if it
wasn't for a bit of smoke that escaped the fiberglass, you'd never even
know anything happened. it doesn't even get a detectable amount of
warmth at all.

if anything it's far safer than some of the bare systems I have been
seeing here so far.

Joe

5965. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-20 18:43:36 UTC
From: Harry M
Topic: 5939 Message: 5965
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Barry,

Just to give you some background on me so you understand where my comments come from. I was a Firefighter for 27 years, I was involved in High Power Rocketry, I worked in pyrotechnics for many years in the development of formularies and Class A,B & C explosive devices for fireworks displays.

If you decide to pursue the pyro cutdown and acquiring materials I would strongly suggest checking your local, state & federal regulations. Although it may be legal to make devices, more than likely you will run into regulations regarding the storage and transportation of such. You should also acquire some education on pyrotechnics both for you and your families safety. To many "backyard pyros" have suffered from their lack of education.

I won't discuss the how-to's of pyro on the web. There are legal ramifications that I choose to avoid!

Estes igniters are unreliable in the fact that they are very cheaply made and are fragile. Anyone that has ever launched model rockets can tell you how many times Estes igniters fail.

The nichrome device is much more reliable. I use it from one flight to the next with no more prep than running the load line back through the nichrome coil. No muss no fuss!

Mike has come up with a really great mechanical device for cutdown. It is very reliable! Your turn Mike... :)

73 Harry KC5TRB
"Stay Green"

5966. Re: Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-20 20:57:38 UTC
From: nstich48
Topic: 5939 Message: 5966

Barry N4MSJ,

I have had good luck using the defy gravity teher as a cut down device. It works just as well at 90K for a balloon as it does in my rocket at 6K.

http://www.defyg.com/tether.html

Best Regards,
Nick Stich
K0NMS

5967. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-21 02:44:38 UTC
From: Mike Manes
Topic: 5939 Message: 5967

Anyone who's tried to "serve" the end of a nylon line using a lighter
knows that nylon sustains a flame quite nicely once ignited, and that
flame will propagate down the line. It's safer to melt the line at
a temperature well below the ignition point using the NiCr coil that's
worked so well for many of us.

73 de Mike W5VSI, EOSS

Barry L. Lankford wrote:
> Mike Manes wrote:
>> [snipped]
>> One caveat re pyrotechnic cutdown devices it that they can ignite a
>> grass fire if they go off after landing. And making your firing
>> circuit TOO sensitive in the presence of strong RF, like from a
>> 50W mobile rig, could set it off accidentally.
>>
>> 73 de Mike W5VSI
>>
>
> I know the cut down device wasn't the main subject of this thread, but I
> don't think this idea should be dismissed too quickly.
>
> I went through my amateur rocketry phase before Estes and others started
> making commercial rocket motors and ignitors, but from what I've seen more
> recently at public rocket launch events, I don't picture a modern rocket
> ignitor as a highly explosive device. I think of them as being more like
> an electrically ignited match that, once ignited, flares into a small flame
> that only burns for a few moments (since there's no matchstick to ignite).
>
> The separation of the cut down device is caused by the fact that the
> ignitor is sealed gas-tight inside a frangible plastic tube that is sealed
> at each end with epoxy. The generated gas overpressurizes the tube
> shattering it. Granted most ignitable materials of that type burn much
> faster if the pressure increases inside a sealed container, but there's
> still such a limited amount of the ignitable material that the fire would
> probably be mostly over when the plastic tube shatters. Amateur rocketry
> materials are federally regulated, and with product liability risks being
> what they are, a lot of development has gone into making them reasonably
> safe when used with some degree of responsibility.
>
> I imagine the risk of setting a grass/brush fire, if the device was somehow
> to be fired after landing, could easily be minimized to an insignificant
> risk by taking a few simple precautions. Some that immediately come to
> mind are: 1) a "blast shield" of thin aluminum, maybe even ordinary foil,

> could be wrapped loosely around the mechanism; and 2) if a flight computer
> is available instead of just a simple RF command decoder, it could be
> programmed such that, if a manual fire command isn't received to ignite the
> cut-down device at altitude, the computer could send a fire command at any
> time after a sustained period of descent is detected, i.e., after the
> balloon has burst. Other parameters could be incorporated to initiate an
> automatic cut down before landing, such as attainment of a desired
> altitude, or exceeding a preset distance downrange, in other words, the
> usual reasons for having a cut down device. All would prevent the device
> from firing after landing.
>
> I wouldn't consider the device to be "too sensitive" as a significantly
> large amount of energy is still required to fire it. The advantage is that
> a large battery isn't required to sustain a long period of heating to, say,
> melt the payload line with a heated nichrome wire. The firing circuit is
> very similar to "BC" (Battery/Capacitor) flashguns that used to be used to
> fire one-time flashbulbs for flash photography a few decades ago.
>
> These ignitors are used to fire rockets that, more and more often, have
> onboard telemetry transmitters and have as much likelihood of being near a
> 50W mobile rig as an ARHAB balloon does. As always, proper design
> (shielding, twisted-pair wiring, bypassing, "safing" shunts, etc.) should
> be a foremost consideration. They should be extremely safe to transport,
> even in quantity, by keeping the ignitor leads shorted until ready for use,
> and the whole firing circuit/flight computer setup can be easily tested by
> putting a 6V low wattage bulb in place of the ignitor and operating the
> test article in an RF environment similar to what might be encountered at
> the launch site and in flight.
>
> The author of the article stated he has tested the devices successfully at
> low temps (-30C) and in a vacuum chamber (unknown value), but the article
> doesn't state that it has actually been used in flight. Also, since the
> ends of the shattered tube would likely remain attached to the ends of the
> flight train line, I wouldn't recommend use in a situation where the
> severed line end has to pass through something like a ring, although the
> tube attachment could probably be made smoothly tapered such that the
> likelihood of catching on a ring or other opening would be very low.
>
> I like the idea that they are extremely lightweight, cheap and easy to make
> and the materials are available almost anywhere (I think you can even buy
> the ignitors at Walmart and BIC pen barrels might even serve as the plastic
> tube for lightweight payloads). The fact that the ignitors are
> manufactured to a highly controlled degree of repeatability, should make
> the finished cut down device extremely reliable. I may make some and do
> some experimenting myself.
>
> The idea may need some fine-tuning, and the first try might not work, but
> it certainly wouldn't be the first cut down device that I've seen fail the
> first time it was tried in flight.
>

> Barry N4MSJ
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5968. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-21 08:00:04 UTC
From: Barry L. Lankford
Topic: 5939 Message: 5968

Mike Manes wrote:
> Anyone who's tried to "serve" the end of a nylon line using a lighter
> knows that nylon sustains a flame quite nicely once ignited, and that
> flame will propagate down the line. It's safer to melt the line at a
> temperature well below the ignition point using the NiCr coil that's
> worked so well for many of us.
>
> 73 de Mike W5VSI, EOSS
>

Guys, all I'm asking for here is an intelligent discourse on this subject with constructive criticism of REAL problems, and maybe even a bit of open-mindedness as well (you know, like real scientists do). Are you interested in doing that?

Can I contribute to such a discourse? I think so. I've lived and ENGINEERED in Huntsville, Alabama for over 40 years and we *DO* know a little bit about rockets and space here. In fact, I can honestly say that I "lit the fuses" for the biggest damn rockets you've ever seen, and if you've lived on this planet for a few years I'm sure you've seen them on TV.

It almost sounds as if you didn't pay a lot of attention to how the UK guy's pyro cutdown device actually works. I'll describe it once more: A very small pyro device (minimally coated e-match) is sealed inside a very short piece of a hard plastic tube that is sealed at both ends. The pyro fires, generating a small amount of gas that, because of the very small volume inside the tube, quickly overpressurizes it and shatters the tube. The load line is not continuous. It is in two pieces attached to the ends of the tube which serves as a link between the two pieces until the link is shattered by the pyro charge.

The nylon cord isn't inside the chamber where the pyro burns, and the cord doesn't have to be anywhere near the device at all. You could keep it entirely separate with a short wire link if you're really all that worried about it.

If the tube itself were to ignite, I suspect the sudden release of the pent-up gases would "blow" any remaining flame out. Even so, I'd probably loosely wrap the whole thing in a non-flammable material, such as fiberglass insulation or even a couple layers of aluminum foil.

Finally, nylon cord really doesn't burn all that well. I just did some trials to confirm my recollection about my experiences with serving nylon cord. I tried it with three sizes from very light cord (about 1/16") to

fairly heavy (about 3/16"). I held the end of the cord in the hottest part of the flame of a propane torch a second or two. It melted and looked like it might be burning. I took it out of the torch flame, it had flame on the melted ball of nylon but then the flame went out in less than a second.

I held it in the flame longer, maybe five seconds. It did burn for 3 or 4 more seconds and a drop of melted nylon dripped from it, then the cord went out. The drop was flaming when it started to fall, but that went out before it hit the bench top that was about 6" inches below the cord.

I tried several variations to try to get more prolonged flame. It takes quite a bit of effort to get the flame started, and even then the least little thing will cause it to go out. I really thought I had it going for good one time, but after it dripped 4 times it went out. In fact, the dripping of the molten nylon often removes enough heat from the fire to put it out.

If you hold it vertically, a method frequently used to test for flammability of materials, you can achieve a sustained flame, but that means VERY vertical as the flame has to envelope the cord to pre-heat the cord above the actual flame. Often the tendency of the unweighted cord to curl up on itself is enough to keep it from being vertical. Even then there's a tendency for dripping nylon to remove enough heat to make the flame very tenuous.

Now, I've also used another type of cord that if memory serves, burned a bit more vociferously. I think it was a linear polypropylene cord covered by a braided nylon jacket. It might be best to avoid that kind.

If you really want to flog this dead horse some more, I might suggest you look into flame retardant solutions that fabrics and cords can be dipped into.

But let's face it. We're grasping at straws here. The chances of this incredible string of malfunctions (and really bad luck) setting a fire of any consequence is starting to look like much less of a risk than that of conking some innocent citizen on the head with your falling payload. And it even requires some really bad engineering to boot.

In recent posts I've stated over and over several things that can be done to insure that the cutdown device never fires anywhere near the ground, and how to shield it even if it did. Yet all this seems to have been completely ignored in order to perpetuate this "danger" of a hypothetical ground fire. As far as I'm concerned this line of casting doubt has run its course to the point of being absolutely ludicrous.

Is there a risk? Sure. There's ALWAYS some risk in every action (or even inaction) that one does. But is it realistic? I don't think so.

BTW, I think you're also wildly over-pessimistic regarding the risk of inadvertent ignition of the e-match by RF. This seems to be supported by Mark's tests as well. To wit (8/17/2009):

> Gang:
>
> Several years ago, I actually tried to light an electric match with RF.
> I used 35W UHF, blazing away with the electric match leads spread,
> dipole style to absorb the RF. We tried every position possible near
> the whip antenna and eventually got it to light with less than 1"
> clearance. Several other matches were lit, all with the same very short
> range requirement.
>
> So, although it is indeed possible to light an electric match with RF,
> it's really not possible to do it unless you are trying to make it
> happen.
>
> best
>
> - Mark ng0x
>

So, are we done with the exaggerated dangers and desperate attempts of justification? Do you have anything positive to contribute? Can we get over this pissing contest and steer this discussion in a more constructive direction?

In the spirit of cooperation, I'll start things off: I was thinking that the plastic tube needs to be hard but not extremely "tough." It has to be strong enough to stay intact while supporting the weight of the payload train, but it also has to shatter and not just split open, or worse yet, contain and withstand the gas pressure. So, I'd think you'd want something stronger than, say, polystyrene but not as tough as Lexan (polycarbonate) nor as soft or flexible as nylon or vinyl. What's in between? One thing I don't know a whole lot about is plastics. The first thing that comes to mind is Plexiglas (acrylic PMMA), but maybe a thermosetting plastic would be better. Maybe phenolic (without embedded fabric). I doubt you'd have to worry about phenolic catching fire at least, but plexiglas tube would probably be easier to find.

Ballooning can always use another reliable cutdown device.

Barry N4MSJ

>> Mike Manes wrote:
>>> [snipped] One caveat re pyrotechnic cutdown devices it that they can
>>> ignite a grass fire if they go off after landing. And making your
>>> firing circuit TOO sensitive in the presence of strong RF, like from
>>> a 50W mobile rig, could set it off accidentally.
>>>
>>> 73 de Mike W5VSI
>>>

5969. Re: [GPSL] Re: Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-21 09:08:17 UTC
From: Barry L. Lankford
Topic: 5939 Message: 5969

nstich48 wrote:
> Barry N4MSJ,
>
> I have had good luck using the defy gravity teher as a cut down device.
> It works just as well at 90K for a balloon as it does in my rocket at
> 6K.
>
> http://www.defyg.com/tether.html
>
> Best Regards, Nick Stich K0NMS
>
>
Thanks for that link, Nick. The Tether is an interesting device, and I enjoyed watching the movie of it firing, in fact I re-watched it several times. I have to admit that at first I thought the metallic colored link with the two large holes was one part, and I couldn't at first see how anything would get separated. Then I saw a view that showed that it was actually two pieces, and I had that "Aha!" moment. BTW I've used those rubber blind fastener devices (that seals the backside of the combustion cup) for attaching padeyes to parts of my kayak where I can't get to the back side. I was trying to remember what the "official" name was of that rubber thing (like what you'd ask for if you wanted to go to a fastener dealer to buy one), but it escapes me at the moment.

I'm mostly looking into this plastic tube cutdown device as a mental exercise. Although trained as an electrical engineer, I realized early in my life that I seemed to have a knack with mechanical gadgets as well, so I enjoy inventing things, and feel that a brain that's exercised is a brain that grows stronger. That's why I may continue to pursue the idea even though I probably won't ever use one myself. Even though there are other solutions to the problem, it never hurts to continue to think up new ways to do the job.

See:
> http://www.youtube.com/watch?v=CmYDgncMhXw

Thanks,
Barry N4MSJ

5970. GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-23 22:10:56 UTC
From: L. Paul Verhage
Topic: 5728 Message: 5970

I haven't heard anything yet and wanted to make sure my message got out.

We're looking for a host for GPSL 2010. We can get a poly balloon demo in 2010 and it's recommended we launch in the weat Texas, east New Mexico region because of the lack of air traffic.

Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?

--
Onwards and Upwards,
Paul

5971. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-23 22:44:18 UTC
From: Mark Conner
Topic: 5728 Message: 5971

I doubt I will be ablet to participate in a Texas-based GPSL. A
little too far and too much of a corresponding time commitment to make
that drive.

Overall, west Texas may be more suitable for the recoveries most of us
are used to. Lots of dense woods in east Texas. I like those
three-minute hikes to get to the payload. West Texas may be more of a
hike from the road, but shouldn't require a chainsaw.

- Mark

On Sun, Aug 23, 2009 at 17:10, L. Paul Verhage<nearsys@...> wrote:
>
>
> I haven't heard anything yet and wanted to make sure my message got out.
>
> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
> 2010 and it's recommended we launch in the weat Texas, east New Mexico
> region because of the lack of air traffic.
>
> Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

5972. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-23 23:58:50 UTC
From: Zack Clobes
Topic: 5728 Message: 5972

I'm willing to host again in Hutch if people want to venture back for a 3rd time. We don't have much in the way of exciting manufacturing around here, but we could formalize something at the Cosmosphere.

As for Texas, I'm trying to keep my options open, but I'm not sure if I'd be able to make that either - it would just depend on when the date fell.

Zack Clobes, W0ZC
Project: Traveler

On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I haven't heard anything yet and wanted to make sure my message got out.
>
> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
> 2010 and it's recommended we launch in the weat Texas, east New Mexico
> region because of the lack of air traffic.
>
> Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?
>
> --
> Onwards and Upwards,
> Paul
>
>

5973. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 02:09:43 UTC
From: Roger Hammond
Topic: 5728 Message: 5973

We wouldn't make the trek to Texas, but would likely make it if it were in Hutchinson.
Thanks for offering Zack.

Rog KC0MWM
CNNSP

On Sun, Aug 23, 2009 at 6:58 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I'm willing to host again in Hutch if people want to venture back for a 3rd
> time. We don't have much in the way of exciting manufacturing around here,
> but we could formalize something at the Cosmosphere.
>
> As for Texas, I'm trying to keep my options open, but I'm not sure if I'd
> be able to make that either - it would just depend on when the date fell.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>
> On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> I haven't heard anything yet and wanted to make sure my message got out.
>>
>> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
>> 2010 and it's recommended we launch in the weat Texas, east New Mexico
>> region because of the lack of air traffic.
>>
>> Is anyone interested in hosting GPSL 2010? What if it was held
>> elsewhere?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
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>

5974. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 04:21:57 UTC
From: Mike Manes
Topic: 5728 Message: 5974

A launch from E NM with strong upper easterlies could put payloads down
in an Indian reservation, which could make for recovery difficulties.
ANSR has run into this before.
73 de Mike W5VSI

Mark Conner wrote:
> I doubt I will be ablet to participate in a Texas-based GPSL. A
> little too far and too much of a corresponding time commitment to make
> that drive.
>
> Overall, west Texas may be more suitable for the recoveries most of us
> are used to. Lots of dense woods in east Texas. I like those
> three-minute hikes to get to the payload. West Texas may be more of a
> hike from the road, but shouldn't require a chainsaw.
>
> - Mark
>
> On Sun, Aug 23, 2009 at 17:10, L. Paul Verhage<nearsys@...> wrote:
>>
>> I haven't heard anything yet and wanted to make sure my message got out.
>>
>> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
>> 2010 and it's recommended we launch in the weat Texas, east New Mexico
>> region because of the lack of air traffic.
>>
>> Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

5975. Orbital skydives to follow inflatable heatshield success? • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 04:49:54 UTC
From: Mike Manes
Topic: 5975 Message: 5975

How to beat Joe Kittenger's record - the expensive way! But it still
uses a balloon.
73 de Mike W5VSI

http://www.theregister.co.uk/2009/08/20/nasa_inflatable_heat_shield_test/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5976. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 05:08:19 UTC
From: Mike Manes
Topic: 5939 Message: 5976

Thanks for the description of the UK's release device. It sounds more like an explosive than a pyrotechnic device, which would certainly present a negligible risk of fire. In fact, I built and successfully flew a similar device on EOSS-5. It used 1 gram(?) of shotgun powder inside a horizontal brass tube with two snug-fitting dowels closing off each end and extending past the ends of the tube far enough to tie on a Y-harness going up to the balloon, and the center of the tube was secured to the top of the parachute. The powder was ignited using an Estes rocket ignitor. Despite having demonstrated it at arms length at a meeting, the EOSS membership vetoed the scheme as more dangerous than the NiCr line melter.

Harry's got a video of his rocket-fuel based pyro release, and it clearly emits a brief visible flame that could ignite bone-dry field grasses that have characterized our landing sites up until this rather wet summer. Maybe he could send you the .wmv?

73 de Mike W5VSI

Barry L. Lankford wrote:
> Mike Manes wrote:
>> Anyone who's tried to "serve" the end of a nylon line using a lighter
>> knows that nylon sustains a flame quite nicely once ignited, and that
>> flame will propagate down the line. It's safer to melt the line at a
>> temperature well below the ignition point using the NiCr coil that's
>> worked so well for many of us.
>>
>> 73 de Mike W5VSI, EOSS
>>
>
> Guys, all I'm asking for here is an intelligent discourse on this subject
> with constructive criticism of REAL problems, and maybe even a bit of
> open-mindedness as well (you know, like real scientists do). Are you
> interested in doing that?
>
> Can I contribute to such a discourse? I think so. I've lived and
> ENGINEERED in Huntsville, Alabama for over 40 years and we *DO* know a
> little bit about rockets and space here. In fact, I can honestly say that
> I "lit the fuses" for the biggest damn rockets you've ever seen, and if
> you've lived on this planet for a few years I'm sure you've seen them on
> TV.
>
> It almost sounds as if you didn't pay a lot of attention to how the UK
> guy's pyro cutdown device actually works. I'll describe it once more: A
> very small pyro device (minimally coated e-match) is sealed inside a very

> short piece of a hard plastic tube that is sealed at both ends. The pyro
> fires, generating a small amount of gas that, because of the very small
> volume inside the tube, quickly overpressurizes it and shatters the tube.
> The load line is not continuous. It is in two pieces attached to the ends
> of the tube which serves as a link between the two pieces until the link is
> shattered by the pyro charge.
>
> The nylon cord isn't inside the chamber where the pyro burns, and the cord
> doesn't have to be anywhere near the device at all. You could keep it
> entirely separate with a short wire link if you're really all that worried
> about it.
>
> If the tube itself were to ignite, I suspect the sudden release of the
> pent-up gases would "blow" any remaining flame out. Even so, I'd probably
> loosely wrap the whole thing in a non-flammable material, such as
> fiberglass insulation or even a couple layers of aluminum foil.
>
> Finally, nylon cord really doesn't burn all that well. I just did some
> trials to confirm my recollection about my experiences with serving nylon
> cord. I tried it with three sizes from very light cord (about 1/16") to
> fairly heavy (about 3/16"). I held the end of the cord in the hottest part
> of the flame of a propane torch a second or two. It melted and looked like
> it might be burning. I took it out of the torch flame, it had flame on the
> melted ball of nylon but then the flame went out in less than a second.
>
> I held it in the flame longer, maybe five seconds. It did burn for 3 or 4
> more seconds and a drop of melted nylon dripped from it, then the cord went
> out. The drop was flaming when it started to fall, but that went out
> before it hit the bench top that was about 6" inches below the cord.
>
> I tried several variations to try to get more prolonged flame. It takes
> quite a bit of effort to get the flame started, and even then the least
> little thing will cause it to go out. I really thought I had it going for
> good one time, but after it dripped 4 times it went out. In fact, the
> dripping of the molten nylon often removes enough heat from the fire to put
> it out.
>
> If you hold it vertically, a method frequently used to test for
> flammability of materials, you can achieve a sustained flame, but that
> means VERY vertical as the flame has to envelope the cord to pre-heat the
> cord above the actual flame. Often the tendency of the unweighted cord
> to curl up on itself is enough to keep it from being vertical. Even then
> there's a tendency for dripping nylon to remove enough heat to make the
> flame very tenuous.
>
> Now, I've also used another type of cord that if memory serves, burned a
> bit more vociferously. I think it was a linear polypropylene cord covered
> by a braided nylon jacket. It might be best to avoid that kind.
>
> If you really want to flog this dead horse some more, I might suggest you

> look into flame retardant solutions that fabrics and cords can be dipped into.
>
> But let's face it. We're grasping at straws here. The chances of this
> incredible string of malfunctions (and really bad luck) setting a fire of
> any consequence is starting to look like much less of a risk than that of
> conking some innocent citizen on the head with your falling payload. And
> it even requires some really bad engineering to boot.
>
> In recent posts I've stated over and over several things that can be done
> to insure that the cutdown device never fires anywhere near the ground, and
> how to shield it even if it did. Yet all this seems to have been
> completely ignored in order to perpetuate this "danger" of a hypothetical
> ground fire. As far as I'm concerned this line of casting doubt has run
> its course to the point of being absolutely ludicrous.
>
> Is there a risk? Sure. There's ALWAYS some risk in every action (or even
> inaction) that one does. But is it realistic? I don't think so.
>
> BTW, I think you're also wildly over-pessimistic regarding the risk of
> inadvertent ignition of the e-match by RF. This seems to be supported by
> Mark's tests as well. To wit (8/17/2009):
>
>> Gang:
>>
>> Several years ago, I actually tried to light an electric match with RF.
>> I used 35W UHF, blazing away with the electric match leads spread,
>> dipole style to absorb the RF. We tried every position possible near
>> the whip antenna and eventually got it to light with less than 1"
>> clearance. Several other matches were lit, all with the same very short
>> range requirement.
>>
>> So, although it is indeed possible to light an electric match with RF,
>> it's really not possible to do it unless you are trying to make it
>> happen.
>>
>> best
>>
>> - Mark ng0x
>>
>
> So, are we done with the exaggerated dangers and desperate attempts of
> justification? Do you have anything positive to contribute? Can we get
> over this pissing contest and steer this discussion in a more constructive
> direction?
>
> In the spirit of cooperation, I'll start things off: I was thinking that
> the plastic tube needs to be hard but not extremely "tough." It has to be
> strong enough to stay intact while supporting the weight of the payload
> train, but it also has to shatter and not just split open, or worse yet,
> contain and withstand the gas pressure. So, I'd think you'd want something

> stronger than, say, polystyrene but not as tough as Lexan (polycarbonate)
> nor as soft or flexible as nylon or vinyl. What's in between? One thing I
> don't know a whole lot about is plastics. The first thing that comes to
> mind is Plexiglas (acrylic PMMA), but maybe a thermosetting plastic would
> be better. Maybe phenolic (without embedded fabric). I doubt you'd have
> to worry about phenolic catching fire at least, but plexiglas tube would
> probably be easier to find.
>
> Ballooning can always use another reliable cutdown device.
>
> Barry N4MSJ
>
>>> Mike Manes wrote:
>>>> [snipped] One caveat re pyrotechnic cutdown devices it that they can
>>>> ignite a grass fire if they go off after landing. And making your
>>>> firing circuit TOO sensitive in the presence of strong RF, like from
>>>> a 50W mobile rig, could set it off accidentally.
>>>>
>>>> 73 de Mike W5VSI
>>>>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5977. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 06:23:52 UTC
From: wb8elk@aol.com
Topic: 5728 Message: 5977

Zack....I'd love to return to Hutch....always have a great time there?for GPSL?and the Cosmosphere is a great attraction as well....West Texas is quite a?haul for me as well as others.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL@yahoogroups.com
Sent: Sun, Aug 23, 2009 6:58 pm
Subject: Re: [GPSL] GPSL 2010

I'm willing to host again in Hutch if people want to venture back for a 3rd time.? We don't have much in the way of exciting manufacturing around here, but we could formalize something at the Cosmosphere.

As for Texas, I'm trying to keep my options open, but I'm not sure if I'd be able to make that either - it would just depend on when the date fell.

Zack Clobes, W0ZC
Project: Traveler

On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@...> wrote:

?

I haven't heard anything yet and wanted to make sure my message got out.?

?

We're looking for a host for GPSL 2010.? We can get a poly balloon demo in 2010 and it's recommended we launch in the weat Texas, east New Mexico region because of the lack of air?traffic.

?

Is anyone interested in hosting GPSL 2010?? What if it was held elsewhere??

--
Onwards and Upwards,
Paul

5978. RE: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 11:47:51 UTC
From: Nick Hanks
Topic: 5728 Message: 5978

Zack,

We'd be pleased to come to Hutch again. Always had a great time and another trip through the Cosmosphere would sit fine with a number of us. The Texas trip was a bit long for us too.

Nick

N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Sunday, August 23, 2009 17:59
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2010

I'm willing to host again in Hutch if people want to venture back for a 3rd time. We don't have much in the way of exciting manufacturing around here, but we could formalize something at the Cosmosphere.

As for Texas, I'm trying to keep my options open, but I'm not sure if I'd be able to make that either - it would just depend on when the date fell.

Zack Clobes, W0ZC
Project: Traveler

On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@gmail.
<mailto:nearsys@...> com> wrote:

I haven't heard anything yet and wanted to make sure my message got out.

We're looking for a host for GPSL 2010. We can get a poly balloon demo in 2010 and it's recommended we launch in the weat Texas, east New Mexico region because of the lack of air traffic.

Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?

--
Onwards and Upwards,
Paul

5979. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 12:49:30 UTC
From: L. Paul Verhage
Topic: 5728 Message: 5979

Okay, do we want to do Hutch for 2010 and Omaha for 2011?

Paul

On Mon, Aug 24, 2009 at 6:47 AM, Nick Hanks <ndhanks@...> wrote:

>
>
> Zack,
>
>
>
> We'd be pleased to come to Hutch again. Always had a great time and
> another trip through the Cosmosphere would sit fine with a number of us.
> The Texas trip was a bit long for us too.
>
>
>
>
>
>
> Nick
>
> N0LP
>
> EOSS GPSL Coordinator
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Zack
> Clobes
> *Sent:* Sunday, August 23, 2009 17:59
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] GPSL 2010
>
>
>
>
>
>
> I'm willing to host again in Hutch if people want to venture back for a 3rd
> time. We don't have much in the way of exciting manufacturing around here,
> but we could formalize something at the Cosmosphere.
>
>
> As for Texas, I'm trying to keep my options open, but I'm not sure if I'd
> be able to make that either - it would just depend on when the date fell.

>
> Zack Clobes, W0ZC
> Project: Traveler
>
> On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@...>
> wrote:
>
>
>
> I haven't heard anything yet and wanted to make sure my message got out.
>
>
>
> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
> 2010 and it's recommended we launch in the weat Texas, east New Mexico
> region because of the lack of air traffic.
>
>
>
> Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?
>
>
> --
> Onwards and Upwards,
> Paul
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>

--
Onwards and Upwards,
Paul

5980. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 12:52:04 UTC
From: Roger Hammond
Topic: 5728 Message: 5980

Sounds good to me.

Rog KC0MWM

On Mon, Aug 24, 2009 at 7:49 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Okay, do we want to do Hutch for 2010 and Omaha for 2011?
>
> Paul
>
> On Mon, Aug 24, 2009 at 6:47 AM, Nick Hanks <ndhanks@...> wrote:
>
>>
>>
>> Zack,
>>
>>
>>
>> We'd be pleased to come to Hutch again. Always had a great time and
>> another trip through the Cosmosphere would sit fine with a number of us.
>> The Texas trip was a bit long for us too.
>>
>>
>>
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>>
>>
>> Nick
>>
>> N0LP
>>
>> EOSS GPSL Coordinator
>>
>>
>> ------------------------------
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *Zack Clobes
>> *Sent:* Sunday, August 23, 2009 17:59
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] GPSL 2010
>>
>>
>>
>>

>>
>> I'm willing to host again in Hutch if people want to venture back for a
>> 3rd time. We don't have much in the way of exciting manufacturing around
>> here, but we could formalize something at the Cosmosphere.
>>
>>
>> As for Texas, I'm trying to keep my options open, but I'm not sure if I'd
>> be able to make that either - it would just depend on when the date fell.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>> On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@...>
>> wrote:
>>
>>
>>
>> I haven't heard anything yet and wanted to make sure my message got out.
>>
>>
>>
>> We're looking for a host for GPSL 2010. We can get a poly balloon demo in
>> 2010 and it's recommended we launch in the weat Texas, east New Mexico
>> region because of the lack of air traffic.
>>
>>
>>
>> Is anyone interested in hosting GPSL 2010? What if it was held
>> elsewhere?
>>
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>> --
>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
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>

5981. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 13:21:39 UTC
From: Mark Conner
Topic: 5728 Message: 5981

2011 works for us in Omaha I think. I think we would target July 7-10 unless people wanted to consider June 30-July 3 (the 4th is a Monday in 2011).

Our Thursday afternoon event would likely be the Strategic Air and Space Museum (formerly the SAC Museum) near Ashland, about halfway between Lincoln and Omaha just off I-80. For a group of >20, we can get reduced admission and a guided tour.

73 de Mark N9XTN

On Mon, Aug 24, 2009 at 07:49, L. Paul Verhage<nearsys@...> wrote:
>
>
> Okay, do we want to do Hutch for 2010 and Omaha for 2011?
>
> Paul
>

5982. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 13:50:24 UTC
From: Keith Kaiser
Topic: 5728 Message: 5982

I think it's important to stay away from the 4th of July weekend for GPSL, later in July seems to work very well for most of us. That's my $.02 worth anyway....

73's
Keith Kaiser
wa0tjt@...

On Aug 24, 2009, at 8:21 AM, Mark Conner wrote:

> 2011 works for us in Omaha I think. I think we would target July 7-10
> unless people wanted to consider June 30-July 3 (the 4th is a Monday
> in 2011).
>
> Our Thursday afternoon event would likely be the Strategic Air and
> Space Museum (formerly the SAC Museum) near Ashland, about halfway
> between Lincoln and Omaha just off I-80. For a group of >20, we can
> get reduced admission and a guided tour.
>
> 73 de Mark N9XTN
>
> On Mon, Aug 24, 2009 at 07:49, L. Paul Verhage<nearsys@...>
> wrote:
> >
> >
> > Okay, do we want to do Hutch for 2010 and Omaha for 2011?
> >
> > Paul
> >
>
>

5983. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 13:51:06 UTC
From: Keith Kaiser
Topic: 5728 Message: 5983

Sounds like Hutch it is. Who is the official sponsor, I want to get
the web site started.

73's
Keith Kaiser
wa0tjt@...

On Aug 23, 2009, at 5:10 PM, L. Paul Verhage wrote:

>
> I haven't heard anything yet and wanted to make sure my message got
> out.
>
> We're looking for a host for GPSL 2010. We can get a poly balloon
> demo in 2010 and it's recommended we launch in the weat Texas, east
> New Mexico region because of the lack of air traffic.
>
> Is anyone interested in hosting GPSL 2010? What if it was held
> elsewhere?
>
> --
> Onwards and Upwards,
> Paul
>
>

5984. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 15:02:20 UTC
From: BASE
Topic: 5728 Message: 5984

I hope to make both events. Hutchinson and Omaha are reasonable distances from western Indiana. July weekends are generally good. Space Jam 4 with the Scouts will be in August next year.

Haven't had a Santa Fe trail rut fix since 1994.

Howard

--- On Mon, 8/24/09, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] GPSL 2010
To: GPSL@yahoogroups.com
Date: Monday, August 24, 2009, 8:49 AM

Okay, do we want to do Hutch for 2010 and Omaha for 2011?

Paul

On Mon, Aug 24, 2009 at 6:47 AM, Nick Hanks <ndhanks@msn. com> wrote:

Zack,

We'd be pleased to come to Hutch again. Always had a great time and another trip through the Cosmosphere would sit fine with a number of us. The Texas trip was a bit long for us too.

Nick
N0LP
EOSS GPSL Coordinator

From: GPSL@yahoogroups. com [mailto:GPSL@yahoogroups. com] On Behalf Of Zack Clobes

Sent: Sunday, August 23, 2009 17:59
To: GPSL@yahoogroups. com

Subject: Re: [GPSL] GPSL 2010

I'm willing to host again in Hutch if people want to venture back for a 3rd time. We don't have much in the way of exciting manufacturing around here, but we could formalize something at the Cosmosphere.

As for Texas, I'm trying to keep my options open, but I'm not sure if I'd be able to make that either - it would just depend on when the date fell.

Zack Clobes, W0ZC
Project: Traveler

On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@gmail. com> wrote:

I haven't heard anything yet and wanted to make sure my message got out.

We're looking for a host for GPSL 2010. We can get a poly balloon demo in 2010 and it's recommended we launch in the weat Texas, east New Mexico region because of the lack of air traffic.

Is anyone interested in hosting GPSL 2010? What if it was held elsewhere?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

5985. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 16:44:55 UTC
From: Zack Clobes
Topic: 5728 Message: 5985

With Paul and the group's blessing, I guess Project: Traveler will be the host for 2010.

Our website is at www.projecttraveler.org. I'm not sure how the GPSL website is being maintained at this point - are you still setting a redirect to the host's site?

Zack

On Mon, Aug 24, 2009 at 10:02 AM, BASE <basedepauw@...> wrote:

>
>
> I hope to make both events. Hutchinson and Omaha are reasonable distances
> from western Indiana. July weekends are generally good. Space Jam 4 with
> the Scouts will be in August next year.
>
> Haven't had a Santa Fe trail rut fix since 1994.
>
> Howard
>
> --- On *Mon, 8/24/09, L. Paul Verhage <nearsys@...>* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: Re: [GPSL] GPSL 2010
> To: GPSL@yahoogroups.com
> Date: Monday, August 24, 2009, 8:49 AM
>
>
>
> Okay, do we want to do Hutch for 2010 and Omaha for 2011?
>
> Paul
>
> On Mon, Aug 24, 2009 at 6:47 AM, Nick Hanks <ndhanks@msn.
com<http://mc/compose?to=ndhanks@...>
> > wrote:
>
>>
>>
>> Zack,
>>
>>
>>
>> We’d be pleased to come to Hutch again. Always had a great time and

>> another trip through the Cosmosphere would sit fine with a number of us.
>> The Texas trip was a bit long for us too.
>>
>>
>>
>>
>>
>> Nick
>>
>> N0LP
>>
>> EOSS GPSL Coordinator
>>
>>
>> ------------------------------
>>
>> *From:* GPSL@yahoogroups. com
<http://mc/compose?to=GPSL@yahoogroups.com>[mailto:GPSL@yahoogroups.
>> com <http://mc/compose?to=GPSL@yahoogroups.com>] *On Behalf Of *Zack
>> Clobes
>> *Sent:* Sunday, August 23, 2009 17:59
>> *To:* GPSL@yahoogroups. com <http://mc/compose?to=GPSL@yahoogroups.com>
>> *Subject:* Re: [GPSL] GPSL 2010
>>
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>>
>>
>> I'm willing to host again in Hutch if people want to venture back for a
>> 3rd time. We don't have much in the way of exciting manufacturing around
>> here, but we could formalize something at the Cosmosphere.
>>
>>
>> As for Texas, I'm trying to keep my options open, but I'm not sure if I'd
>> be able to make that either - it would just depend on when the date fell.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>> On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@gmail.
com<http://mc/compose?to=nearsys@...>>
>> wrote:
>>
>>
>>
>> I haven't heard anything yet and wanted to make sure my message got out.
>>
>>
>>
>> We're looking for a host for GPSL 2010. We can get a poly balloon demo in

>> 2010 and it's recommended we launch in the weat Texas, east New Mexico
>> region because of the lack of air traffic.
>>
>>
>>
>> Is anyone interested in hosting GPSL 2010? What if it was held
>> elsewhere?
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
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5986. Re: [GPSL] GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-24 17:03:06 UTC
From: Keith Kaiser
Topic: 5728 Message: 5986

Hi Zack,

I will start putting together the 2010 GPSL page asap. It will be your page but I'll do the editing if you don't mind. Please take a look at the 2009 version (superlaunch.org) let me know what you like what you don't etc. and I'll make changes.

Mostly I need info about the local, choice of launch sites, dinner sites, hotels and so on. But hey, this event is almost a year out so take your time, think about things and we'll move forward slowly.

73's
Keith Kaiser
wa0tjt@...

On Aug 24, 2009, at 11:44 AM, Zack Clobes wrote:

> With Paul and the group's blessing, I guess Project: Traveler will
> be the host for 2010.
>
> Our website is at www.projecttraveler.org. I'm not sure how the
> GPSL website is being maintained at this point - are you still
> setting a redirect to the host's site?
>
> Zack
>
>
> On Mon, Aug 24, 2009 at 10:02 AM, BASE <basedepauw@yahoo.com> wrote:
>
>
> I hope to make both events. Hutchinson and Omaha are reasonable
> distances from western Indiana. July weekends are generally good.
> Space Jam 4 with the Scouts will be in August next year.
>
> Haven't had a Santa Fe trail rut fix since 1994.
>
> Howard
>
> --- On Mon, 8/24/09, L. Paul Verhage <nearsys@...> wrote:
>
> From: L. Paul Verhage <nearsys@...>
>
> Subject: Re: [GPSL] GPSL 2010
> To: GPSL@yahoogroups.com
> Date: Monday, August 24, 2009, 8:49 AM
>

>
>
>
> Okay, do we want to do Hutch for 2010 and Omaha for 2011?
>
> Paul
>
> On Mon, Aug 24, 2009 at 6:47 AM, Nick Hanks <ndhanks@msn. com> wrote:
>
>
> Zack,
>
>
> We’d be pleased to come to Hutch again. Always had a great time and
> another trip through the Cosmosphere would sit fine with a number of
> us. The Texas trip was a bit long for us too.
>
>
>
> Nick
>
> N0LP
>
> EOSS GPSL Coordinator
>
>
> From: GPSL@yahoogroups. com [mailto:GPSL@yahoogroups. com]On Behalf
> Of Zack Clobes
> Sent: Sunday, August 23, 2009 17:59
> To: GPSL@yahoogroups. com
>
>
> Subject: Re: [GPSL] GPSL 2010
>
>
>
>
>
> I'm willing to host again in Hutch if people want to venture back
> for a 3rd time. We don't have much in the way of exciting
> manufacturing around here, but we could formalize something at the
> Cosmosphere.
>
>
>
> As for Texas, I'm trying to keep my options open, but I'm not sure
> if I'd be able to make that either - it would just depend on when
> the date fell.
>
> Zack Clobes, W0ZC
> Project: Traveler

>
>
>
> On Sun, Aug 23, 2009 at 5:10 PM, L. Paul Verhage <nearsys@gmail.
> com> wrote:
>
>
> I haven't heard anything yet and wanted to make sure my message got
> out.
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> We're looking for a host for GPSL 2010. We can get a poly balloon
> demo in 2010 and it's recommended we launch in the weat Texas, east
> New Mexico region because of the lack of air traffic.
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> Is anyone interested in hosting GPSL 2010? What if it was held
> elsewhere?
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> Onwards and Upwards,
> Paul
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> --
> Onwards and Upwards,
> Paul
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5987. Balloon Launch for KU

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-25 03:58:57 UTC
From: L. Paul Verhage
Topic: 5987 Message: 5987

I'm a student teacher in CT442 this semester (to get my PhD, I need a college teaching experience). My prof has asked I have the students do an inquiry unit involving BalloonSats. Is anyone in the Lawrence area interested in helping out with a launch in mid to late September? Is anyone in the area planning a launch that might also have some weight available?

Thanks

--
Onwards and Upwards,
Paul

5988. APRS VHF Frequency

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-29 02:03:00 UTC
From: L. Paul Verhage
Topic: 5988 Message: 5988

In the US, 144.390 is the standard frequency for APRS. In Europe it's 144.800. I see Byonics only sells a 144.800 model of their MicroTrak 300. Is there a reason we can't fly on 144.800? I know it's not I-gated, but is there any other reason? I've been looking for a band plan, but so far, I haven't found one for APRS online (I'll keep looking through).

--
Onwards and Upwards,
Paul

5989. Re: [GPSL] APRS VHF Frequency

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-29 02:16:07 UTC
From: 74115
Topic: 5988 Message: 5989

Hi Paul,
The ARRL Rptr Handbook says FM repeater inputs are from 144.600-144.900.

73 Harry KC5TRB

5990. Re: [GPSL] APRS VHF Frequency

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-29 14:54:23 UTC
From: Mark Conner
Topic: 5988 Message: 5990

As Harry said, 144.800 is a repeater input, specifically for 145.400.
If you Google "145.400 repeater" you'll find a (lengthy) list of
users.

I believe the MicroTrak now comes in a frequency-agile package which
can be programmed. Also, you can get the SRB MX146 transmitter from
https://www.argentdata.com/catalog/product_info.php?cPath=25&products_id=81,
which can have its frequency set by an I2C or SPI interface. This
might be good for a setup where you have your main output on a non-.39
frequency with lots of data and put out once-per-minute updates on
.39.

73 de Mark N9XTN

On Fri, Aug 28, 2009 at 21:03, L. Paul Verhage<nearsys@...> wrote:
>
>
> In the US, 144.390 is the standard frequency for APRS. In Europe it's
> 144.800. I see Byonics only sells a 144.800 model of their MicroTrak 300.
> Is there a reason we can't fly on 144.800? I know it's not I-gated, but is
> there any other reason? I've been looking for a band plan, but so far, I
> haven't found one for APRS online (I'll keep looking through).
>
> --
> Onwards and Upwards,
> Paul
>
>
>

5991. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-30 04:48:31 UTC
From: Mike Manes
Topic: 5939 Message: 5991

Apologies for the LDR (long delayed reply) - been regaling in a surge of productivity fueled by a steadfast refusal to turn on this bloody time thief except every 3 days.

Thanks for the comment about the fast release. One of the nice benefits is the utter simplicity of flight prep: just tie on a new lift ring to the lift line to the balloon and clip it into the release. Period. The only time a burner needs to be refit and burner batteries consumed is in the event that the backup release is fired, e.g., to avoid an undesirable landing site or in the rare event of a floater. So far, only once in 30 flights with the fast release to date.

The bad news is that our plans to get out CAD drawings and CAM parts have stalled. Anyone know of a cheap and user-friendly 2D mechanical drafting app - i.e., NOT AutoCAD?

73 de Mike W5VSI, EOSS

Harry M wrote:
>
>
> Hi Barry,
>
> Just to give you some background on me so you understand where my
> comments come from. I was a Firefighter for 27 years, I was involved in
> High Power Rocketry, I worked in pyrotechnics for many years in the
> development of formularies and Class A,B & C explosive devices for
> fireworks displays.
>
> If you decide to pursue the pyro cutdown and acquiring materials I would
> strongly suggest checking your local, state & federal regulations.
> Although it may be legal to make devices, more than likely you will run
> into regulations regarding the storage and transportation of such. You
> should also acquire some education on pyrotechnics both for you and your
> families safety. To many "backyard pyros" have suffered from their lack
> of education.
>
> I won't discuss the how-to's of pyro on the web. There are legal
> ramifications that I choose to avoid!
>
> Estes igniters are unreliable in the fact that they are very cheaply
> made and are fragile. Anyone that has ever launched model rockets can
> tell you how many times Estes igniters fail.
>
> The nichrome device is much more reliable. I use it from one flight to

> the next with no more prep than running the load line back through the
> nichrome coil. No muss no fuss!
>
> Mike has come up with a really great mechanical device for cutdown.
> It is very reliable! Your turn Mike... :)
>
>
>
> 73 Harry KC5TRB
> "Stay Green"
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5992. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-30 13:19:33 UTC
From: Zack Clobes
Topic: 5939 Message: 5992

I use DesignCAD quite a bit. You can pick those up on their website for $50, and eBay used to be cheaper than that.

It's somewhat different that AC, but very intuitive (assuming you have *any*CAD experience).

Zack Clobes, W0ZC
Project: Traveler

PS. I wish I had self-control to turn my PC/email off for 3 days.. :-) I can't imaging how much I could get done around here!

On Sat, Aug 29, 2009 at 11:48 PM, Mike Manes <mrmanes@...> wrote:

>
>
> Apologies for the LDR (long delayed reply) - been regaling in a surge of
> productivity fueled by a steadfast refusal to turn on this bloody time
> thief except every 3 days.
>
> Thanks for the comment about the fast release. One of the nice benefits is
> the utter simplicity of flight prep: just tie on a new lift ring to the
> lift
> line to the balloon and clip it into the release. Period. The only time a
> burner needs to be refit and burner batteries consumed is in the event that
> the backup release is fired, e.g., to avoid an undesirable landing site or
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> the rare event of a floater. So far, only once in 30 flights with the fast
> release to date.
>
> The bad news is that our plans to get out CAD drawings and CAM parts have
> stalled. Anyone know of a cheap and user-friendly 2D mechanical drafting
> app - i.e., NOT AutoCAD?
>
> 73 de Mike W5VSI, EOSS
>
> Harry M wrote:
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> >
> > Hi Barry,
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> > Just to give you some background on me so you understand where my
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> > fireworks displays.
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> > Mike has come up with a really great mechanical device for cutdown.
> > It is very reliable! Your turn Mike... :)
> >
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> >
> > 73 Harry KC5TRB
> > "Stay Green"
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> > --
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>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

5993. RE: [GPSL] APRS VHF Frequency

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-30 17:00:16 UTC
From: Nick Hanks
Topic: 5988 Message: 5993

Last winter EOSS had a tentative 3-fer on the schedule for this summer. We needed another frequency to cover our APRS and CW beacons. (BTW the 3-fer turned into a 2-fer.) I contacted a friend who is our Colorado ARRL Section Technical Coordinator for his thoughts on a frequency to use. Our tech coordinator is Bob Witte, K0NR. Some of you may know Bob as one of Joe Lynch's columnist in CQ VHF.

I contacted Bob Friday (Aug. 28th) about sending his response to my questions to the GPSL reflector. He wrote back:

"Put a big disclaimer at the top that this email is in the CONTEXT OF COLORADO. The problem with VHF band plans is they are local and they actually vary quite a bit from state to state (more than you would expect). So I would expect to hear someone say "that's not the frequencies we use in Texas" or whatever."

So take heed that this data in relation to flights in Colorado, but I think it may be useful in looking for a new APRS frequency. Here's the summary of our email exchange with Bob's thoughts in blue and mine comments in black.

"1. Something near 144.44 MHz (like 144.44 maybe).

2. A simplex frequency such as 147.42 MHz (I've started scanning the 147.200 - 147.570 band looking for ECHOLINK traffic per Bob's response. Maybe someone with better listening conditions (i.e., not behind the hogback) could do the same.)

3. A frequency in the Misc/Experimental band as long as you stay away from 145.80 MHz. Candidate would be 145.650 MHz, but maybe on a different flight string if our longtime EOSS favorite of 145.600 MHz was also in use. (We could start scanning this band 145.500 - 145.800 MHz too looking for high-use traffic.)"

I should note that at a earlier GPSL (in 2002 I think) EOSS received a bit of push back on the use 147.555 MHz in Kansas as it's used as a skywarn altering frequency. I tried to find a 2m band plan for Kansas to see if this was still used, but couldn't find a plan on the web.

Below is a lightly edited, full version of our question and Bob's response (font colors the same).

73,

Nick

N0LP

EOSS

Again please note this data is context of balloon flights in Colorado.

Hi Nick,
Good to hear from you.

Just to be clear, I'll put out the disclaimer that I don't assign frequencies for specific uses. But I think you know that and are just looking for some advice on this.

Further comments below.

Hi Bob,

Edge of Space Sciences (EOSS) is looking for two frequencies on which to operate an APRS transmitter and a CW beacon during a flight next summer. This flight is a bit different in that there will be three balloons in the air at one time. We need frequencies for our APRS beacons and our CW beacons. We routinely use three 2m frequencies on our flights (144.34 for APRS position data, 145.600 for APRS or a CW ID beacon, and 147.555 for CW ID beacons). The CW ID beacon transmits a tone for 30 seconds and its ID in CW and then is silent. This is used to DF the location of the balloon should the APRS module fail. We've used these frequencies for a number of years without any difficulties. We need two more frequencies to support the 3-fer flight as we share the 144.34 freq between two of the APRS beacons by time-slotting their transmissions.

A survey on the ARRL 2m band plan and the AMSAT frequency usage (http://www.amsat.org/amsat-new/satellites/frequencies.php) shows the following possible frequencies we could use.

144.44 MHz This frequency is in the "New OSCAR Subband" in the ARRL band plan. This would be 5 kHz above the national APRS freq of 144.39 and 5 kHz below the AMSAT 144.49 freq for International Space Station (ISS) crew uplink and imaging. The AMSAT website labels this freq "semi-operational." A little calculation shows a maximum Doppler shift of 3.7 kHz for the ISS at 200 nm and the downlink frequency of 144.90 so there would a 1.3 kHz of space between the 144.44 and the 149.49 AMSAT freq during a pass. This possible conflict would be moot if: 1) the frequency is not in use (a reference to its "semi operational" status), 2) we not use the frequency during an ISS pass over the flight area, or 3) we accept that the CW beacon at one watt into a vertical J-pole would not have sufficient EIRP to break the squelch of the ISS receiver when the ISS is at low elevation angles (close to or raising above the horizon) when the Doppler would be at its maximum and range to the ISS at its maximum. I think 144.44 MHz is 50 kHz above the APRS frequency of 144.39 MHz, not 5 kHz. (My typo. nh) You could probably tighten that up and use something like 144.39 + 0.030 MHz = 144.42 MHz. This has you 70 kHz below the ISS uplink which is plenty. It turns out that this OSCAR subband is not available for satellite use in all parts of the world, so basically no one wants to put a satellite on the air in this band. Probably a safe place to play with balloons (except for the APRS frequency on 144.39 MHz).

147.425 MHz This frequency is in the upper of the two simplex subbands of the ARRL band plan. This is the same subband as the 147.555 frequency we currently use. In either 2001 or 2002 during an amateur radio balloon conference in Kansas we found that 147.555 is used as a call up frequency for a storm tracking net. We used the 147.555 frequency in Colorado regularly and in Aug. of this year just east of Kansas City, MO with no adverse effects. Its use would give us 125 kHz of separation between the two balloons so mutual interference should be minimal. The ARRL band plan is quite general to cover the entire US. VHF band planning is really local, so a better place to look is the CCARC 2M band plan at (CCARC is the Colorado Council of Amateur Radio Clubs)

http://www.ccarc.net/images/CCARC_FUP_144MHz_revB.pdf
You'll see that the appropriate simplex frequency is actually 147.420 MHz as the band plan is laid out on 15 kHz channel spacing. In general, the simplex frequencies in the 147 MHz range are lightly used and you could just pick one. Sometimes there are Echolink nodes running on these frequencies which could be a major conflict. (I'll start scanning the subband for Echolink traffic.)

145.800 MHz This frequency is the top edge of the Miscellaneous and Experimental Modes subband of the ARRL band plan. This is the same subband as our currently used 145.600. The frequencies would be separated by 200 kHz and used on separate balloons so mutual interference should be minimal. This is the downlink of the ISS station, so that frequency is a real problem. (Underline is mine. nh) You could slide down a bit....maybe to 145.650 MHz or so and still be in the Misc/Experimental subband. The 145.650 MHz may be too close to the 145.600 freq for two payloads on the same string, but would probably be okay for use with two or more flight strings.

146.400 MHz This frequency is the bottom edge of the lower of the two Simplex Subbands in the ARRL band plan. It is 155 kHz above the frequency (146.55) EOSS uses for simplex communications at the launch site and between the track and recovery team members. Believe 155 kHz should be sufficient separation between the two. It's also 120 kHz below the national calling frequency of 146.52 which again should be sufficient separation. This might work. I have heard significant simplex activity down on 146.40, 146.43, 146.46 MHz etc. So the risk is that you conflict with "Ernie and Joe's Favorite Simplex Frequency". I'd choose the 147 MHz simplex frequencies over these....typically less activity.

In summary, I think you could choose two frequencies from this list:

1. Something near 144.44 MHz
2. A simplex frequency such as 147.42 MHz
3. A frequency in the Misc/Experimental band as long as you stay away from 145.80 MHz

Your thoughts and suggestions would be welcome.

Thanks for your help.

Nick Hanks

N0LP

I hope this helps. Let me know if you have any further questions at all.

73, Bob K0NR

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Friday, August 28, 2009 20:03
To: gpsl@yahoogroups.com
Subject: [GPSL] APRS VHF Frequency

In the US, 144.390 is the standard frequency for APRS. In Europe it's 144.800. I see Byonics only sells a 144.800 model of their MicroTrak 300. Is there a reason we can't fly on 144.800? I know it's not I-gated, but is there any other reason? I've been looking for a band plan, but so far, I haven't found one for APRS online (I'll keep looking through).

--
Onwards and Upwards,
Paul

5994. Re: [GPSL] Radar Reflector ? (and a neat idea for a cut-down device as well)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-31 03:41:07 UTC
From: Mike Manes
Topic: 5939 Message: 5994

Thanks, Zack,

I'll check it out. I do have plenty of electronic CAD experience with Tango Schematic and PCB - both of which are so user-friendly that I can pick it up and be going full speed in a few minutes even after being away from it for years. Unfortunately (or fortunately, depending) mine are DOS apps which no capiche IJPs, but I've found an app, CADConverter, that does a fair job of converting HPGL files to PDF, which I used for the payload schematics posted on eoss.org.

73 de Mike W5VSI

Zack Clobes wrote:
>
>
> I use DesignCAD quite a bit. You can pick those up on their website for
> $50, and eBay used to be cheaper than that.
>
> It's somewhat different that AC, but very intuitive (assuming you have
> /any/ CAD experience).
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> Zack Clobes, W0ZC
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> 73 de Mike W5VSI, EOSS
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> Harry M wrote:
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> > Hi Barry,
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> > Just to give you some background on me so you understand where my
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> > High Power Rocketry, I worked in pyrotechnics for many years in the
> > development of formularies and Class A,B & C explosive devices for
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> flight to

> > the next with no more prep than running the load line back
> through the
> > nichrome coil. No muss no fuss!
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> > Mike has come up with a really great mechanical device for cutdown.
> > It is very reliable! Your turn Mike... :)
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> > 73 Harry KC5TRB
> > "Stay Green"
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> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

5995. Re: Fw: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-08-31 13:05:12 UTC
From: Bruce Coates
Topic: 5933 Message: 5995

Hi Paul

The next flight for SABRE is scheduled for Sunday, September 13. We plan to fly on min on that flight. I'll post my results.

73, Bruce

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Thursday, August 13, 2009 8:03 AM
Subject: Re: Fw: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

I'm starting an article for Popular Mechanics (their online version) on making a near space tracker. So I'll be very interested in hear about the results.

Paul

On Thu, Aug 13, 2009 at 8:36 AM, Bruce Coates <bruce.coates@...> wrote:

Oops. Missed sending this to the list.

BC

----- Original Message -----
Hi Greg

That remains to be seen. As Mark mentioned in the original post, the spec
claims that you can exceed either the speed or altitude limit but not both,
just like the Garmin units that many people fly. Only a test flight will
tell us for certain. I'll be posting my flight results to the group.

73, Bruce

> ----- Original Message -----
> From: "Greg Clark" <K7RKT@...>
> To: <bruce.coates@...>
> Sent: Wednesday, August 12, 2009 11:37 PM
> Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun
>
>
> On Thu, Aug 13, 2009 at 7:36 AM, Greg Clark<K7RKT@...> wrote:
>> Thanks Bruce -- I'll have to go back and check this out on mine,
>> perhaps I have an older version? -- next question -- will it work
>> above 18000m ?
>>
>> -- Greg

>

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

5996. Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 15:28:59 UTC
From: k6rpt
Topic: 5996 Message: 5996

How long should the line be between the balloon and the parachute and between the parachute and the fist payload box?

-Ron K6RPT

5997. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 15:51:27 UTC
From: L. Paul Verhage
Topic: 5996 Message: 5997

I make my load line, the string between the balloon and parachute, about 20 feet long. I want to ensure the balloon fragments have every opportunity to fall over the side of the parachute.

The shroud lines on my near spacecraft are roughly the about circumference of the parachute. I do this based on something I read many years ago (I don't recall the reference now).

Paul

On Fri, Sep 4, 2009 at 10:28 AM, k6rpt <Ron@...> wrote:

> How long should the line be between the balloon and the parachute and
> between the parachute and the fist payload box?
>
> -Ron K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

5998. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 15:58:09 UTC
From: 74115
Topic: 5996 Message: 5998

My load line from capsule #1 to balloon is 8-10 feet.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

5999. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 16:25:29 UTC
From: Joe
Topic: 5996 Message: 5999

to us it all depends on what we are flying.

The Balloon tho chute distance is like others have said, at lease long enough that all the balloon remenains can fall completely way past the chute and shroud lines.

In our flights this is raarely a problem.

On a RF flight like a corssband repeater the chute is usually close to the payload. the gather where all the shroud lines come together, is usually 5 feet ot so from the payload, whatever is a convient left over piece of line. And then the line from the top of chute to balloon is usually long enough that the balloon leftovers can fall below the payload if possible..

Now a Video flight, the distance from payload to chute is similar,, but the distance between the chute and the balloon always depends on the wind at launch time if it's windy it will be about 100 feet long, and if it's calm then we go as much as 300 feet.

Joe WB9SBD

74115 wrote:

>
>
> My load line from capsule #1 to balloon is 8-10 feet.
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.409 / Virus Database: 270.13.76/2345 - Release Date: 09/04/09 05:51:00

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6000. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 17:30:49 UTC
From: 74115
Topic: 5996 Message: 6000

My mistake!

The CHUTE to balloon distance is 8-10 feet, not capsule to balloon.

6001. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 18:06:09 UTC
From: Bruce Coates
Topic: 5996 Message: 6001

Hi Ron

SABRE is using a very long parachute to payload line, 50 to 75 feet. The only reason is to reduce the amount of swing and sway in the payload so we get video that's watchable without pails of Gravol. For balloon to patachute, it's 10-20 feet ... for no particular reason.

73, Bruce

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Friday, September 04, 2009 9:28 AM
Subject: [GPSL] Line between the balloon and the parachute ?

How long should the line be between the balloon and the parachute and between the parachute and the fist payload box?

-Ron K6RPT

6002. New Food Item

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-04 18:39:09 UTC
From: L. Paul Verhage
Topic: 6002 Message: 6002

Just when you thought it couldn't get worse.....

http://consumerist.com/5352671/attention-deep-fried-butter-exists

--
Onwards and Upwards,
Paul

6003. Now I Need To Fine Me Some Whales

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-05 02:38:01 UTC
From: Joe
Topic: 6003 Message: 6003

http://www.rdmag.com/News/2009/07/Materials-Transparent-Aluminum-Named-New-State-Of-Matter/

6004. Re: [GPSL] Now I Need To Fine Me Some Whales

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-05 22:29:33 UTC
From: L. Paul Verhage
Topic: 6003 Message: 6004

The readly difficult part is going to be the time travel.

Paul

On Fri, Sep 4, 2009 at 9:38 PM, Joe <nss@...> wrote:

>
>
> http://www.rdmag.com/News/2009/07/Materials-Transparent-Aluminum-Named-New-State-Of-Matter/
>
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> ------------------------------------
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6005. Next NearSys Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-05 22:46:38 UTC
From: L. Paul Verhage
Topic: 6005 Message: 6005

I'm coordinating a near space launch with Pete Sias for September 26th. The launch will take place in Salina and I'd like to invite everyone to the flight. This mission will carry five BaloonSats with Vernier LabPro dataloggers. The students making these BalloonSats are science majors at KU tht are taking classes to be science teachers. I plan to send a test tracker on this flight. The tracker is a design for the Popular Mechanics online article I'm writing.

I plan to make an October launch from Washburn University in October for their meteorology class. I'd like to invite near space crews to this one also.
On both flights I'll launch a tracker transmitting at 144.390. The callsign will be KD4STH-xx. I'll let everyone know the SSID once I pick the tracking module I'll fly.

Thanks

--
Onwards and Upwards,
Paul

6006. Re: [GPSL] Line between the balloon and the parachute ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 05:30:33 UTC
From: Mike Manes
Topic: 5996 Message: 6006

EOSS has standardized on 12 - 15 ft of lift line between the balloon and the 'chute apex. This allow the balloon to be laid out over the line prior to fill and still clear the parachute, and it also discourages latex shards from the bursting (exploding!) balloon from snagging in the 'chute and shroud lines.
73 de Mike W5VSI

k6rpt wrote:
> How long should the line be between the balloon and the parachute and between the parachute and the fist payload box?
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6007. How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 15:16:46 UTC
From: k6rpt
Topic: 6007 Message: 6007

How is the line attached to the balloon? Is the neck of the balloon folded in half and tied with string or zip tie to make a loop to tie the string through?

-Ron K6RPT

6008. FLIGHT ANNOUNCEMENT

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 15:48:18 UTC
From: k6rpt
Topic: 6008 Message: 6008

FLIGHT ANNOUNCEMENT

LAUNCH DATE/TIME: 09-12-2009 8AM ☐ 10AM

LAUNCH LOCATION: TBA, CENTRIAL CALIFORINA

CALLSIGHNS FREQUENCIES: APRS 144.39 K6RPT-10, APRS 144.36 K6RPT-11,
SIMPLEX REPEATER 446.500 PL 100

ADDITIONAL INFORMATION: BALLOON IS A KCI-1500,CANON A560,SIMPLEX REPEATER,TOTAL PAYLOAD WEIIGHT IS 3.5 LBS

I would like to thank everybody at GPSL for sharing all of your flight experiences with me, it has helped so much.

-Ron K6RPT

6009. Re: [GPSL] How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 17:40:48 UTC
From: L. Paul Verhage
Topic: 6007 Message: 6009

I've started tying a loop of the load line around the twisted balloon neck
and then folding the neck over and taping the heck out of it.

Remember, you have three pounds of positive lift, so you must use les than
three pounds of tape.

Paul

On Sun, Sep 6, 2009 at 10:16 AM, k6rpt <Ron@...> wrote:

> How is the line attached to the balloon? Is the neck of the balloon folded
> in half and tied with string or zip tie to make a loop to tie the string
> through?
>
> -Ron K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6010. Re: [GPSL] How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 17:45:33 UTC
From: Mark Conner
Topic: 6007 Message: 6010

What we do is twist the balloon neck while it's still attached to the filler by rotating the entire balloon two or three times. Then we tie the string around the twisted part of the neck and secure the other end by spring clip to something like a belt loop. Then we detach the filler, bend the neck in half over the knot into a U shape, and zip tie around that. Since the other end of the line is secured, if you happen to fumble during this operation you should be able to pull the balloon back down.

We also put a brass ring (about 3" dia.) in the bottom of the U before zip-tying. This makes a much easier handhold for the balloon than hanging onto just the neck.

73 de Mark N9XTN

On Sun, Sep 6, 2009 at 10:16, k6rpt <Ron@...> wrote:

> How is the line attached to the balloon? Is the neck of the balloon folded
> in half and tied with string or zip tie to make a loop to tie the string
> through?
>
> -Ron K6RPT
>
>
>

6011. Re: [GPSL] How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 18:10:31 UTC
From: Joe
Topic: 6007 Message: 6011
Attachments: 3 described; binary payloads are missing from this source WARC

k6rpt wrote:

>How is the line attached to the balloon? Is the neck of the balloon folded in half and tied with string or zip tie to make a loop to tie the string through?
>
>-Ron K6RPT
>
>
what we have been doing for all twenty years so far is the following,

Once the balloon is filled to the correct amount of lift, while it's still attached to the filling apparatus, we tie a simple line around the neck as tight as possible about 5/8th os the way from the balloon transition to neck area to the end of the neck as seen here (filler assembly not in this picture, this was taken just now at the desk with a balloon remnant,

Then in this same location we tie the main balloon to chute support line as seen here,

Then we fold over the neck so that the support line is at the bottom of the "U" shaped area formed by the folding over, and then the neck is tied again in the mid section of the fold. as seen here,

This is a crappy tie up, I did it by myself at the desk so it's not very well done, with an extra set of hands it's much neater and tighter, but you get the idea.

and with this we never have had a failure yet. 47 flights,

Joe WB9SBD
Near Space Sciences

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>Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.409 / Virus Database: 270.13.80/2349 - Release Date: 09/06/09 05:51:00
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6012. Re: [GPSL] FLIGHT ANNOUNCEMENT

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-06 22:34:03 UTC
From: Keith Kaiser
Topic: 6008 Message: 6012

Ron,

I posted your flight, please take a look and see what you think.
A couple of things;
Any chance you have a logo?
In the future could you please use the form; http://www.arhab.org/annomail.html
to submit.

Thanks and good luck with your flight.
73's
Keith Kaiser
wa0tjt@...

On Sep 6, 2009, at 10:48 AM, k6rpt wrote:

> FLIGHT ANNOUNCEMENT
>
> LAUNCH DATE/TIME: 09-12-2009 8AM – 10AM
>
> LAUNCH LOCATION: TBA, CENTRIAL CALIFORINA
>
> CALLSIGHNS FREQUENCIES: APRS 144.39 K6RPT-10, APRS 144.36 K6RPT-11,
> SIMPLEX REPEATER 446.500 PL 100
>
> ADDITIONAL INFORMATION: BALLOON IS A KCI-1500,CANON A560,SIMPLEX
> REPEATER,TOTAL PAYLOAD WEIIGHT IS 3.5 LBS
>
> I would like to thank everybody at GPSL for sharing all of your
> flight experiences with me, it has helped so much.
>
> -Ron K6RPT
>
>

6013. Re: [GPSL] How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-07 00:57:52 UTC
From: Mike Manes
Topic: 6007 Message: 6013

Hi Ron,

For 1200's and 1500's and smaller, I use a clove hitch with a half hitch after just above the fill tube once fill is complete. Then the tube is pulled and the neck folded over and tied off with another clove hitch/half hitch and secured with duct tape. We've also used zip ties over the hitches, but they're overkill, it seems.

Norm Kjome just used the first set of hitches w/o folding the neck with good results.

The neck on Totex 2000's and 3000's are too thick to fold over, so we use a PVC neck adaptor using a modified PVC 1.5" M to 1/2" NPT F reducer (Spears P/N D2466 or 438-209) with an annular groove 0.6" W x 0.05" D and two holes in the flange to accept 4 ft of 500# nylon line. The adaptor is inserted into the neck and secured using a 2" nominal hose clamp. After fill, the 1/2" NPT fill pipe is replaced with a PVC plug, and the lift line is tied off to the two nylon loops running thru the holes in the adaptor flange. All 3 pieces of that hardware go bye-bye with the balloon, but total cost is only about $2.00 - small change compared to the price of the balloon and the He to fill it.

73 de Mike W5VSI

k6rpt wrote:
> How is the line attached to the balloon? Is the neck of the balloon folded in half and tied with string or zip tie to make a loop to tie the string through?
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6014. Re: [GPSL] FLIGHT ANNOUNCEMENT

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-07 01:00:30 UTC
From: Mike Manes
Topic: 6008 Message: 6014

Hey, good luck with your first flight, Ron! Nice work keeping the weight
of all that hardware down to 3.5 lb. That 1500 oughta bust 100K' easily.
73 de Mike W5VSI

k6rpt wrote:
> FLIGHT ANNOUNCEMENT
>
> LAUNCH DATE/TIME: 09-12-2009 8AM – 10AM
>
> LAUNCH LOCATION: TBA, CENTRIAL CALIFORINA
>
> CALLSIGHNS FREQUENCIES: APRS 144.39 K6RPT-10, APRS 144.36 K6RPT-11,
> SIMPLEX REPEATER 446.500 PL 100
>
> ADDITIONAL INFORMATION: BALLOON IS A KCI-1500,CANON A560,SIMPLEX REPEATER,TOTAL PAYLOAD
WEIIGHT IS 3.5 LBS
>
> I would like to thank everybody at GPSL for sharing all of your flight experiences with
me, it has helped so much.
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6015. Re: [GPSL] How is the line attached to the balloon?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-07 00:12:01 UTC
From: Pete Lilja
Topic: 6007 Message: 6015

Mike,

I'm having trouble visualizing your PVC set-up. Would you have a photo available?

Pete

++++++++++++++++++++++++
The neck on Totex 2000's and 3000's are too thick to fold over, so we use a PVC neck adaptor using a modified PVC 1.5" M to 1/2" NPT F reducer (Spears P/N D2466 or 438-209) with an annular groove 0.6" W x 0.05" D and two holes in the flange to accept 4 ft of 500# nylon line. The adaptor is inserted into the neck and secured using a 2" nominal hose clamp. After fill, the 1/2" NPT fill pipe is replaced with a PVC plug, and the lift line is tied off to the two nylon loops running thru the holes in the adaptor flange. All 3 pieces of that hardware go bye-bye with the balloon, but total cost is only about $2.00 - small change compared to the price of the balloon and the He to fill it.

73 de Mike W5VSI

6016. ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-08 03:05:35 UTC
From: Keith Kaiser
Topic: 6016 Message: 6016

Aeronauts,

I've started to re-write the members link page, please look for it at; http://www.arhab.org/links.html . What I'd like you to do is take a look, send me any corrections, additions, or if you know I should... removals.

I know this is not complete, but this is all of the icons I currently have. If you group does not have an icon, let me know what I can put in that space. For example, can I use the letters of your name i.e. BNSP? Please send me too much information instead of not enough. I at least want an icon, eMail address for a contact, web site, etc. I plan to link eventually to the records page and pick up individual records to put on this page too. But that is a later effort.

I won't turn down any advise or ideas you have either. This is the 4th of the web sites that Ralph had originally published. It's amazing how much work that man was doing for all of us... WOW!

73's
Keith Kaiser
wa0tjt@...

6017. Re: [GPSL] ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-08 14:19:23 UTC
From: Roger Hammond
Topic: 6016 Message: 6017

Keith,

Lookin' good!
Thanks for taking on this monumental task.

Rog KC0MWM
CNNSP

On Mon, Sep 7, 2009 at 10:05 PM, Keith Kaiser <wa0tjt@...> wrote:

> Aeronauts,
>
> I've started to re-write the members link page, please look for it at;
> http://www.arhab.org/links.html
> . What I'd like you to do is take a look, send me any corrections,
> additions, or if you know I should... removals.
>
> I know this is not complete, but this is all of the icons I currently
> have. If you group does not have an icon, let me know what I can put
> in that space. For example, can I use the letters of your name i.e.
> BNSP? Please send me too much information instead of not enough. I at
> least want an icon, eMail address for a contact, web site, etc. I plan
> to link eventually to the records page and pick up individual records
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> much work that man was doing for all of us... WOW!
>
> 73's
> Keith Kaiser
> wa0tjt@...
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> Yahoo! Groups Links
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6018. Re: [GPSL] ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-09 01:05:49 UTC
From: Mike Manes
Topic: 6016 Message: 6018

Looks great Keith. FB!
Tnx es 73 de Mike W5VSI, EOSS

Keith Kaiser wrote:
> Aeronauts,
>
> I've started to re-write the members link page, please look for it at;
http://www.arhab.org/links.html
> . What I'd like you to do is take a look, send me any corrections,
> additions, or if you know I should... removals.
>
> I know this is not complete, but this is all of the icons I currently
> have. If you group does not have an icon, let me know what I can put
> in that space. For example, can I use the letters of your name i.e.
> BNSP? Please send me too much information instead of not enough. I at
> least want an icon, eMail address for a contact, web site, etc. I plan
> to link eventually to the records page and pick up individual records
> to put on this page too. But that is a later effort.
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> I won't turn down any advise or ideas you have either. This is the 4th
> of the web sites that Ralph had originally published. It's amazing how
> much work that man was doing for all of us... WOW!
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> 73's
> Keith Kaiser
> wa0tjt@...
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6019. Re: [GPSL] ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-09 01:12:21 UTC
From: Zack Clobes
Topic: 6016 Message: 6019

Traveler (technically Project: Traveler) has moved sites to:

http://www.projecttraveler.org/traveler/

Thanks.

On Tue, Sep 8, 2009 at 8:05 PM, Mike Manes <mrmanes@...> wrote:

>
>
> Looks great Keith. FB!
> Tnx es 73 de Mike W5VSI, EOSS
>
>
> Keith Kaiser wrote:
> > Aeronauts,
> >
> > I've started to re-write the members link page, please look for it at;
> http://www.arhab.org/links.html
> > . What I'd like you to do is take a look, send me any corrections,
> > additions, or if you know I should... removals.
> >
> > I know this is not complete, but this is all of the icons I currently
> > have. If you group does not have an icon, let me know what I can put
> > in that space. For example, can I use the letters of your name i.e.
> > BNSP? Please send me too much information instead of not enough. I at
> > least want an icon, eMail address for a contact, web site, etc. I plan
> > to link eventually to the records page and pick up individual records
> > to put on this page too. But that is a later effort.
> >
> > I won't turn down any advise or ideas you have either. This is the 4th
> > of the web sites that Ralph had originally published. It's amazing how
> > much work that man was doing for all of us... WOW!
> >
> > 73's
> > Keith Kaiser
> > wa0tjt@gmail.com <wa0tjt%40gmail.com>
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> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6020. GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 01:42:12 UTC
From: Zack Clobes
Topic: 6020 Message: 6020

Right now I'm thinking of either the weekend of July 17 or July 24. Does anyone feel strongly either way?

Unless I can come up with something novel, I'm leaning towards keeping Thursday pretty simple - maybe a trip to the space museum in the evening for those who are in town.

Zack Clobes, W0ZC
Project: Traveler

6021. RE: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 01:51:29 UTC
From: Nick Hanks
Topic: 6020 Message: 6021

Hi Zach,

We appreciate you working the dates early. EOSS has a flight scheduled for 17 July with the Univ of Colorado. The 24th would be fine or the first weekend in Aug.

Nick

N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Thursday, September 10, 2009 19:42
To: Group GPSL
Subject: [GPSL] GPSL 2010 Dates

Right now I'm thinking of either the weekend of July 17 or July 24. Does anyone feel strongly either way?

Unless I can come up with something novel, I'm leaning towards keeping Thursday pretty simple - maybe a trip to the space museum in the evening for those who are in town.

Zack Clobes, W0ZC
Project: Traveler

6022. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 03:29:29 UTC
From: Mark Conner
Topic: 6020 Message: 6022

I would prefer the 24th, or even the 31st. Mid to late July is pretty busy for our family.

Speaking of which, GPSL 2011 will probably be 7-10 July unless there's a preference for 30 June-3 July (the 4th is Monday in 2011). For me to do the necessary prep work in mid July to support a late July GPSL weekend would be nearly impossible. I'm tentatively planning a tour of the Strategic Air and Space Museum (formerly the SAC Museum) for the Thursday afternoon activity.

73 de Mark N9XTN

On Thu, Sep 10, 2009 at 20:42, Zack Clobes <zclobes@...> wrote:

>
>
> Right now I'm thinking of either the weekend of July 17 or July 24. Does
> anyone feel strongly either way?
>
> Unless I can come up with something novel, I'm leaning towards keeping
> Thursday pretty simple - maybe a trip to the space museum in the evening for
> those who are in town.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>

6023. CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 17:00:34 UTC
From: L. Paul Verhage
Topic: 6023 Message: 6023

This is way too cool. I've started playing with a Canon A550 after hearing Mark and Mike's comments. So far I've created a simple intervalometer that replaces the relay driven cameras I've used in the past. Since the A550 is not an S series camera, I don't have access to the flash. So I've manaully shut that off. Next I'd like to write the code for a camera pointed downward. It would take pictures more frequently at low altitude and less frequently at high altitude.

I wonder about using the lightning detection code to detect balloon burst, or if the expansion and movement of the balloon would be too much and trigger false positives.

--
Onwards and Upwards,
Paul

6024. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 17:16:30 UTC
From: Pete Lilja
Topic: 6023 Message: 6024

CHDK is the shizzle. There are so many scripts out there doing so many things it's amazing.

The lightning detection script is a fast motion detector. The camera compares user selectable grids (select the number of squares in the view screen) for changes. It's 'sensitivity' is also selectable. While there would be a learning curve I am sure the script would do what you'd like.

I recently went to the Pyrotechnics Guild International's convention in Mason City, Iowa and used a motion detection script to photograph the fireworks. It worked very well in triggering the camera when the fireworks lit. http://s33.photobucket.com/albums/d94/bigheadpete/PGI%202009/

Pete

On Fri, Sep 11, 2009 at 12:00 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> This is way too cool. I've started playing with a Canon A550 after hearing
> Mark and Mike's comments. So far I've created a simple intervalometer that
> replaces the relay driven cameras I've used in the past. Since the A550 is
> not an S series camera, I don't have access to the flash. So I've manaully
> shut that off. Next I'd like to write the code for a camera pointed
> downward. It would take pictures more frequently at low altitude and less
> frequently at high altitude.
>
> I wonder about using the lightning detection code to detect balloon
> burst, or if the expansion and movement of the balloon would be too much and
> trigger false positives.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6025. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 17:50:38 UTC
From: L. Paul Verhage
Topic: 6023 Message: 6025

I'm going to add a sidebar to a future article about CDHK. I'll need to know which indivduals brought up CDHK on the list so I can give them credit. I can start searching old posts, but if you recall bringing p CDHK, let me know.

Now, if I could just get the Canon cameras for less.

Thanks,
Paul

On Fri, Sep 11, 2009 at 12:16 PM, Pete Lilja <plilja@...> wrote:

>
>
> CHDK is the shizzle. There are so many scripts out there doing so many
> things it's amazing.
>
> The lightning detection script is a fast motion detector. The camera
> compares user selectable grids (select the number of squares in the view
> screen) for changes. It's 'sensitivity' is also selectable. While there
> would be a learning curve I am sure the script would do what you'd like.
>
> I recently went to the Pyrotechnics Guild International's convention in
> Mason City, Iowa and used a motion detection script to photograph the
> fireworks. It worked very well in triggering the camera when the fireworks
> lit. http://s33.photobucket.com/albums/d94/bigheadpete/PGI%202009/
>
> Pete
>
> On Fri, Sep 11, 2009 at 12:00 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> This is way too cool. I've started playing with a Canon A550 after
>> hearing Mark and Mike's comments. So far I've created a simple
>> intervalometer that replaces the relay driven cameras I've used in
>> the past. Since the A550 is not an S series camera, I don't have access to
>> the flash. So I've manaully shut that off. Next I'd like to write the code
>> for a camera pointed downward. It would take pictures more frequently at
>> low altitude and less frequently at high altitude.
>>
>> I wonder about using the lightning detection code to detect balloon
>> burst, or if the expansion and movement of the balloon would be too much and
>> trigger false positives.
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>> --

>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

6026. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 19:15:37 UTC
From: James Hannon
Topic: 6023 Message: 6026

I was excited when I read about CHDK a while back until I started looking for cameras on their compatibility list to buy. Not too many of the current Canon offerings are on the list.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 9/11/2009 12:50:38 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] CHDKI'm going to add a sidebar to a future article about CDHK. I'll need to know which indivduals brought up CDHK on the list so I can give them credit. I can start searching old posts, but if you recall bringing p CDHK, let me know. Now, if I could just get the Canon cameras for less. Thanks,PaulOn Fri, Sep 11, 2009 at 12:16 PM, Pete Lilja <plilja@...> wrote:CHDK is the shizzle. There are so many scripts out there doing so many things it's amazing. The lightning detection script is a fast motion detector. The camera compares user selectable grids (select the number of squares in the view screen) for changes. It's 'sensitivity' is also selectable. While there would be a learning curve I am sure the script would do what you'd like. I recently went to the Pyrotechnics Guild International's convention in Mason City, Iowa and used a motion detection script to photograph the fireworks. It worked very well in triggering the camera when the fireworks lit. http://s33.photobucket.com/albums/d94/bigheadpete/PGI%202009/ PeteOn Fri, Sep 11, 2009 at 12:00 PM, L. Paul Verhage <nearsys@...> wrote: This is way too cool. I've started playing with a Canon A550 after hearing Mark and Mike's comments. So far I've created a simple intervalometer that replaces the relay driven cameras I've used in the past. Since the A550 is not an S series camera, I don't have access to the flash. So I've manaully shut that off. Next I'd like to write the code for a camera pointed downward. It would take pictures more frequently at low altitude and less frequently at high altitude. I wonder about using the lightning detection code to detect balloon burst, or if the expansion and movement of the balloon would be too much and trigger false positives.
--
Onwards and Upwards,
Paul
--
Onwards and Upwards,
Paul

6027. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 19:28:38 UTC
From: L. Paul Verhage
Topic: 6023 Message: 6027

The Canon A550 was pretty cheap (about $150 compared to the other Canons)
and 7.1 MP. I found mine listed under Amazon.com

Paul

On Fri, Sep 11, 2009 at 2:15 PM, James Hannon <jmhannon@...> wrote:

>
>
> I was excited when I read about CHDK a while back until I started looking
> for cameras on their compatibility list to buy. Not too many of the current
> Canon offerings are on the list.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 9/11/2009 12:50:38 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] CHDK
>
> I'm going to add a sidebar to a future article about CDHK. I'll need to
> know which indivduals brought up CDHK on the list so I can give them
> credit. I can start searching old posts, but if you recall bringing p CDHK,
> let me know.
>
> Now, if I could just get the Canon cameras for less.
>
> Thanks,
> Paul
>
> On Fri, Sep 11, 2009 at 12:16 PM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> CHDK is the shizzle. There are so many scripts out there doing so many
>> things it's amazing.
>>
>> The lightning detection script is a fast motion detector. The camera
>> compares user selectable grids (select the number of squares in the view
>> screen) for changes. It's 'sensitivity' is also selectable. While there
>> would be a learning curve I am sure the script would do what you'd like.

>>
>> I recently went to the Pyrotechnics Guild International's convention in
>> Mason City, Iowa and used a motion detection script to photograph the
>> fireworks. It worked very well in triggering the camera when the fireworks
>> lit. http://s33.photobucket.com/albums/d94/bigheadpete/PGI%202009/
>>
>> Pete
>>
>> On Fri, Sep 11, 2009 at 12:00 PM, L. Paul Verhage <nearsys@...>wrote:
>>
>>>
>>>
>>> This is way too cool. I've started playing with a Canon A550 after
>>> hearing Mark and Mike's comments. So far I've created a simple
>>> intervalometer that replaces the relay driven cameras I've used in
>>> the past. Since the A550 is not an S series camera, I don't have access to
>>> the flash. So I've manaully shut that off. Next I'd like to write the code
>>> for a camera pointed downward. It would take pictures more frequently at
>>> low altitude and less frequently at high altitude.
>>>
>>> I wonder about using the lightning detection code to detect balloon
>>> burst, or if the expansion and movement of the balloon would be too much and
>>> trigger false positives.
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>>> --
>>> Onwards and Upwards,
>>> Paul
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

6028. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 19:33:03 UTC
From: Pete Lilja
Topic: 6023 Message: 6028

Check again. It seems they're constantly cracking new cameras and getting
them ported for CHDK. You can often find cameras that work by looking on
Amazon and eBay for leftovers and refurbs.

On Fri, Sep 11, 2009 at 2:15 PM, James Hannon <jmhannon@...> wrote:

>
>
> I was excited when I read about CHDK a while back until I started looking
> for cameras on their compatibility list to buy. Not too many of the current
> Canon offerings are on the list.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 9/11/2009 12:50:38 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] CHDK
>
> I'm going to add a sidebar to a future article about CDHK. I'll need to
> know which indivduals brought up CDHK on the list so I can give them
> credit. I can start searching old posts, but if you recall bringing p CDHK,
> let me know.
>
> Now, if I could just get the Canon cameras for less.
>
> Thanks,
> Paul
>
> On Fri, Sep 11, 2009 at 12:16 PM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> CHDK is the shizzle. There are so many scripts out there doing so many
>> things it's amazing.
>>
>> The lightning detection script is a fast motion detector. The camera
>> compares user selectable grids (select the number of squares in the view
>> screen) for changes. It's 'sensitivity' is also selectable. While there
>> would be a learning curve I am sure the script would do what you'd like.

>>
>> I recently went to the Pyrotechnics Guild International's convention in
>> Mason City, Iowa and used a motion detection script to photograph the
>> fireworks. It worked very well in triggering the camera when the fireworks
>> lit. http://s33.photobucket.com/albums/d94/bigheadpete/PGI%202009/
>>
>> Pete
>>
>> On Fri, Sep 11, 2009 at 12:00 PM, L. Paul Verhage <nearsys@...>wrote:
>>
>>>
>>>
>>> This is way too cool. I've started playing with a Canon A550 after
>>> hearing Mark and Mike's comments. So far I've created a simple
>>> intervalometer that replaces the relay driven cameras I've used in
>>> the past. Since the A550 is not an S series camera, I don't have access to
>>> the flash. So I've manaully shut that off. Next I'd like to write the code
>>> for a camera pointed downward. It would take pictures more frequently at
>>> low altitude and less frequently at high altitude.
>>>
>>> I wonder about using the lightning detection code to detect balloon
>>> burst, or if the expansion and movement of the balloon would be too much and
>>> trigger false positives.
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
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> --
> Onwards and Upwards,
> Paul
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6029. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 20:29:39 UTC
From: Mark Conner
Topic: 6023 Message: 6029

I noticed today that recent CHDK builds include shutter control via the
USB port, so that is possible for those wishing for microcontroller control.

However, it's nice to have a camera that is not at all dependent on other
electronics to function. I put a 4 Gb card in mine and shoot at 15 second
intervals and still don't fill the card up after a 3-hour flight.

I did find that if you use a card larger than 4 Gb, you cannot have the
camera boot the card's firmware automatically on power-up. This is because
FAT32 is required to format an 8 Gb card and the auto-boot function only
works on FAT16 cards.

Also, about the fastest the camera can take pictures is 4-5 second
intervals. I think it'll burst at a faster rate but can't sustain it. I
was hoping to make a time-lapse movie of a hot-air balloon flight, but it
didn't come out all that good because of the long interval.
http://www.youtube.com/watch?v=xOpau2m3iyc

73 de Mark N9XTN

On Fri, Sep 11, 2009 at 12:00, L. Paul Verhage <nearsys@...> wrote:

>
>
> This is way too cool. I've started playing with a Canon A550 after hearing
> Mark and Mike's comments. So far I've created a simple intervalometer that
> replaces the relay driven cameras I've used in the past. Since the A550 is
> not an S series camera, I don't have access to the flash. So I've manaully
> shut that off. Next I'd like to write the code for a camera pointed
> downward. It would take pictures more frequently at low altitude and less
> frequently at high altitude.
>
> I wonder about using the lightning detection code to detect balloon
> burst, or if the expansion and movement of the balloon would be too much and
> trigger false positives.
>
> --
> Onwards and Upwards,
> Paul
>
>

6030. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 21:53:48 UTC
From: Zack Clobes
Topic: 6020 Message: 6030

OK, so I'm hearing the weekend of July 23-25, 2010 for GPSL? Objections
before I get things set into motion?

Personally, August is looking pretty busy for me, and the holiday
week/weekends don't work well for my crew.

Zack

> On Fri, Sep 11, 2009 at 1:03 AM, <wb8elk@...> wrote:
>
>> I'd lean towards July 17th but both are fine with me.
>>
>> - Bill WB8ELK
>>
>>
>> -----Original Message-----
>> From: Zack Clobes <zclobes@...>
>> To: Group GPSL <GPSL@yahoogroups.com>
>> Sent: Thu, Sep 10, 2009 8:42 pm
>> Subject: [GPSL] GPSL 2010 Dates
>>
>>
>> Right now I'm thinking of either the weekend of July 17 or July 24.
>> Does anyone feel strongly either way?
>>
>> Unless I can come up with something novel, I'm leaning towards keeping
>> Thursday pretty simple - maybe a trip to the space museum in the evening for
>> those who are in town.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>>
>
>

6031. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 22:52:06 UTC
From: BASE
Topic: 6020 Message: 6031

Zack,

July 23-25 is fine with BASE, We should be there.

Thanks for hosting,
Howard

--- On Fri, 9/11/09, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: Re: [GPSL] GPSL 2010 Dates
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Friday, September 11, 2009, 5:53 PM

OK, so I'm hearing the weekend of July 23-25, 2010 for GPSL? Objections before I get things set into motion?

Personally, August is looking pretty busy for me, and the holiday week/weekends don't work well for my crew.

Zack

On Fri, Sep 11, 2009 at 1:03 AM, <wb8elk@...> wrote:

I'd lean towards July 17th but both are fine with me.

- Bill WB8ELK

-----Original Message-----

From: Zack Clobes <zclobes@gmail. com>

To: Group GPSL <GPSL@yahoogroups. com>

Sent: Thu, Sep 10, 2009 8:42 pm

Subject: [GPSL] GPSL 2010 Dates

Right now I'm thinking of either the weekend of July 17 or July 24. Does anyone feel strongly either way?

Unless I can come up with something novel, I'm leaning towards keeping Thursday pretty simple - maybe a trip to the space museum in the evening for those who are in town.

Zack Clobes, W0ZC

Project: Traveler

6032. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-11 23:20:56 UTC
From: Pete Lilja
Topic: 6020 Message: 6032

Never having been to a GPSL but wanting to go I like the idea of setting the dates this far in advance. My vacation time is picked in December for the following year and changing it is difficult if not impossible.

Pete

On Fri, Sep 11, 2009 at 4:53 PM, Zack Clobes <zclobes@...> wrote:

>
>
> OK, so I'm hearing the weekend of July 23-25, 2010 for GPSL? Objections
> before I get things set into motion?
>
> Personally, August is looking pretty busy for me, and the holiday
> week/weekends don't work well for my crew.
>
> Zack
>
>
>
>> On Fri, Sep 11, 2009 at 1:03 AM, <wb8elk@...> wrote:
>>
>>> I'd lean towards July 17th but both are fine with me.
>>>
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: Zack Clobes <zclobes@...>
>>> To: Group GPSL <GPSL@yahoogroups.com>
>>> Sent: Thu, Sep 10, 2009 8:42 pm
>>> Subject: [GPSL] GPSL 2010 Dates
>>>
>>>
>>> Right now I'm thinking of either the weekend of July 17 or July 24.
>>> Does anyone feel strongly either way?
>>>
>>> Unless I can come up with something novel, I'm leaning towards keeping
>>> Thursday pretty simple - maybe a trip to the space museum in the evening for
>>> those who are in town.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>>
>>
>>

>
>

6033. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-12 16:16:59 UTC
From: L. Paul Verhage
Topic: 6020 Message: 6033

Zack, that will work for NearSys.

Thanks for hosting. I'll shake the cages for handouts again.

Does anyone have good contacts that they could ask for door prizes?
Paul
On Fri, Sep 11, 2009 at 6:20 PM, Pete Lilja <plilja@...> wrote:

>
>
> Never having been to a GPSL but wanting to go I like the idea of setting
> the dates this far in advance. My vacation time is picked in December for
> the following year and changing it is difficult if not impossible.
>
> Pete
>
> On Fri, Sep 11, 2009 at 4:53 PM, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> OK, so I'm hearing the weekend of July 23-25, 2010 for GPSL? Objections
>> before I get things set into motion?
>>
>> Personally, August is looking pretty busy for me, and the holiday
>> week/weekends don't work well for my crew.
>>
>> Zack
>>
>>
>>
>>> On Fri, Sep 11, 2009 at 1:03 AM, <wb8elk@...> wrote:
>>>
>>>> I'd lean towards July 17th but both are fine with me.
>>>>
>>>> - Bill WB8ELK
>>>>
>>>>
>>>> -----Original Message-----
>>>> From: Zack Clobes <zclobes@...>
>>>> To: Group GPSL <GPSL@yahoogroups.com>
>>>> Sent: Thu, Sep 10, 2009 8:42 pm
>>>> Subject: [GPSL] GPSL 2010 Dates
>>>>
>>>>
>>>> Right now I'm thinking of either the weekend of July 17 or July 24.
>>>> Does anyone feel strongly either way?

>>>>
>>>> Unless I can come up with something novel, I'm leaning towards keeping
>>>> Thursday pretty simple - maybe a trip to the space museum in the evening for
>>>> those who are in town.
>>>>
>>>> Zack Clobes, W0ZC
>>>> Project: Traveler
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Onwards and Upwards,
Paul

6034. Re: [GPSL] CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-12 16:07:40 UTC
From: L. Paul Verhage
Topic: 6023 Message: 6034

I just read about the USB shutter control myself. I'll look into that in
the next week or so.

Paul

On Fri, Sep 11, 2009 at 3:29 PM, Mark Conner <mconner1@...> wrote:

>
>
> I noticed today that recent CHDK builds include shutter control via the
> USB port, so that is possible for those wishing for microcontroller control.
>
> However, it's nice to have a camera that is not at all dependent on other
> electronics to function. I put a 4 Gb card in mine and shoot at 15 second
> intervals and still don't fill the card up after a 3-hour flight.
>
> I did find that if you use a card larger than 4 Gb, you cannot have the
> camera boot the card's firmware automatically on power-up. This is because
> FAT32 is required to format an 8 Gb card and the auto-boot function only
> works on FAT16 cards.
>
> Also, about the fastest the camera can take pictures is 4-5 second
> intervals. I think it'll burst at a faster rate but can't sustain it. I
> was hoping to make a time-lapse movie of a hot-air balloon flight, but it
> didn't come out all that good because of the long interval.
> http://www.youtube.com/watch?v=xOpau2m3iyc
>
> 73 de Mark N9XTN
>
>
>
>
> On Fri, Sep 11, 2009 at 12:00, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> This is way too cool. I've started playing with a Canon A550 after
>> hearing Mark and Mike's comments. So far I've created a simple
>> intervalometer that replaces the relay driven cameras I've used in
>> the past. Since the A550 is not an S series camera, I don't have access to
>> the flash. So I've manaully shut that off. Next I'd like to write the code
>> for a camera pointed downward. It would take pictures more frequently at
>> low altitude and less frequently at high altitude.
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>> I wonder about using the lightning detection code to detect balloon
>> burst, or if the expansion and movement of the balloon would be too much and

>> trigger false positives.
>>
>> --
>> Onwards and Upwards,
>> Paul
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>

--
Onwards and Upwards,
Paul

6035. Re: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-12 21:01:13 UTC
From: Ronald Cathcart
Topic: 6020 Message: 6035

Zack,

Date sounds good for myself - Thanks for taking it on, looking forward to it.

Ron Cathcart
AKA Michigan boys

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Saturday, September 12, 2009 12:16 PM
Subject: Re: [GPSL] GPSL 2010 Dates

Zack, that will work for NearSys.

Thanks for hosting. I'll shake the cages for handouts again.

Does anyone have good contacts that they could ask for door prizes?

Paul

On Fri, Sep 11, 2009 at 6:20 PM, Pete Lilja <plilja@...> wrote:

Never having been to a GPSL but wanting to go I like the idea of setting the dates this far in advance. My vacation time is picked in December for the following year and changing it is difficult if not impossible.

Pete

On Fri, Sep 11, 2009 at 4:53 PM, Zack Clobes <zclobes@...> wrote:

OK, so I'm hearing the weekend of July 23-25, 2010 for GPSL? Objections before I get things set into motion?

Personally, August is looking pretty busy for me, and the holiday week/weekends don't work well for my crew.

Zack

On Fri, Sep 11, 2009 at 1:03 AM, <wb8elk@...> wrote:

I'd lean towards July 17th but both are fine with me.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Thu, Sep 10, 2009 8:42 pm

Subject: [GPSL] GPSL 2010 Dates

Right now I'm thinking of either the weekend of July 17 or July 24. Does anyone feel strongly either way?

Unless I can come up with something novel, I'm leaning towards keeping Thursday pretty simple - maybe a trip to the space museum in the evening for those who are in town.

Zack Clobes, W0ZC
Project: Traveler

--
Onwards and Upwards,
Paul

6036. 2010 GPSL date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-12 21:56:45 UTC
From: Jerome Doerrie
Topic: 6036 Message: 6036

Zack, thanks for hosting. I know it is difficult to find a date. The 3rd and 4th weekends of July do not work for us at Reach For Space. July 30/31 would be better. Jerome K5IS

6037. Re: [GPSL] 2010 GPSL date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-12 22:12:02 UTC
From: W5BL@sbcglobal.net
Topic: 6036 Message: 6037

I believe the weekend of July 30 & 31 would work best for ARBONET as I think the previous weekend conflicts with the Central States VHF Society meeting in St. Louis.

73,

Doug, W5BL
Sent via BlackBerry by AT&T

-----Original Message-----
From: Jerome Doerrie <k5is@...>

Date: Sat, 12 Sep 2009 14:56:45
To: <GPSL@yahoogroups.com>
Subject: [GPSL] 2010 GPSL date

Zack, thanks for hosting. I know it is difficult to find a date. The 3rd and 4th weekends of July do not work for us at Reach For Space. July 30/31 would be better. Jerome K5IS

6038. Re: ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-13 00:18:39 UTC
From: jjdemeyer
Topic: 6016 Message: 6038

Thanks, Keith!

I would prefer Surfing Satellites to all upper case.

Thanks,

Joe
Surfing Satellites

--- In GPSL@yahoogroups.com, Keith Kaiser <wa0tjt@...> wrote:
>
> Aeronauts,
>
> I've started to re-write the members link page, please look for it at;
http://www.arhab.org/links.html
> . What I'd like you to do is take a look, send me any corrections,
> additions, or if you know I should... removals.
>
> I know this is not complete, but this is all of the icons I currently
> have. If you group does not have an icon, let me know what I can put
> in that space. For example, can I use the letters of your name i.e.
> BNSP? Please send me too much information instead of not enough. I at
> least want an icon, eMail address for a contact, web site, etc. I plan
> to link eventually to the records page and pick up individual records
> to put on this page too. But that is a later effort.
>
> I won't turn down any advise or ideas you have either. This is the 4th
> of the web sites that Ralph had originally published. It's amazing how
> much work that man was doing for all of us... WOW!
>
> 73's
> Keith Kaiser
> wa0tjt@...
>

6039. Re: [GPSL] Re: ARHAB Member Links

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-13 01:20:56 UTC
From: Keith Kaiser
Topic: 6016 Message: 6039

I've converted it to uppercase. Just out of curiosity, why? Especially since you don't use all uppercase?

On Sep 12, 2009, at 7:18 PM, jjdemeyer wrote:

> Thanks, Keith!
>
> I would prefer Surfing Satellites to all upper case.
>
> Thanks,
>
> Joe
> Surfing Satellites
>
> --- In GPSL@yahoogroups.com, Keith Kaiser <wa0tjt@...> wrote:
> >
> > Aeronauts,
> >
> > I've started to re-write the members link page, please look for it
> at; http://www.arhab.org/links.html
> > . What I'd like you to do is take a look, send me any corrections,
> > additions, or if you know I should... removals.
> >
> > I know this is not complete, but this is all of the icons I
> currently
> > have. If you group does not have an icon, let me know what I can put
> > in that space. For example, can I use the letters of your name i.e.
> > BNSP? Please send me too much information instead of not enough. I
> at
> > least want an icon, eMail address for a contact, web site, etc. I
> plan
> > to link eventually to the records page and pick up individual
> records
> > to put on this page too. But that is a later effort.
> >
> > I won't turn down any advise or ideas you have either. This is the
> 4th
> > of the web sites that Ralph had originally published. It's amazing
> how
> > much work that man was doing for all of us... WOW!
> >
> > 73's
> > Keith Kaiser
> > wa0tjt@...
> >

>
>

73's
Keith Kaiser
wa0tjt@...

6040. Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-13 14:12:46 UTC
From: Bruce Coates
Topic: 5818 Message: 6040
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Everyone

Well, we flew the Venus GPS logger on SABRE-7 yesterday and the results were inconclusive. I built a small package with a 250 mAh LiPo battery that would power the tracker for about 3 hours. The problem is that we underfilled the balloon and with barely 400 fpm of initial lift, it took 3 hours to reach 60,000. That's when either the GPS shut down or the battery quit. Rats! My gut feeling is that it was the battery but I can't be sure. I'm attaching all of my data and will let each of you make up your own minds.

One thing I did find during testing is that the current draw listed on the Sparkfun web page is very misleading. This current listed is only for the GPS. With the data logger circuitry it runs at about 60 mA. That explains why I only get 3 hours from a 250 mAh LiPo. Still very respectable. I also found that it worked great with just a passive patch antenna. Even with the passive antenna it was tracking 8 or more satellites outside, 4-6 in the living room and often 3-5 in the basement. That will save you another 10 mA. The GPS also runs quite warm to the touch so it should generate enough heat to keep itself and its batteries nice and warm with a bit of insulation.

This on is going to fly on our next flight, possibly next month. I'll keep you posted.

73, Bruce
VE5BNC

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Thursday, August 13, 2009 6:42 AM
Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

So does it work above 60,000 feet. Inquirying minds wnat to know.

On Wed, Aug 12, 2009 at 11:16 PM, Bruce Coates <bruce.coates@...> wrote:

Hi Greg

I just got mine and and it definitely does log the altitude. I even checked with the manufacturer just to be certain. It's also pretty efficient ac compressing the data. I cranked up the logging on mine to once per second and it recorded over 11 an a half minutes of data in just 6 kilobytes of memory or about a 10:1 compression ratio. Once you use the Log Decompress feature in Skytraq you end up with a clear text file in the format shown below. it also generates a KML file. Very cool. I hope to get this little fella up on our next flight later this month.

WNO TOW Time Date DECEF_X DECEF_Y DECEF_Z ECEF_X ECEF_Y ECEF_Z Speed Longitude Latitude Altitude Mode
1544 359629 3:53:35 8/13/2009 0 0 0 -1123972 -3762406 5009647 0 -106.633 52.09633 319.2962

1
1544 359634 3:53:40 8/13/2009 0 0 0 -1123972 -3762406 5009647 0 -106.633 52.09633 319.2962
2
1544 359639 3:53:45 8/13/2009 0 0 1 -1123972 -3762406 5009648 0 -106.633 52.09633 320.0852
2
1544 359644 3:53:50 8/13/2009 0 0 0 -1123972 -3762406 5009648 0 -106.633 52.09633 320.0852
2
1544 359649 3:53:55 8/13/2009 0 1 0 -1123972 -3762405 5009648 0 -106.633 52.09634 319.4966
2
1544 359654 3:54:00 8/13/2009 -1 0 1 -1123973 -3762405 5009649 0 -106.633 52.09634 320.4615
2

73, Bruce
VE5BNC

----- Original Message -----
From: k7rkt
To: GPSL@yahoogroups.com
Sent: Monday, July 27, 2009 10:19 PM
Subject: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=9171
>

I have one of these. It doesn't log the altitude.

Greg K7RKT

--
Onwards and Upwards,
Paul

6041. Re: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-13 14:50:00 UTC
From: Ed Moore
Topic: 5818 Message: 6041

Hi,

We've had some success with the Venus GPS. It's integrated into our 'BadgerCub' flight computer:

http://www.cuspaceflight.co.uk/wiki/doku.php?id=badgercub

It flew successfully onboard the Nova 14 flight (above 60,000 ft):

http://www.cuspaceflight.co.uk/wiki/doku.php?id=nova_14

Some remarks:

- Check the design guidelines document carefully (http://www.sparkfun.com/datasheets/GPS/Modules/DesignNoticeOnCommonMistakes.pdf) - we've had to add a couple of green wires as a result of not reading it thoroughly first time round.

- As far as we can see, the binary protocol seems to be documented for setup only - i.e. the format of the binary nav data isn't published.

- The NMEA strings are fine for position fixes but don't give very good velocity information

- We've had an as yet unresolved issue where the GPS would stay in reset when the PPS signal was connected to the uC even though the uC pin was set as an input - could just be a mistake on our part we haven't figured out yet, but something to check if you are getting odd behaviour.

- Got (anecdotally) really great performance when teamed up with the Sarantel Antenna (SL1204). Got a lock upside down in our dungeon of a work-space where we haven't seen other GPS's lock very easily.

If we can answer any other questions, we will - we're in active development of the firmware for Badger2 (http://www.cuspaceflight.co.uk/wiki/doku.php?id=badger2) so we have datasheets and code at the tips of our fingers.

Fergus and Ed
Cambridge University Spaceflight
http://www.cuspaceflight.co.uk

On 13 Sep 2009, at 15:12, Bruce Coates wrote:

> [Attachment(s) from Bruce Coates included below]
>

>
> Hi Everyone
>
> Well, we flew the Venus GPS logger on SABRE-7 yesterday and the
> results were inconclusive. I built a small package with a 250 mAh
> LiPo battery that would power the tracker for about 3 hours. The
> problem is that we underfilled the balloon and with barely 400 fpm
> of initial lift, it took 3 hours to reach 60,000. That's when
> either the GPS shut down or the battery quit. Rats! My gut feeling
> is that it was the battery but I can't be sure. I'm attaching all
> of my data and will let each of you make up your own minds.
>
> One thing I did find during testing is that the current draw listed
> on the Sparkfun web page is very misleading. This current listed is
> only for the GPS. With the data logger circuitry it runs at about
> 60 mA. That explains why I only get 3 hours from a 250 mAh LiPo.
> Still very respectable. I also found that it worked great with just
> a passive patch antenna. Even with the passive antenna it was
> tracking 8 or more satellites outside, 4-6 in the living room and
> often 3-5 in the basement. That will save you another 10 mA. The
> GPS also runs quite warm to the touch so it should generate enough
> heat to keep itself and its batteries nice and warm with a bit of
> insulation.
>
> This on is going to fly on our next flight, possibly next month.
> I'll keep you posted.
>
> 73, Bruce
> VE5BNC
>
> ----- Original Message -----
> From: L. Paul Verhage
> To: GPSL@yahoogroups.com
> Sent: Thursday, August 13, 2009 6:42 AM
> Subject: Re: [GPSL] Re: Possibled balloon-suitable GPS module at
> SparkFun
>
>
> So does it work above 60,000 feet. Inquirying minds wnat to know.
>
> On Wed, Aug 12, 2009 at 11:16 PM, Bruce Coates <bruce.coates@...
> > wrote:
>
>
> Hi Greg
>
> I just got mine and and it definitely does log the altitude. I even
> checked with the manufacturer just to be certain. It's also pretty
> efficient ac compressing the data. I cranked up the logging on mine
> to once per second and it recorded over 11 an a half minutes of data

> in just 6 kilobytes of memory or about a 10:1 compression ratio.
> Once you use the Log Decompress feature in Skytraq you end up with a
> clear text file in the format shown below. it also generates a KML
> file. Very cool. I hope to get this little fella up on our next
> flight later this month.
>
> WNO TOW Time Date DECEF_X DECEF_Y DECEF_Z ECEF_X ECEF_Y ECEF_Z Speed
> Longitude Latitude Altitude Mode
> 1544 359629 3:53:35 8/13/2009 0 0 0 -1123972 -3762406 5009647
> 0 -106.633 52.09633 319.2962 1
> 1544 359634 3:53:40 8/13/2009 0 0 0 -1123972 -3762406 5009647
> 0 -106.633 52.09633 319.2962 2
> 1544 359639 3:53:45 8/13/2009 0 0 1 -1123972 -3762406 5009648
> 0 -106.633 52.09633 320.0852 2
> 1544 359644 3:53:50 8/13/2009 0 0 0 -1123972 -3762406 5009648
> 0 -106.633 52.09633 320.0852 2
> 1544 359649 3:53:55 8/13/2009 0 1 0 -1123972 -3762405 5009648
> 0 -106.633 52.09634 319.4966 2
> 1544 359654 3:54:00 8/13/2009 -1 0 1 -1123973 -3762405 5009649
> 0 -106.633 52.09634 320.4615 2
>
> 73, Bruce
> VE5BNC
>
> ----- Original Message -----
> From: k7rkt
> To: GPSL@yahoogroups.com
> Sent: Monday, July 27, 2009 10:19 PM
> Subject: [GPSL] Re: Possibled balloon-suitable GPS module at SparkFun
>
>
>
> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
> >
> > http://www.sparkfun.com/commerce/product_info.php?products_id=9171
> >
>
> I have one of these. It doesn't log the altitude.
>
> Greg K7RKT
>
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>
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>
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>
>
> --
> Onwards and Upwards,

> Paul
>
>
>

6042. RE: [GPSL] GPSL 2010 Dates

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-14 15:07:37 UTC
From: Nick Hanks
Topic: 6020 Message: 6042

Hi Zach,

A bit more detail on the email below. EOSS has a flight scheduled on 31 July (and the 17th) with a Univ of Colorado Space Grant program.

Nick

From: Nick Hanks [mailto:ndhanks@...]
Sent: Thursday, September 10, 2009 19:51
To: 'GPSL@yahoogroups.com'
Subject: RE: [GPSL] GPSL 2010 Dates

Hi Zach,

We appreciate you working the dates early. EOSS has a flight scheduled for 17 July with the Univ of Colorado. The 24th would be fine or the first weekend in Aug.

Nick

N0LP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Thursday, September 10, 2009 19:42
To: Group GPSL
Subject: [GPSL] GPSL 2010 Dates

Right now I'm thinking of either the weekend of July 17 or July 24. Does anyone feel strongly either way?

Unless I can come up with something novel, I'm leaning towards keeping Thursday pretty simple - maybe a trip to the space museum in the evening for those who are in town.

Zack Clobes, W0ZC
Project: Traveler

6043. OT, Smart Beaconing and Second Profile

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-15 20:56:22 UTC
From: Pete Lilja
Topic: 6043 Message: 6043

I've finally gotten an Open Tracker + to fly in a HAB with a (n old) Kenwood THG71A and a new Garmin 18 (just confirmed by Garmin Tech Support to work above 65,000'). The OT + seems to work very well and thanks to all of you GPSLers that suggested it to me several months ago.

The OT+ offers some possibilities I'd like to ask your opinions.

Smart Beaconing: What are some good parameters to use for HABing? What do you use?

Profile 1/2: Being able to change transmission parameters based on so many inputs through Profile 1/2 also makes me wonder what other have done with this OT+ capability. What have you done with this in HABing?

Thanks,

Pete
KCØGPB

6044. Re: [GPSL] OT, Smart Beaconing and Second Profile

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-15 21:05:55 UTC
From: Mark Conner
Topic: 6043 Message: 6044

To my knowledge, no one uses smart beaconing for ARHAB. Most prefer regular intervals for transmissions. This is so that they can watch a clock and know when a transmission should be expected - if they don't hear one at the scheduled time, there's a problem.

Smart beaconing is normally done to detect sharp changes in direction (corner pegging) and to provide updates based more on distance rather than time (beacon more often when moving fast, much less when slow or stopped). For balloons, I still want packets once a minute whether the ground speed is 5 kts or 105 kts.

73 de Mark N9XTN
On Tue, Sep 15, 2009 at 15:56, Pete Lilja <plilja@...> wrote:

>
>
>
> Smart Beaconing: What are some good parameters to use for HABing? What do
> you use?
>
>

6045. $150 HAB mission in Massachusetts

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-16 03:10:53 UTC
From: Mark Conner
Topic: 6045 Message: 6045

http://www.wired.com/gadgetlab/2009/09/the-150-space-camera-mit-students-beat-nasa-on-beer-money-budget
?
http://space.1337arts.com/

Not bad for $150 total, and they got it back so they can do it again. All off the shelf, the only "hacking" was using a CHDK-controlled camera.

73 de Mark N9XTN

6046. Re: [GPSL] $150 HAB mission in Massachusetts

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-16 18:58:57 UTC
From: BASE
Topic: 6045 Message: 6046

The fact that they recovered the payload is amazing. As mentioned on the flight pictures page of their website,
http://space.1337arts.com/flight, they lost phone contact at 2500 feet on the ascent and visual contact after about 30 minutes. The loss of signal lasted almost three hours! They make reference to not having any altitude reported via the logs above 19,853 feet, and no transmissions after landing since the external antenna was buried in the soft earth.

The calm winds helped them tremendously since their predictions were from the Wyoming Balloon Trajectory program that uses ascent rates of about 900 feet/minute, and they estimated their ascent at about 400 feet/minute.

Sometimes it is nice to be lucky.

Howard

--- On Tue, 9/15/09, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: [GPSL] $150 HAB mission in Massachusetts
To: "GPSL list" <GPSL@yahoogroups.com>
Date: Tuesday, September 15, 2009, 11:10 PM

http://www.wired. com/gadgetlab/ 2009/09/the- 150-space- camera-mit- students- beat-nasa-on-beer-money- budget?

http://space. 1337arts. com/

Not bad for $150 total, and they got it back so they can do it again. All off the shelf, the only "hacking" was using a CHDK-controlled camera.

73 de Mark N9XTN

6047. Re: [GPSL] $150 HAB mission in Massachusetts

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-16 20:10:05 UTC
From: Mark Conner
Topic: 6045 Message: 6047

The PR on this is tremendous. I've seen this story pop up on some
national-level news/political blogs too.

It'll be interesting to see if this translates into a lot more attempts with
off-the-shelf components and equal (or less!) preparation. Their "$150"
cost neglected the helium, which was provided by a professor, so anyone
wanting to try this without any donations will be looking at a ~$250 cost.
A quarter-kilobuck may be over the pain threshold for many.

73 de Mark N9XTN

On Wed, Sep 16, 2009 at 13:58, BASE <basedepauw@...> wrote:

>
>
> The fact that they recovered the payload is amazing. As mentioned on
> the flight pictures page of their website,
> http://space.1337arts.com/flight, they lost phone contact at 2500 feet on
> the ascent and visual contact after about 30 minutes. The loss of signal
> lasted almost three hours! They make reference to not having any altitude
> reported via the logs above 19,853 feet, and no transmissions after landing
> since the external antenna was buried in the soft earth.
>
> The calm winds helped them tremendously since their predictions were from
> the Wyoming Balloon Trajectory program that uses ascent rates of about 900
> feet/minute, and they estimated their ascent at about 400 feet/minute.
>
> Sometimes it is nice to be lucky.
>
> Howard
>
> --- On *Tue, 9/15/09, Mark Conner <mconner1@...>* wrote:
>
>
> From: Mark Conner <mconner1@...>
> Subject: [GPSL] $150 HAB mission in Massachusetts
> To: "GPSL list" <GPSL@yahoogroups.com>
> Date: Tuesday, September 15, 2009, 11:10 PM
>
>
>
>
>
> http://www.wired. com/gadgetlab/ 2009/09/the- 150-space- camera-mit-
> students- beat-nasa- on-beer-money- budget<http://www.wired.com/gadgetlab/2009/09/the-15
0-space-camera-mit-students-beat-nasa-on-beer-money-budget>
> ?

> http://space. 1337arts. com/ <http://space.1337arts.com/>
>
> Not bad for $150 total, and they got it back so they can do it again. All
> off the shelf, the only "hacking" was using a CHDK-controlled camera.
>
> 73 de Mark N9XTN
>
>
>
>
>
>

6048. GPSL 2010 Date Set

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 00:28:20 UTC
From: Zack Clobes
Topic: 6048 Message: 6048

The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson, KS. I'm working on some sort of optional activity for Thursday evening. Sunday will be reserved as a rain-date.

I will be working to get the website updated as soon as I have a few more details nailed down. In the meantime, I'd like to encourage you all to join the GPSL Twitter feed. I will be using Twitter throughout the event to disseminate news, updates, and to coordinate events. I promise not to inundate you with meaningless Tweets!

www.twitter.com/superlaunch/

Zack Clobes, W0ZC
Project: Traveler

6049. Date for 2010 GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 03:38:58 UTC
From: Nick Hanks
Topic: 6049 Message: 6049

Hi GPSL'ers,

The dates for GPSL2010 in Hutchinson, KS are July 23 and 24. We'll go out on the 22nd and return the 25, assuming we don't need a rain date.

73,

Nick

6050. Re: [GPSL] GPSL 2010 Date Set

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 03:56:59 UTC
From: Mark Conner
Topic: 6048 Message: 6050

Oh, crap, so now I'm going to have to become a Twit to stay up on GPSL?

Seriously, though, I've thought about this for our NSTAR launches. Unfortunately, some other twit has taken twitter.com/nstar, used it twice last summer, quit. Argh. I know EOSS is using Twitter - has EOSS or any other group found Twitter to be useful for this?

73 de Mark N9XTN

On Wed, Sep 16, 2009 at 19:28, Zack Clobes <zclobes@...> wrote:

>
>
> The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson,
> KS. I'm working on some sort of optional activity for Thursday evening.
> Sunday will be reserved as a rain-date.
>
>
> I will be working to get the website updated as soon as I have a few more
> details nailed down. In the meantime, I'd like to encourage you all to join
> the GPSL Twitter feed. I will be using Twitter throughout the event to
> disseminate news, updates, and to coordinate events. I promise not to
> inundate you with meaningless Tweets!
>
> www.twitter.com/superlaunch/
>
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>

6051. Re: [GPSL] GPSL 2010 Date Set

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 10:41:20 UTC
From: BASE
Topic: 6048 Message: 6051

Mark,

BASE_DePauw is our twitter account. It only works when I remember to tweet :) Ideally, we'd tweet the prelaunch announcement, the launch, time to reach 18 kft, 60 kft, burst, landing, and recovery.

As of this morning, I am now following two accounts: EOSS and Superlaunch.

Howard

--- On Wed, 9/16/09, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] GPSL 2010 Date Set
To: GPSL@yahoogroups.com
Date: Wednesday, September 16, 2009, 11:56 PM

Oh, crap, so now I'm going to have to become a Twit to stay up on GPSL?

Seriously, though, I've thought about this for our NSTAR launches. Unfortunately, some other twit has taken twitter.com/ nstar, used it twice last summer, quit. Argh. I know EOSS is using Twitter - has EOSS or any other group found Twitter to be useful for this?

73 de Mark N9XTN

On Wed, Sep 16, 2009 at 19:28, Zack Clobes <zclobes@gmail. com> wrote:

The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson, KS. I'm working on some sort of optional activity for Thursday evening. Sunday will be reserved as a rain-date.

I will be working to get the website updated as soon as I have a few more details nailed down. In the meantime, I'd like to encourage you all to join the GPSL Twitter feed. I will be using Twitter throughout the event to disseminate news, updates, and to coordinate events. I promise not to inundate you with meaningless Tweets!

www.twitter. com/superlaunch/

Zack Clobes, W0ZC
Project: Traveler

6052. Re: [GPSL] GPSL 2010 Date Set

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 12:45:33 UTC
From: L. Paul Verhage
Topic: 6048 Message: 6052

I'm using Twitter for two accounts. The first is my Street Astronomer persona (streetastro) where I send out daily notes about what is happening in the sky. If you're in Kansas, you might want to listen in.

The second is NearSys (nearsys) where I give updates to my activities.

I also link the Tweets to my NearSys blog (nearsys.blogspot.com). In the blog I go into more details. Then there's the NearSys channel on YouTube where I post videos of activities that I mention in my tweets. I really need more time to do everything right.
:)

Paul

On Thu, Sep 17, 2009 at 5:41 AM, BASE <basedepauw@...> wrote:

>
>
> Mark,
>
> BASE_DePauw is our twitter account. It only works when I remember to tweet
> :) Ideally, we'd tweet the prelaunch announcement, the launch, time to
> reach 18 kft, 60 kft, burst, landing, and recovery.
>
> As of this morning, I am now following two accounts: EOSS and Superlaunch.
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> Howard
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>
>
> --- On *Wed, 9/16/09, Mark Conner <mconner1@...>* wrote:
>
>
> From: Mark Conner <mconner1@...>
> Subject: Re: [GPSL] GPSL 2010 Date Set
> To: GPSL@yahoogroups.com
> Date: Wednesday, September 16, 2009, 11:56 PM
>
>
>
>
>
> Oh, crap, so now I'm going to have to become a Twit to stay up on GPSL?
>
> Seriously, though, I've thought about this for our NSTAR launches.
> Unfortunately, some other twit has taken twitter.com/ nstar<http://twitter.com/nstar>,
> used it twice last summer, quit. Argh. I know EOSS is using Twitter - has

> EOSS or any other group found Twitter to be useful for this?
>
> 73 de Mark N9XTN
>
> On Wed, Sep 16, 2009 at 19:28, Zack Clobes <zclobes@gmail.
com<http://mc/compose?to=zclobes@...>
> > wrote:
>
>>
>>
>> The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson,
>> KS. I'm working on some sort of optional activity for Thursday evening.
>> Sunday will be reserved as a rain-date.
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>>
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>> disseminate news, updates, and to coordinate events. I promise not to
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>> www.twitter. com/superlaunch/ <http://www.twitter.com/superlaunch/>
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
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Onwards and Upwards,
Paul

6053. Re: [GPSL] $150 HAB mission in Massachusetts

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 14:34:59 UTC
From: Mike Manes
Topic: 6045 Message: 6053

Not counting gas money to recover it :=}.

It's notable that we ARHAB guys were doing the same gig with student
payloads and tracking beacons over 20 years ago.

73 de Mike W5VSI

Mark Conner wrote:
>
>
> http://www.wired.com/gadgetlab/2009/09/the-150-space-camera-mit-students-beat-nasa-on-beer-money-budget?
> http://space.1337arts.com/
>
> Not bad for $150 total, and they got it back so they can do it again.
> All off the shelf, the only "hacking" was using a CHDK-controlled camera.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6054. Re: Re: [GPSL] GPSL 2010 Date Set (Twitter question)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-17 21:54:07 UTC
From: gregwilliams@knology.net
Topic: 6054 Message: 6054

Spirit of Knoxville has a twitter at http://twitter.com/spiritofknox.

We havent updated it since April, but when we used it for the TA attempts it was very handy, and the followers were kept up to date with the latest telemetry.

Greg
K4HSM

On Wed 09/16/09 11:56 PM , Mark Conner mconner1@gmail.com sent:
> Oh, crap, so now I'm going to have to become a Twit to stay up
> on GPSL? Seriously, though, I've thought about this for our
> NSTAR launches. Unfortunately, some other twit has taken
> twitter.com/nstar [1], used it twice last summer, quit. Argh. I
> know EOSS is using Twitter - has EOSS or any other group found
> Twitter to be useful for this? 73 de Mark N9XTN
>
> On Wed, Sep 16, 2009 at 19:28, Zack Clobes wrote:
> The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in
> Hutchinson, KS. I'm working on some sort of optional activity
> for Thursday evening. Sunday will be reserved as a rain-date.
> I will be working to get the website updated as soon as I have a few
> more details nailed down. In the meantime, I'd like to
> encourage you all to join the GPSL Twitter feed. I will be using
> Twitter throughout the event to disseminate news, updates, and to
> coordinate events. I promise not to inundate you with meaningless
> Tweets!
> www.twitter.com/superlaunch/ [3]
> Zack Clobes, W0ZC
> Project: Traveler
>
>
> Links:
> ------
> [1] http://twitter.com/nstar
> [3] http://www.twitter.com/superlaunch/
> [4]
> http://groups.yahoo.com/group/GPSL/message/6048;_ylc=X3oDMTM0cjVtaGdtBF9TAz
> k3MzU5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzYwNTAEc2VjA
> 2Z0cgRzbGsDdnRwYwRzdGltZQMxMjUzMTU5ODk0BHRwY0lkAzYwNDg-[5]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwYTY0bmdjBF9TAzk3MzU5Nz
> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzYwNTAEc2VjA2Z0cgRzb
> GsDcnBseQRzdGltZQMxMjUzMTU5ODk0?act=reply&messageNum=6050[6]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlM3BqYjFwBF9TAzk3MzU5Nz
> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3Rpb
> WUDMTI1MzE1OTg5NA--[7]
> http://groups.yahoo.com/group/GPSL/messages;_ylc=X3oDMTJlcDZ1MjU1BF9TAzk3Mz

> U5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21zZ3MEc
> 3RpbWUDMTI1MzE1OTg5NA--[8]
> http://groups.yahoo.com/group/GPSL/files;_ylc=X3oDMTJmaDljZm1lBF9TAzk3MzU5N
> zE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2ZpbGVzBHN0
> aW1lAzEyNTMxNTk4OTQ-[9]
> http://groups.yahoo.com/group/GPSL/photos;_ylc=X3oDMTJlb28xaWJtBF9TAzk3MzU5
> NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3Bob3QEc3R
> pbWUDMTI1MzE1OTg5NA--[10]
> http://groups.yahoo.com/group/GPSL/links;_ylc=X3oDMTJmcnUwYTNnBF9TAzk3MzU5N
> zE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2xpbmtzBHN0
> aW1lAzEyNTMxNTk4OTQ-[11]
> http://groups.yahoo.com/group/GPSL/database;_ylc=X3oDMTJjZHB0Z2x2BF9TAzk3Mz
> U5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2RiBHN0a
> W1lAzEyNTMxNTk4OTQ-[12]
> http://groups.yahoo.com/group/GPSL/polls;_ylc=X3oDMTJmNWI3Y3M1BF9TAzk3MzU5N
> zE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3BvbGxzBHN0
> aW1lAzEyNTMxNTk4OTQ-[13]
> http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJldms4NGNzBF9TAzk3MzU
> 5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA21icnMEc3
> RpbWUDMTI1MzE1OTg5NA--[14]
> http://groups.yahoo.com/group/GPSL/calendar;_ylc=X3oDMTJkaDhpMGZwBF9TAzk3Mz
> U5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2NhbARzd
> GltZQMxMjUzMTU5ODk0[15]
> http://us.ard.yahoo.com/SIG=14kr4rs48/M=493064.12016295.13271503.10835568/D
> =groups/S=1705063108:MKP1/Y=YAHOO/EXP=1253167095/L=/B=.8SBJkPDhE0-/J=125315
> 9895073182/K=LDNUCZQz.l7mSkpsrkvbzw/A=5697381/R=0/SIG=11eaa5dke/*http://gro
> ups.yahoo.com/group/mompowergroup/[16]
> http://groups.yahoo.com/;_ylc=X3oDMTJkODUwcDZsBF9TAzk3NDc2NTkwBGdycElkAzY3N
> jQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjUzMTU5ODk0[17]
> http://groups.yahoo.com/group/GPSL/join;_ylc=X3oDMTJmbHMwOGVpBF9TAzk3NDc2NT
> kwBGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3N0bmdzBHN0a
> W1lAzEyNTMxNTk4OTQ-[19]
> http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJkOWZqbWRhBF9TAzk3NDc2NTkwBGd
> ycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMj
> UzMTU5ODk0[20] http://docs.yahoo.com/info/terms/
> [22]
> http://groups.yahoo.com/group/GPSL/members;_ylc=X3oDMTJmOXRoMmg4BF9TAzk3MzU
> 5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZtYnJzBH
> N0aW1lAzEyNTMxNTk4OTQ-[23]
> http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlZmFsMW5iBF9TAzk3MzU5NzE0BGd
> ycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMT
> I1MzE1OTg5NA--[24]
> http://us.ard.yahoo.com/SIG=14hb2cuqa/M=493064.12016255.12445662.8674578/D=
> groups/S=1705063108:NC/Y=YAHOO/EXP=1253167095/L=/B=_MSBJkPDhE0-/J=125315989
> 5073182/K=LDNUCZQz.l7mSkpsrkvbzw/A=4025291/R=0/SIG=12bsapn24/*http://us.rd.
> yahoo.com/evt=44092/*http://smallbusiness.yahoo.com/merchant[25]
> http://us.ard.yahoo.com/SIG=14hu4tnu7/M=493064.12016263.12445670.8674578/D=
> groups/S=1705063108:NC/Y=YAHOO/EXP=1253167095/L=/B=_cSBJkPDhE0-/J=125315989
> 5073182/K=LDNUCZQz.l7mSkpsrkvbzw/A=5522128/R=0/SIG=11kt0eu7c/*http://advisi
> on.webevents.yahoo.com/domoreforcats/[26]

> http://us.ard.yahoo.com/SIG=14hdmagqa/M=493064.12016283.13564723.8674578/D=
> groups/S=1705063108:NC/Y=YAHOO/EXP=1253167095/L=/B=_sSBJkPDhE0-/J=125315989
> 5073182/K=LDNUCZQz.l7mSkpsrkvbzw/A=5741393/R=0/SIG=11m8njht2/*http://advisi
> on.webevents.yahoo.com/mentalhealthzone
>

6055. NSTAR pre-launch photo

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-18 01:01:22 UTC
From: Mark Conner
Topic: 6055 Message: 6055
Attachments: 1 described; binary payloads are missing from this source WARC

This was a chance photo captured by our payload camera during our last launch. If I think of it, I start the payload camera on its timed sequence before we start filling and point it in the general area where we are filling. Sometimes we capture some neat stuff that way. This particular one is cropped to show details.

Anyhow, this photo illustrates some things I've tried to describe verbally, so maybe it'll make more sense this way:

1) Zip ties for neck closure (flourescent green this time). On a damp morning like this one (it was very foggy on the way to the launch site), they are much easier to deal with than duct tape, and more secure. We use two because redundancy is cheap in this instance.

2) Brass ring. This is put in the bottom of the U after we tie the load line to the balloon but before we zip tie it. The balloon holder (Wayne KE6DZD in this case) can hold the balloon with a couple of fingers through the ring, a much more secure grip than around the neck (especially if he has to hold onto the balloon for some time while I'm troubleshooting). Ours are about 3" in diameter - smaller is kinda cramped for a two-finger

3) Load line clipped to belt. This is done before the balloon is detached from the filler. If the balloon holder should fumble the balloon, hopefully it'll go no farther than the load line's length. The excess line is wrapped around a small foam block, which should provide some resistance as the string unwinds before the line goes taut (not to mention keeping 15 ft of string corraled in the meantime). Hopefully this will prevent snapping the line from sudden tension should the worst happen.

73 de Mark N9XTN

6056. University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-18 23:50:26 UTC
From: Caitlin Mantych
Topic: 6048 Message: 6056

Hi everyone,
I hope things have been going well since the conference! The U of M Ballooning Team is getting some new projects ready for flight, but we need to float our balloon at altitude, something we have not done before. How do we go about doing this, and what is the best floating method? Any advice would be much appreciated.
Also, I remember reading that the BLAST! video could be requested by groups from the GPSL conference- who do I need to contact to find out more about this? Professor Flaten is teaching a freshman seminar this semester and would like to show the movie to his students.
Thanks so much!
Cait MantychUniv. of MNmant0145@...9QBK
--- On Thu, 9/17/09, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] GPSL 2010 Date Set
To: GPSL@yahoogroups.com
Date: Thursday, September 17, 2009, 7:45 AM

I'm using Twitter for two accounts. The first is my Street Astronomer persona (streetastro) where I send out daily notes about what is happening in the sky. If you're in Kansas, you might want to listen in.

The second is NearSys (nearsys) where I give updates to my activities.

I also link the Tweets to my NearSys blog (nearsys.blogspot. com). In the blog I go into more details. Then there's the NearSys channel on YouTube where I post videos of activities that I mention in my tweets. I really need more time to do everything right.

:)

Paul

On Thu, Sep 17, 2009 at 5:41 AM, BASE <basedepauw@yahoo. com> wrote:

Mark,

BASE_DePauw is our twitter account. It only works when I remember to tweet :) Ideally, we'd tweet the prelaunch announcement, the launch, time to reach 18 kft, 60 kft, burst, landing, and recovery.

As of this morning, I am now following two accounts: EOSS and Superlaunch.

Howard

--- On Wed, 9/16/09, Mark Conner <mconner1@gmail. com> wrote:

From: Mark Conner <mconner1@gmail. com>
Subject: Re: [GPSL] GPSL 2010 Date Set

To: GPSL@yahoogroups. com
Date: Wednesday, September 16, 2009, 11:56 PM

Oh, crap, so now I'm going to have to become a Twit to stay up on GPSL?

Seriously, though, I've thought about this for our NSTAR launches. Unfortunately, some other twit has taken twitter.com/ nstar, used it twice last summer, quit. Argh. I know EOSS is using Twitter - has EOSS or any other group found Twitter to be useful for this?

73 de Mark N9XTN

On Wed, Sep 16, 2009 at 19:28, Zack Clobes <zclobes@gmail. com> wrote:

The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson, KS. I'm working on some sort of optional activity for Thursday evening. Sunday will be reserved as a rain-date.

I will be working to get the website updated as soon as I have a few more details nailed down. In the meantime, I'd like to encourage you all to join the GPSL Twitter feed. I will be using Twitter throughout the event to disseminate news, updates, and to coordinate events. I promise not to inundate you with meaningless Tweets!

www.twitter. com/superlaunch/

Zack Clobes, W0ZC
Project: Traveler

--
Onwards and Upwards,
Paul

6057. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-19 02:42:09 UTC
From: Mike Manes
Topic: 6048 Message: 6057

Hi Cait,

It depends a lot on how long you need to float and at what altitude or ranges of altitudes. If it's less than an hour and you don't care much about the altitude, then a lightly filled or "leaky" latex is the low-priced spread. Otherwise, you're into a plastic, and those come either from Aerostar in Palestine TX, at a price, or from Mark Caviezel NG0X, at possibly a more reasonable price.

If your payload weighs in over a few hundred grams, then you're pretty much into a zero-pressure bag, where the envelope volume is selected to be just a bit larger than the volume of the fill gas necessary to support the envelope and payload at the desired float altitude. The ZP is named because the fill gas is vented to atmosphere via vents, or slits, in the envelope near the neck. When the fill gas expands enough to fill the envelope, the excess spills out thru the vents, thus reducing gross lift to equal the system weight. The problem with ZPs is that the fill gas volume shrinks when it cools overnight, and thus the system will descend. This can be overcome by controlled dumping of ballast, but hauling up ballast requires more fill gas and thus a larger envelope - and once all the ballast is dumped, you'll come back down the next night.

The neater although much more difficult floater is the super-pressure bag, where the envelope volume is selected as above, but it's sealed off so the gas can't vent once it expands to fill the fixed envelope volume. The hard part comes in making the envelope strong enough to prevent bursting once the gas pressure rises with solar heating. This isn't beyond normal polyethylene film strength for small volumes and light neck loads, but it gets real dicey for heavier stuff. The kewl part about the SP is that it will float at a density altitude, day and night, until it's cut down or it fails due to UV degradation.

Plastic balloons present a couple of complications compared to latex:

1) You MUST provide some means to terminate the flight when the mission is complete or gets into trouble. That typically involves cutting the payload string away AND opening a hole in the envelope to bring it down as well. This may require tow separate devices, one for the payload and one for the envelope. And neither should depend on a single-fault command system - the typical redundant terminator comprises a timer set to fire after the expected mission duration. Some cheap schemes which have worked include taping a few kg of weight to the top of a ZP, such that it tips over when the payload is cut away, thus letting the gas vent thru the neck vents. Another is destruct panel that gets pulled into the envelope by a long line tied to the payload, such that when the payload is cut away from the neck, the panel, which is lightly sealed, pulls in and opens

a big vent at the top of the envelope; this scheme relies on some minimum payload weight, and may not work if the parachute snubs the jerk on the destruct line (it's happened!). Now, a deflated plastic bag can serve as a fair to middlin' "retarder", as some refer to parachutes, so you may be able to leave the payload attached to the neck, provided you have a reliable, redundant means to dump the fill gas, such as opening a vent at the top of the balloon.

2) It's bad form to leave a gas bag floating about in the airspace, and even worse it let it get munched on my ruminant livestock, where it can clog up their GI systems. So you must arrange to get the deflated bag back ASAP after it lands, and that means that you have to provide it with its own tracking beacon, unless the payload remains attached to the neck after termination.

That's about all I can recall from the last time EOSS dared fly a floater, but others may more insights and broader experience to share.

Good luck, Cait!

73 de Mike W5VSO
CTO EOSS

Caitlin Mantych wrote:
>
>
> Hi everyone,
>
> I hope things have been going well since the conference! The U of M
> Ballooning Team is getting some new projects ready for flight, but we
> need to float our balloon at altitude, something we have not done
> before. How do we go about doing this, and what is the best floating
> method? Any advice would be much appreciated.
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> Also, I remember reading that the BLAST! video could be requested by
> groups from the GPSL conference- who do I need to contact to find out
> more about this? Professor Flaten is teaching a freshman seminar this
> semester and would like to show the movie to his students.
>
> Thanks so much!
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> Univ. of MN
> mant0145@...
> KC9QBK
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> On Thu, Sep 17, 2009 at 5:41 AM, BASE <basedepauw@yahoo. com
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> Howard
>
>
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>
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> </mc/compose?to=mconner1@...>>
> Subject: Re: [GPSL] GPSL 2010 Date Set
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>

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> Onwards and Upwards,
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6058. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-19 03:54:11 UTC
From: Ed Moore
Topic: 6048 Message: 6058

Some of us in the UK managed to repeat the success of Bill Brown's latex floaters at night - a couple of months ago James Coxon got an overnight float at 28km with a 1.5kg balloon and a ~500g payload. Float altitude was solid as a rock +/- 100m according to the GPS for nearly 7 hours - almost like there was some kind of feedback mechanism. I wish I understood the physics a bit more!

Check Bill Brown's presentation here:

http://www.wb8elk.com/GPSL2007talk.ppt

Ed Moore
M0TEK
www.cuspaceflight.co.uk

On 19 Sep 2009, at 03:42, Mike Manes wrote:

> Hi Cait,
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> It depends a lot on how long you need to float and at what altitude or
> ranges of altitudes. If it's less than an hour and you don't care much
> about the altitude, then a lightly filled or "leaky" latex is the low-
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6059. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-20 00:17:12 UTC
From: wb8elk@aol.com
Topic: 6048 Message: 6059

Hi Cait,

? I have done three different methods for floating a latex balloon. The best time for a longer duration float is to launch a couple of hours prior to sunset and then valve off the excess helium lift before reaching the burst altitude. I recommend about 70,000 feet since that puts you into uncontrolled airspace and in the minimum wind field?as well.

? A daytime floater can last up to 6 hours but runs the risk of latex degradation by the UV radiation....I've had over 20 hour floats when running the mission mostly during the night.

Here are the three methods that I've successfully used so far:

1) Constant pinhole leak.? I use a piece of plastic conduit pipe with a 1/16" hole in the endcap that fits in the balloon nozzle....the UK group has also tried this by punching a pinhole directly into the balloon nozzle....but the hole size could vary using the UK method as things stretch out a bit....but they have successfully achieved float this way as well. The only part is that it?is not fullproof as you are actually floating at the burst altitude....it's about 50/50 whether it floats or bursts...if you get the pinhole a bit too large, then it won't even reach burst altitude and will slowly come back down.? In my flight tests last year, a 1/16" hole flown overnight floated between 98,000 feet to 107,000 feet for almost 17 hours. However, when I tried two 1/16" holes it only went up to 28,000 feet and came back down.

2) No vent/No pinhole float:? Precisely measure lift such that at balloon sunset the loss of solar lift equals the positive lift that you put in at launch....requires you to make sure the balloon is ascending at such a rate that it doesn't reach burst before sunset. I've done several 20 plus hour flights this way....need to keep the positive ascent rate below 300 ft/min for maximum chance of success.

3) valve system.? Best reliability and controllability....but requires an active servo system to remove a ball from the end of the plastic pipe to vent helium. With a ballast system, you can steer up and down a few times with this method. I can send you photos of my vent valve that plugs in the balloon nozzle when I get back to my house.

Hope this helps....will be glad to send info and a valve to you for a future flight.

For longer flights, you'll have to go to a plastic zero pressure or super pressure flight...the super pressure flight is extremely tricky to get the exact amount of helium just right. I've been involved with many of these kind of flights and can help out if you decide to go this route.

- Bill Brown WB8ELK

-----Original Message-----
From: Caitlin Mantych <irish_i_was_rich@...>
To: GPSL@yahoogroups.com
Sent: Fri, Sep 18, 2009 6:50 pm

Subject: [GPSL] University of MN could use your advice!

Hi everyone,?

I hope things have been going well since the conference! The U of M Ballooning Team is getting some new projects ready for flight, but we need to float our balloon at altitude, something we have not done before. How do we go about doing this, and what is the best floating method? Any advice would be much appreciated.?

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Thanks so much!

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Univ. of MN

mant0145@...

KC9QBK
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Subject: Re: [GPSL] GPSL 2010 Date Set
To: GPSL@yahoogroups.com
Date: Thursday, September 17, 2009, 7:45 AM

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Zack Clobes, W0ZC
Project: Traveler

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Onwards and Upwards,
Paul

6060. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 02:48:23 UTC
From: Caitlin Mantych
Topic: 6048 Message: 6060

Thanks Mike! You've given us a lot to consider. We want to float the balloon for a few hours to collect cosmic dust. I hope everything is going well by you- I'll let you know how our flight goes!
Cait
--- On Fri, 9/18/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] University of MN could use your advice!
To: GPSL@yahoogroups.com
Date: Friday, September 18, 2009, 9:42 PM

Hi Cait,

It depends a lot on how long you need to float and at what altitude or

ranges of altitudes. If it's less than an hour and you don't care much

about the altitude, then a lightly filled or "leaky" latex is the low-

priced spread. Otherwise, you're into a plastic, and those come either

from Aerostar in Palestine TX, at a price, or from Mark Caviezel NG0X,

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If your payload weighs in over a few hundred grams, then you're pretty

much into a zero-pressure bag, where the envelope volume is selected to

be just a bit larger than the volume of the fill gas necessary to support

the envelope and payload at the desired float altitude. The ZP is named

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This can be overcome by controlled dumping of ballast, but hauling up

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The neater although much more difficult floater is the super-pressure bag,

where the envelope volume is selected as above, but it's sealed off so the gas can't vent once it expands to fill the fixed envelope volume. The hard part comes in making the envelope strong enough to prevent bursting once the gas pressure rises with solar heating. This isn't beyond normal polyethylene film strength for small volumes and light neck loads, but it gets real dicey for heavier stuff. The kewl part about the SP is that it will float at a density altitude, day and night, until it's cut down or it fails due to UV degradation.

Plastic balloons present a couple of complications compared to latex:

1) You MUST provide some means to terminate the flight when the mission is complete or gets into trouble. That typically involves cutting the payload string away AND opening a hole in the envelope to bring it down as well. This may require tow separate devices, one for the payload and one for the envelope. And neither should depend on a single-fault command system - the typical redundant terminator comprises a timer set to fire after the expected mission duration. Some cheap schemes which have worked include taping a few kg of weight to the top of a ZP, such that it tips over when the payload is cut away, thus letting the gas vent thru the neck vents. Another is destruct panel that gets pulled into the envelope by a long line tied to the payload, such that when the payload is cut away from the neck, the panel, which is lightly sealed, pulls in and opens a big vent at the top of the envelope; this scheme relies on some minimum payload weight, and may not work if the parachute snubs the jerk on the destruct line (it's happened!). Now, a deflated plastic bag can serve as a fair to middlin' "retarder", as some refer to parachutes, so you may be able to leave the payload attached to the neck, provided you have a reliable, redundant means to dump the fill gas, such as opening a vent at the top of the balloon.

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That's about all I can recall from the last time EOSS dared fly a floater, but others may more insights and broader experience to share.

Good luck, Cait!

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CTO EOSS

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6061. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 02:50:57 UTC
From: Caitlin Mantych
Topic: 6048 Message: 6061

Thank you very much! Hope we're a successful as you were. :)
Cait

--- On Fri, 9/18/09, Ed Moore <eam52@...> wrote:

From: Ed Moore <eam52@cam.ac.uk>
Subject: Re: [GPSL] University of MN could use your advice!
To: GPSL@yahoogroups.com
Date: Friday, September 18, 2009, 10:54 PM

Some of us in the UK managed to repeat the success of Bill Brown's
latex floaters at night - a couple of months ago James Coxon got an
overnight float at 28km with a 1.5kg balloon and a ~500g payload.
Float altitude was solid as a rock +/- 100m according to the GPS for
nearly 7 hours - almost like there was some kind of feedback
mechanism. I wish I understood the physics a bit more!

Check Bill Brown's presentation here:

http://www.wb8elk.com/GPSL2007talk.ppt

Ed Moore
M0TEK
www.cuspaceflight.co.uk

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> > To: GPSL@yahoogroups. com </mc/compose?to=GPSL@yahoogroups.com>
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> >
> >
> > Zack Clobes, W0ZC
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> >
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> >
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> > --
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> >
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

Yahoo! Groups Links

6062. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 03:00:34 UTC
From: Caitlin Mantych
Topic: 6048 Message: 6062

Hi Bill!
I think we'd like to use the valve method you described. Professor Flaten mentioned it a few weeks ago but wasn't exactly sure how to go about implementing it. I'd like to take you up on your offer for the valve and more info; the launch is scheduled for October 10th. Thank you so much for your help; the whole team really appreciates it. Have you had any new and exciting ballooning adventures since we last saw each other? Talk to you soon, Cait

--- On Sat, 9/19/09, wb8elk@... <wb8elk@...> wrote:

From: wb8elk@... <wb8elk@...>
Subject: Re: [GPSL] University of MN could use your advice!
To: GPSL@yahoogroups.com
Date: Saturday, September 19, 2009, 7:17 PM

Hi Cait,

  I have done three different methods for floating a latex balloon. The best time for a longer duration float is to launch a couple of hours prior to sunset and then valve off the excess helium lift before reaching the burst altitude. I recommend about 70,000 feet since that puts you into uncontrolled airspace and in the minimum wind field as well.

  A daytime floater can last up to 6 hours but runs the risk of latex degradation by the UV radiation... .I've had over 20 hour floats when running the mission mostly during the night.

Here are the three methods that I've successfully used so far:

1) Constant pinhole leak. I use a piece of plastic conduit pipe with a 1/16" hole in the endcap that fits in the balloon nozzle....the UK group has also tried this by punching a pinhole directly into the balloon nozzle....but the hole size could vary using the UK method as things stretch out a bit....but they have successfully achieved float this way as well. The only part is that it is not fullproof as you are actually floating at the burst altitude.... it's about 50/50 whether it floats or bursts...if you get the pinhole a bit too large, then it won't even reach burst altitude and will slowly come back down. In my flight tests last year, a 1/16" hole flown overnight floated between 98,000 feet to 107,000 feet for almost 17 hours. However, when I tried two 1/16" holes it only went up to 28,000 feet and came back down.

2) No vent/No pinhole float: Precisely measure lift such that at balloon sunset the loss of solar lift equals the positive lift that you put in at launch....requires you to make sure the balloon is ascending at such a rate that it doesn't reach burst before sunset. I've done several 20 plus hour flights this way....need to keep the positive ascent rate below 300 ft/min for maximum chance of success.

3) valve system. Best reliability and controllability. ...but requires an active servo system to remove a ball from the end of the plastic pipe to vent helium. With a ballast system, you can steer up and down a few times with this method. I can send you photos of my

vent valve that plugs in the balloon nozzle when I get back to my house.

Hope this helps....will be glad to send info and a valve to you for a future flight.

For longer flights, you'll have to go to a plastic zero pressure or super pressure flight...the super pressure flight is extremely tricky to get the exact amount of helium just right. I've been involved with many of these kind of flights and can help out if you decide to go this route.

- Bill Brown WB8ELK

-----Original Message-----

From: Caitlin Mantych <irish_i_was_ rich@yahoo. com>

To: GPSL@yahoogroups. com

Sent: Fri, Sep 18, 2009 6:50 pm

Subject: [GPSL] University of MN could use your advice!

Hi everyone,

I hope things have been going well since the conference! The U of M Ballooning Team is getting some new projects ready for flight, but we need to float our balloon at altitude, something we have not done before. How do we go about doing this, and what is the best floating method? Any advice would be much appreciated.

Also, I remember reading that the BLAST! video could be requested by groups from the GPSL conference- who do I need to contact to find out more about this? Professor Flaten is teaching a freshman seminar this semester and would like to show the movie to his students.

Thanks so much!

Cait Mantych

Univ. of MN

mant0145@umn. edu

KC9QBK

--- On Thu, 9/17/09, L. Paul Verhage <nearsys@gmail. com> wrote:

From: L. Paul Verhage <nearsys@gmail. com>

Subject: Re: [GPSL] GPSL 2010 Date Set

To: GPSL@yahoogroups. com

Date: Thursday, September 17, 2009, 7:45 AM

I'm using Twitter for two accounts. The first is my Street Astronomer persona (streetastro) where I send out daily notes about what is happening in the sky. If you're in Kansas, you might want to listen in.

The second is NearSys (nearsys) where I give updates to my activities.

I also link the Tweets to my NearSys blog (nearsys.blogspot. com). In the blog I go into more details. Then there's the NearSys channel on YouTube where I post videos of activities that I mention in my tweets. I really need more time to do everything right.

:)

Paul

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Mark,

BASE_DePauw is our twitter account. It only works when I remember to tweet :) Ideally, we'd tweet the prelaunch announcement, the launch, time to reach 18 kft, 60 kft, burst, landing, and recovery.

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Howard

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Date: Wednesday, September 16, 2009, 11:56 PM

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www.twitter. com/superlaunch/

Zack Clobes, W0ZC

Project: Traveler

--

Onwards and Upwards,

Paul

6063. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 04:41:51 UTC
From: Mike Manes
Topic: 6048 Message: 6063

OK Cait, glad to help out.

One option I failed to mention was a controlled dump valve on a latex. This will work to float the balloon well below burst, but does involve some complexity in that running wires up the lift line to the neck of the balloon is a recipe for failure; the line WILL twist - a LOT - even to the point of knotting, and that spells doom for any cable running in parallel with it. Twisting can be prevented by making the lift line in the form of a rope ladder, with two lines separated by spreaders spaced vertically roughly the horizontal distance between the lines and torsion couplers at the balloon neck and parachute apex. Or so I've reckoned - never tried it, but we've sure broken plenty of cords running even ten ft of payload or lift line! And be SURE to put plenty of slack in the copper to accommodate up to 50% stretch in the nylon at the tensile limit.

GL with the flight!

73 de Mike W5VSI
CTO EOSS

Caitlin Mantych wrote:
>
>
> Thanks Mike! You've given us a lot to consider. We want to float the
> balloon for a few hours to collect cosmic dust. I hope everything is
> going well by you- I'll let you know how our flight goes!
>
> Cait
> --- On *Fri, 9/18/09, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] University of MN could use your advice!
> To: GPSL@yahoogroups.com
> Date: Friday, September 18, 2009, 9:42 PM
>
>
>
> Hi Cait,
>
> It depends a lot on how long you need to float and at what altitude or
> ranges of altitudes. If it's less than an hour and you don't care much
> about the altitude, then a lightly filled or "leaky" latex is the low-
> priced spread. Otherwise, you're into a plastic, and those come either
> from Aerostar in Palestine TX, at a price, or from Mark Caviezel NG0X,

> at possibly a more reasonable price.
>
> If your payload weighs in over a few hundred grams, then you're pretty
> much into a zero-pressure bag, where the envelope volume is selected to
> be just a bit larger than the volume of the fill gas necessary to
> support
> the envelope and payload at the desired float altitude. The ZP is named
> because the fill gas is vented to atmosphere via vents, or slits, in the
> envelope near the neck. When the fill gas expands enough to fill the
> envelope, the excess spills out thru the vents, thus reducing gross lift
> to equal the system weight. The problem with ZPs is that the fill gas
> volume shrinks when it cools overnight, and thus the system will
> descend.
> This can be overcome by controlled dumping of ballast, but hauling up
> ballast requires more fill gas and thus a larger envelope - and once all
> the ballast is dumped, you'll come back down the next night.
>
> The neater although much more difficult floater is the
> super-pressure bag,
> where the envelope volume is selected as above, but it's sealed off so
> the gas can't vent once it expands to fill the fixed envelope
> volume. The
> hard part comes in making the envelope strong enough to prevent bursting
> once the gas pressure rises with solar heating. This isn't beyond normal
> polyethylene film strength for small volumes and light neck loads,
> but it
> gets real dicey for heavier stuff. The kewl part about the SP is that
> it will float at a density altitude, day and night, until it's cut
> down or it fails due to UV degradation.
>
> Plastic balloons present a couple of complications compared to latex:
>
> 1) You MUST provide some means to terminate the flight when the mission
> is complete or gets into trouble. That typically involves cutting the
> payload string away AND opening a hole in the envelope to bring it down
> as well. This may require tow separate devices, one for the payload and
> one for the envelope. And neither should depend on a single-fault
> command
> system - the typical redundant terminator comprises a timer set to fire
> after the expected mission duration. Some cheap schemes which have
> worked
> include taping a few kg of weight to the top of a ZP, such that it tips
> over when the payload is cut away, thus letting the gas vent thru the
> neck vents. Another is destruct panel that gets pulled into the envelope
> by a long line tied to the payload, such that when the payload is
> cut away
> from the neck, the panel, which is lightly sealed, pulls in and opens
> a big vent at the top of the envelope; this scheme relies on some
> minimum
> payload weight, and may not work if the parachute snubs the jerk on the

> destruct line (it's happened!). Now, a deflated plastic bag can serve as
> a fair to middlin' "retarder", as some refer to parachutes, so you may
> be able to leave the payload attached to the neck, provided you have
> a reliable, redundant means to dump the fill gas, such as opening a
> vent at the top of the balloon.
>
> 2) It's bad form to leave a gas bag floating about in the airspace, and
> even worse it let it get munched on my ruminant livestock, where it can
> clog up their GI systems. So you must arrange to get the deflated bag
> back ASAP after it lands, and that means that you have to provide it
> with its own tracking beacon, unless the payload remains attached to
> the neck after termination.
>
> That's about all I can recall from the last time EOSS dared fly a
> floater, but others may more insights and broader experience to
> share.
>
> Good luck, Cait!
>
> 73 de Mike W5VSO
> CTO EOSS
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6064. floaters for MN?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 13:02:14 UTC
From: K. Mark Caviezel
Topic: 6064 Message: 6064

Caitlin,
Mike laid out a pretty good primer* ** regarding floater balloons.
Indeed I have flown a bunch of zero pressure balloons, both from Aerostar and Global Western. I've also supplied zero pressure balloons to UTARC***, UKHAS, ANSR, TVNSP, Bill Brown, and clients in Germany, South Africa, Puerto Rico, Peru, and Canada. And we have a 'fast ascender' program ramping up for use by severe weather meteorologists at the NOAA National Severe Storms Laboratory.

Depending on your mission goals, a 'leaky latex' as Bill Brown has pioneered may be the most convenient and affordable. Otherwise, a clear plastic helium filled zero pressure floater may serve you well.

best regards,

- Mark Caviezel

* Mike did not mention air-filled solar balloons. These are technically zero pressure balloons, but they are 100% filled at launch with air. They heat up due to the sun's heating and fly away. They can give stable floats of over 10 hours and will descend at sunset. If you check youtube user 'kmcaviezel' you can see a launch video of my last solar balloon: 5+ pounds to 50,000 feet, about 14 hours aloft at the summer solstice.

** The requirement for two independent cut down devices applies to all non-exempt balloons, not only to plastic balloons. The FAA does not have a special set of rules only for plastic balloons.
Check
http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.4.9.1
for the actual regulations. These regulations are straightforward and easy to comply with. None the less, there has been some confusion and a certain amount of dis-informatiodisseminateded regarding the FAA's policies regarding unmanned balloon flights in the past. Most amateur groups side step the equipment, notification, and position reporting requirements by operating Part 101-exempt. I.e. with payloads below the limits of 101.1.

*** The UTARC group made an impressive 3300+ mile flight from Knoxville Tennessee to almost Ireland with a small plastic floater balloon.

6065. Floating

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 16:01:43 UTC
From: Jeff Dailey
Topic: 6065 Message: 6065

We have been doing this for some time now, the system is a valve biult into the neck of the balloon. Its controlled over the wireless network from the command POD or it can use its onboard GPS to control the target float atitude and flight time without the command POD. It is programmable through a comm. port connection on the valve unit.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

6066. Re: [GPSL] University of MN could use your advice!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-21 19:11:23 UTC
From: wb8elk@aol.com
Topic: 6048 Message: 6066

Hi Cait,

? The float valve is self-contained...no wires needed to control it from a lower payload as Mike Manes suggested in his last email. However, I haven't had a chance to test?fly the?latest design of it....I may get a chance to test it out on October 3rd however and can send you the tested version in time for your launch.

? I can program it for a float at about 70k feet....you might also want to consider flying a ballast drop mechanism in case you start dropping too far down during the flight (I'll try to send you a circuit for this soon)....this can?be a simple as dropping off a weight of a few ounces (with streamer) if the altitude gets below 60k feet....I'm going to be at the Digital Communications Conference in Chicago?later this week?giving a talk on telemetry and also am the banquet speaker there. Your balloon?group might be interested in attending this as they will be discussing new digital communications techniques for telemetry as well as digital TV. The SuitSat folks (satellite launched by kicking it out of the ISS in a spacesuit)?will be there as well with their system.

? www.tapr.org/dcc

?Another university group has?contacted me?who is also planning to collect comet dust with Aerogel...they may fly in November.?We did this in the late 90's from Marshall Space Flight Center during the Leonids meteor storm. The trick is to uncover the Aerogel in the stratosphere and then recover it before balloon burst.

- Bill

-----Original Message-----
From: Caitlin Mantych <irish_i_was_rich@...>
To: GPSL@yahoogroups.com
Sent: Sun, Sep 20, 2009 10:00 pm
Subject: Re: [GPSL] University of MN could use your advice!

Hi Bill!

I think we'd like to use the valve method you described. Professor Flaten mentioned it a few weeks ago but wasn't exactly sure how to go about implementing it. I'd like to take you up on your offer for the valve and more info; the launch is scheduled for October 10th. Thank you so much for your help; the whole team really appreciates it. Have you had any new and exciting ballooning adventures since we last saw each other? Talk to you soon, Cait

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2) No vent/No pinhole float:? Precisely measure lift such that at balloon sunset the loss of solar lift equals the positive lift that you put in at launch....requires you to make sure the balloon is ascending at such a rate that it doesn't reach burst before sunset. I've done several 20 plus hour flights this way....need to keep the positive ascent rate below 300 ft/min for maximum chance of success.

?

3) valve system.? Best reliability and controllability. ...but requires an active servo system to remove a ball from the end of the plastic pipe to vent helium. With a ballast system, you can steer up and down a few times with this method. I can send you photos of my vent valve that plugs in the balloon nozzle when I get back to my house.

?

Hope this helps....will be glad to send info and a valve to you for a future flight.

?

For longer flights, you'll have to go to a plastic zero pressure or super pressure flight...the super pressure flight is extremely tricky to get the exact amount of helium

just right. I've been involved with many of these kind of flights and can help out if you decide to go this route.

?

- Bill Brown WB8ELK

?

?

-----Original Message-----
From: Caitlin Mantych <irish_i_was_ rich@yahoo. com>
To: GPSL@yahoogroups. com
Sent: Fri, Sep 18, 2009 6:50 pm
Subject: [GPSL] University of MN could use your advice!

?

Hi everyone,?

I hope things have been going well since the conference! The U of M Ballooning Team is getting some new projects ready for flight, but we need to float our balloon at altitude, something we have not done before. How do we go about doing this, and what is the best floating method? Any advice would be much appreciated.?

Also, I remember reading that the BLAST! video could be requested by groups from the GPSL conference- who do I need to contact to find out more about this? Professor Flaten is teaching a freshman seminar this semester and would like to show the movie to his students.?

Thanks so much!

Cait Mantych

Univ. of MN

mant0145@umn. edu

KC9QBK
--- On Thu, 9/17/09, L. Paul Verhage <nearsys@gmail. com> wrote:

From: L. Paul Verhage <nearsys@gmail. com>
Subject: Re: [GPSL] GPSL 2010 Date Set
To: GPSL@yahoogroups. com
Date: Thursday, September 17, 2009, 7:45 AM

?

I'm using Twitter for two accounts.? The first is my Street Astronomer persona (streetastro) where I send out daily notes about what is happening in the sky.? If you're in Kansas, you might want to listen in.

?

The second is NearSys (nearsys) where I?give updates to my activities.

?

I also link the Tweets to my NearSys blog (nearsys.blogspot. com).? In the blog I go into more details.? Then there's the NearSys channel on YouTube where I post videos of activities that I mention in my tweets.? I really need more time to?do everything right.

:)?

?

Paul?

On Thu, Sep 17, 2009 at 5:41 AM, BASE <basedepauw@yahoo. com> wrote:

Mark,

BASE_DePauw is our twitter account.? It only works when I remember to tweet :)? Ideally, we'd tweet the prelaunch announcement, the launch, time to reach 18 kft, 60 kft, burst, landing, and recovery.

As of this morning, I am now following two accounts:? EOSS and Superlaunch.

Howard

--- On Wed, 9/16/09, Mark Conner <mconner1@gmail. com> wrote:

From: Mark Conner <mconner1@gmail. com>
Subject: Re: [GPSL] GPSL 2010 Date Set
To: GPSL@yahoogroups. com
Date: Wednesday, September 16, 2009, 11:56 PM

?

Oh, crap, so now I'm going to have to become a Twit to stay up on GPSL??

?

Seriously, though, I've thought about this for our NSTAR launches.? Unfortunately, some other twit has taken twitter.com/ nstar, used it twice last summer, quit.? Argh.? I know EOSS is using Twitter - has EOSS or any other group found Twitter to be useful for this?

?

73 de Mark N9XTN

On Wed, Sep 16, 2009 at 19:28, Zack Clobes <zclobes@gmail. com> wrote:

The popular vote goes to Fri-Sat, July 23rd and 24th, 2010 in Hutchinson, KS.? I'm working on some sort of optional activity for Thursday evening.? Sunday will be reserved as a rain-date.

I will be working to get the website updated as soon as I have a few more details nailed down.? In the meantime, I'd like to encourage you all to join the GPSL Twitter feed.? I will be using Twitter throughout the event to disseminate news, updates, and to coordinate events.? I promise not to inundate you with meaningless Tweets!

www.twitter. com/superlaunch/

Zack Clobes, W0ZC
Project: Traveler

--
Onwards and Upwards,
Paul

6067. Launch 10-2-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 12:58:22 UTC
From: Jeff Dailey
Topic: 6067 Message: 6067

Taylor University CCLI launch at Ohio State University.

Flight #: 204
Flight ID: CCLI27
Date: 10-2-2009
Time: TBD
Launch Site: Columbus OH.

APRS: 144.390 KB9ZNZ-10

Thank you

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(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6068. Launch 10_3_2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:05:00 UTC
From: Jeff Dailey
Topic: 6068 Message: 6068

Taylor University Chem100-10 launch.

Flight #: 206
Flight ID: CHEM100-10
Date: 10-3-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-11

Thank you

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jfdailey@...

6069. Launch 10_3_2009 Balloon #2

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:07:16 UTC
From: Jeff Dailey
Topic: 6069 Message: 6069

Taylor University Chem100-20 launch.

Flight #: 207
Flight ID: CHEM100-20
Date: 10-3-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-12

Thank you

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jfdailey@taylor.edu

6070. Launch 10-9-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:13:22 UTC
From: Jeff Dailey
Topic: 6070 Message: 6070

Taylor University CCLI launch at Marshall University.

Flight #: 208
Flight ID: CCLI28
Date: 10-9-2009
Time: TBD
Launch Site: Huntington WV
LAT: TBD
LON: TBD

APRS: 144.390 KB9ZNZ-10

Thank you

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jfdailey@taylor.edu

6071. Launch 10-17-2009 Balloon #1

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:18:08 UTC
From: Jeff Dailey
Topic: 6071 Message: 6071

Taylor University launch at Norfolk State University.

Flight #: 209
Flight ID: CCLI29
Date: 10-17-2009
Time: TBD
Launch Site: Norfolk Virginia
LAT: TBD
LON: TBD

APRS: 144.390 KB9ZNZ-10

Thank you

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jfdailey@taylor.edu

6072. Launch 10-17-2009 Balloon #2

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:20:24 UTC
From: Jeff Dailey
Topic: 6072 Message: 6072

Taylor University PHY201-10 launch.

Flight #: 206
Flight ID: PHY201-10
Date: 10-17-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-11

Thank you

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jfdailey@taylor.edu

6073. Launch 10-17-2009 Balloon #3

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:27:06 UTC
From: Jeff Dailey
Topic: 6073 Message: 6073

Taylor University PHY201-20 launch..

Flight #: 211
Flight ID: PHY201-20
Date: 10-17-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-12

Thank you

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jfdailey@...

6074. Launch 11-3-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:41:33 UTC
From: Jeff Dailey
Topic: 6074 Message: 6074

Taylor University CCLI launch at Tabor College.

Flight #: 212
Flight ID: CCLI30
Date: 10-9-2009
Time: TBD
Launch Site: Hillsboro KS
LAT: TBD
LON: TBD

APRS: 144.390 KB9ZNZ-10

Thank you

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jfdailey@...u

6075. Launch 10-14-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:43:56 UTC
From: Jeff Dailey
Topic: 6075 Message: 6075

Taylor University CCLI launch at University of Minnesota, Morris.

Flight #: 213
Flight ID: CCLI31
Date: 10-9-2009
Time: TBD
Launch Site: Morris MN.
LAT: TBD
LON: TBD

APRS: 144.390 KB9ZNZ-10

Thank you

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jfdailey@...

6076. Launch 10-19-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:46:14 UTC
From: Jeff Dailey
Topic: 6076 Message: 6076

Taylor University CCLI launch at Trevecca NazareneUniversity.

Flight #: 214
Flight ID: CCLI32
Date: 10-19-2009
Time: TBD
Launch Site: Nashville TN
LAT: TBD
LON: TBD

APRS: 144.390 KB9ZNZ-10

Thank you

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jfdailey@...

6077. Launch 10-17-2009 Balloon #3

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 13:23:26 UTC
From: Jeff Dailey
Topic: 6073 Message: 6077

Taylor University PHY201-20 launch..

Flight #: 206
Flight ID: PHY201-20
Date: 10-17-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-12

Thank you

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jfdailey@...

6078. Flight change

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 14:03:47 UTC
From: Jeff Dailey
Topic: 6078 Message: 6078

The 10-14-2009 and the 10-19-2009 could be 11-14-2009 and 11-19-2009.

Thank you

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jfdailey@...

6079. Re: [GPSL] Launch 10-19-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 17:36:13 UTC
From: Keith Kaiser
Topic: 6076 Message: 6079

Jeff, Jeff... you're killing me here... LOL.

In the future please use; http://www.arhab.org/annomail.html to submit your flights, you can do up to 3 flights on one note. It would really help me out a lot of you did it that way.

I have what you've sent posted, but take a look and let me know. Your dates inside the note don't always match the subject of your notes, I think I used the subject note for all of them.

On Sep 25, 2009, at 9:46 AM, Jeff Dailey wrote:

> Taylor University CCLI launch at Trevecca NazareneUniversity.
>
> Flight #: 214
> Flight ID: CCLI32
> Date: 10-19-2009
> Time: TBD
> Launch Site: Nashville TN
> LAT: TBD
> LON: TBD
>
> APRS: 144.390 KB9ZNZ-10

73's
Keith Kaiser
wa0tjt@...

6080. Re: [GPSL] Flight change

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 17:40:57 UTC
From: Keith Kaiser
Topic: 6078 Message: 6080

Could be or Should be?

On Sep 25, 2009, at 10:03 AM, Jeff Dailey wrote:

> The 10-14-2009 and the 10-19-2009 could be 11-14-2009 and 11-19-2009.
>
> Thank you
>
> Jeffrey F. Dailey
> Center for Research & Innovation
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> jfdailey@...
>
>

73's
Keith Kaiser
wa0tjt@...

6081. Re: [GPSL] Flight change

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 17:53:24 UTC
From: Keith Kaiser
Topic: 6078 Message: 6081

It just occurred to me. If you didn't use the new form, maybe you don't know about the new site. Sorry about that, the listings are at; http://www.arhab.org/ARHABlaunchannouncements.html

I created the new mother site at; ARHAB.org with links to all the others.

Good luck.

On Sep 25, 2009, at 10:03 AM, Jeff Dailey wrote:

> The 10-14-2009 and the 10-19-2009 could be 11-14-2009 and 11-19-2009.
>
> Thank you
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
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> jfdailey@...
>
>

73's
Keith Kaiser
wa0tjt@...

6082. Re: [GPSL] Flight change

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 18:50:58 UTC
From: Jeff Dailey
Topic: 6078 Message: 6082

Both flights are in November not October, I was looking at the wrong month for the November flights its getting busy with 70 plus flights on the board to complete for both CCLI and research by summer 2010.
The Taylor Chem100 and the PHY201 has over 100 students working on payloads.

Thank you

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jfdailey@...

From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Friday, September 25, 2009 1:40:57 PM
Subject: Re: [GPSL] Flight change

Could be or Should be?

On Sep 25, 2009, at 10:03 AM, Jeff Dailey wrote:

>The 10-14-2009 and the 10-19-2009 could be 11-14-2009 and 11-19-2009.
>
>Thank you
>
>Jeffrey F. Dailey
>Center for Research & Innovation
>Research Engineer
>Taylor University
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>Upland, IN 46989
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>jfdailey@taylor. edu
>
>

73's
Keith Kaiser
wa0tjt@gmail.com

6083. Re: [GPSL] Flight change

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-25 20:54:03 UTC
From: Keith Kaiser
Topic: 6078 Message: 6083

Jeff, I don't understand? Please check http://www.arhab.org/ARHABlaunchannouncements.html and let me know if they are correct or not.

Both flights????? You sent me listings for about 10. Which "both flights"?

On Sep 25, 2009, at 2:50 PM, Jeff Dailey wrote:

>
> Both flights are in November not October, I was looking at the wrong
> month for the November flights its getting busy with 70 plus flights
> on the board to complete for both CCLI and research by summer 2010.
> The Taylor Chem100 and the PHY201 has over 100 students working on
> payloads.
>
>
> Thank you
>
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
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> jfdailey@...
>
>
>
> From: Keith Kaiser <wa0tjt@...>
> To: GPSL@yahoogroups.com
> Sent: Friday, September 25, 2009 1:40:57 PM
> Subject: Re: [GPSL] Flight change
>
>
>
> Could be or Should be?
>
>
> On Sep 25, 2009, at 10:03 AM, Jeff Dailey wrote:
>
>>
>> The 10-14-2009 and the 10-19-2009 could be 11-14-2009 and 11-19-2009.
>>
>> Thank you

>>
>> Jeffrey F. Dailey
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>> jfdailey@taylor. edu
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> 73's
> Keith Kaiser
> wa0tjt@...
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73's
Keith Kaiser
wa0tjt@...

6084. [Fwd: Re: [Ballooning] America's Gas Balloon Challenge 2009]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-09-28 04:15:05 UTC
From: Mike Manes
Topic: 6084 Message: 6084

-------- Original Message --------
Subject: Re: [Ballooning] America's Gas Balloon Challenge 2009
Date: Mon, 28 Sep 2009 00:06:07 -0000
From: jaywa5whn <wa5whn@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

"Pigs in Space", excuse me for abusing the "Muppets Show", scheduled launch on Saturday evening (Oct. 3).

http://www.balloonfiesta.com/content/2009-schedule

Saturday evening (Oct. 3) will be the first attempt to launch the Gas Balloons from the Albuquerque International Balloon Fiesta.

Watch for the APRS beacons from Balloon Fiesta Field on Oct. 3 around 6 PM MDT.

35.190385,-106.598554

The KB5GAS Repeater is available on IRLP, Node 3676 . Please, respect the wishes of the Pilots when monitoring the repeater.

...Jay, W5WHN

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6085. UAH ATV balloon new frequency now is 427.25 MHz

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-03 05:16:10 UTC
From: wb8elk@aol.com
Topic: 6085 Message: 6085

UAH ATV balloon from Huntsville, AL has moved down to 427.25 MHz...launch will be around 8 am CDT.

Might have streaming video starting around 7:30 am CDT?at:

www.batc.tv

click on "Members Streams"

find WB8ELK and click on that to watch the stream.

- Bill WB8ELK

6086. NearSys 09F

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 04:05:33 UTC
From: L. Paul Verhage
Topic: 6086 Message: 6086

We recovered the flight, but ti flew about 20 miles farther than we predicted. The GFS model was predicting winds below 100 mph yesterday (as I recall), but we got into a 111 mph jet.

Add to that, that there was a race at the Kansas Speed Way and a KSU game near KC. The last two miles of the turnpike was at a crawl. It's awful to watch your near spacecraft make distance on you.

I saw too many dropped packets on the MT-300 based trackers. I need to look into their datasheets. I want to make sure there isn't something in their design that I'm not taking into account.

--
Onwards and Upwards,
Paul

6087. Online Flight Prediction Pages

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 16:08:21 UTC
From: Keith Kaiser
Topic: 6087 Message: 6087

All,

There are only 2 reasons that the captcha image would not appear.

1) NOAA is busy/down.
2) The user didn't enter a a wx station that is on the list.

That's the only 2. Really.

As for IE, it works for anything from 6.1 on up, (though I highly recommend ditching anything less than ie-7)

The fact that he can't get it to work on multiple operating systems confirms reasons 1 or 2 above, with a probability approaching unity for #2.

73's
Keith Kaiser
wa0tjt@...

6088. Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 17:34:08 UTC
From: lpcoates
Topic: 6088 Message: 6088

Hi Everyone

We fly two trackers in our payload and one is a home built unit built around the Inventek GPS chip and active antenna. On our last two flights, we've noticed that the GPS loses satellite lock a few seconds after burst. Considering the violent motion, this isn't too surprising but we expected that it would recover quite quickly. On SABRE-7 it never regained a lock and claimed that the altitude had stayed at 105,000 feet all the way to the ground and the lat/lon coordinates were at least 10 km off. On SABRE-8 it did the same again but this time it regained lock after about 10 minutes into the decent. I was just curious if others had seen the same symptom.

73, Bruce
VE5BNC
http://ve5aa.dyndns.org/balloon

6089. Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 17:42:01 UTC
From: GregC
Topic: 6088 Message: 6089

--- In GPSL@yahoogroups.com, "lpcoates" <bruce.coates@...> wrote:
>
> Hi Everyone
...
> I was just curious if others had seen the same symptom.
>
> 73, Bruce
>

Did you have the altitude filters turned off? I'm trying to integrate this GPS into my BeeLine transmitter (for rockets), and have seen weird behavior with rapidly changing altitudes on SiRF chipsets before -- I'm hoping that by turning off some of these filters it will behave better.

A question for you regarding the Inventek modules -- have you tried to switch between Binary and NMEA protocols on the same channel?

-- Greg

6090. Re: [GPSL] Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 17:59:43 UTC
From: wb8elk@aol.com
Topic: 6088 Message: 6090

Hi Bruce,

? I've flown over a dozen flights with the Inventek module so far.. the Sarantel active helix antenna seems to provide the best performance....but I've also flown it with some active patch antennas.

? For the majority of these flights, I've seen great results, often reaching 10 satellites even after burst.....there was one flight where I was testing out a small?patch antenna that was only tracking about 4 or 5 satellites throughout the flight?that had a dropout for a minute or two?after burst but it quickly regained lock.

? How many satellites do you see tracking during your flights?...if it's down around 4 or 5?satellites, then you may have an antenna issue with the GPS.

? The other thing you can try is to put a backup coin cell?battery on the battery backup pin.

- Bill WB8ELK

-----Original Message-----
From: lpcoates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Sun, Oct 4, 2009 12:34 pm
Subject: [GPSL] Inventek GPS losing lock at burst.

Hi Everyone

We fly two trackers in our payload and one is a home built unit built around the Inventek GPS chip and active antenna. On our last two flights, we've noticed that the GPS loses satellite lock a few seconds after burst. Considering the violent motion, this isn't too surprising but we expected that it would recover quite quickly. On SABRE-7 it never regained a lock and claimed that the altitude had stayed at 105,000 feet all the way to the ground and the lat/lon coordinates were at least 10 km off. On SABRE-8 it did the same again but this time it regained lock after about 10 minutes into the decent. I was just curious if others had seen the same symptom.

73, Bruce
VE5BNC
http://ve5aa.dyndns.org/balloon

6091. Re: [GPSL] Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 18:10:12 UTC
From: Bruce Coates
Topic: 6088 Message: 6091

Hi Greg

I'm not exactly sure what you're referring to when you mention turning the altitude filters off.

We haven't tried to do any reconfiguration of the GPS at all. We're just using the factory settings.

73, Bruce

----- Original Message -----
From: GregC
To: GPSL@yahoogroups.com
Sent: Sunday, October 04, 2009 11:42 AM
Subject: [GPSL] Re: Inventek GPS losing lock at burst.

--- In GPSL@yahoogroups.com, "lpcoates" <bruce.coates@...> wrote:
>
> Hi Everyone
...
> I was just curious if others had seen the same symptom.
>
> 73, Bruce
>

Did you have the altitude filters turned off? I'm trying to integrate this GPS into my BeeLine transmitter (for rockets), and have seen weird behavior with rapidly changing altitudes on SiRF chipsets before -- I'm hoping that by turning off some of these filters it will behave better.

A question for you regarding the Inventek modules -- have you tried to switch between Binary and NMEA protocols on the same channel?

-- Greg

6092. Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 18:26:02 UTC
From: GregC
Topic: 6088 Message: 6092

There are a number of options available when you talk to the device using the SiRF Binary protocol that you don't get to play with in NMEA mode.

Using SiRFDemo, select Navigation->Mode Mask and change the "altitude hold mode" to "disable". The default is set to "automatic". I haven't been able to try it out. One of the problems is that it will reset to the default mode if it loses power on the battery backup pin.

We flew a side-by-side comparison using the EM406A and a Trimble Lassen IQ a year or so ago. The EM406A had a horrible time reporting the correct altitude in a rocket flight to 45K AGL, but the Lassen IQ tracked just fine. (the Lassen IQ also had it's altitude filtering disabled).

I'm hoping that the altitude filtering helps on the Inventek part.

-- Greg

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Greg
>
> I'm not exactly sure what you're referring to when you mention turning the altitude filters off.
>
> We haven't tried to do any reconfiguration of the GPS at all. We're just using the factory settings.
>
> 73, Bruce
>

6093. Re: [GPSL] Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 18:29:46 UTC
From: Bruce Coates
Topic: 6088 Message: 6093

Hi Bill

We're seeing between 8 and 10 satellites before burst. After burst it fluctuates wildly claiming between 0 and 8. Once things settle down and it regains a solid lock, it sits between 7 and 9.

We're using a supercap on the standby line. I know that's working because I can remove the power and it will regain a fix in just a few seconds after powering up again.

We're connected using the tiny RF connector on the unit. I wonder if our antenna connection is being disturbed during all of the post burst tumbling and shaking. I may just wrap it up in some foam and play football with it for a while to see what happens.

At GPSL you mentioned where you were purchasing you antenna from but I can't find my notes about it. Where was it again?

Thanks

Bruce

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Sunday, October 04, 2009 11:59 AM
Subject: Re: [GPSL] Inventek GPS losing lock at burst.

Hi Bruce,

I've flown over a dozen flights with the Inventek module so far.. the Sarantel active helix antenna seems to provide the best performance....but I've also flown it with some active patch antennas.

For the majority of these flights, I've seen great results, often reaching 10 satellites even after burst.....there was one flight where I was testing out a small patch antenna that was only tracking about 4 or 5 satellites throughout the flight that had a dropout for a minute or two after burst but it quickly regained lock.

How many satellites do you see tracking during your flights?...if it's down around 4 or 5 satellites, then you may have an antenna issue with the GPS.

The other thing you can try is to put a backup coin cell battery on the battery backup pin.

- Bill WB8ELK

-----Original Message-----
From: lpcoates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Sun, Oct 4, 2009 12:34 pm

Subject: [GPSL] Inventek GPS losing lock at burst.

Hi Everyone

We fly two trackers in our payload and one is a home built unit built around the Inventek GPS chip and active antenna. On our last two flights, we've noticed that the GPS loses satellite lock a few seconds after burst. Considering the violent motion, this isn't too surprising but we expected that it would recover quite quickly. On SABRE-7 it never regained a lock and claimed that the altitude had stayed at 105,000 feet all the way to the ground and the lat/lon coordinates were at least 10 km off. On SABRE-8 it did the same again but this time it regained lock after about 10 minutes into the decent. I was just curious if others had seen the same symptom.

73, Bruce
VE5BNC
http://ve5aa.dyndns.org/balloon

6094. Online Flight Prediction Pages

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-04 18:20:04 UTC
From: Keith Kaiser
Topic: 6087 Message: 6094

All,

There are only 2 reasons that the captcha image would not appear.

1) NOAA is busy/down.
2) The user didn't enter a a wx station that is on the list.

That's the only 2. Really.

As for IE, it works for anything from 6.1 on up, (though I highly recommend ditching anything less than ie-7)

The fact that he can't get it to work on multiple operating systems confirms reasons 1 or 2 above, with a probability approaching unity for #2.

73's
Keith Kaiser
wa0tjt@...

6095. Re: [GPSL] Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-05 00:04:19 UTC
From: Bruce Coates
Topic: 6088 Message: 6095

Hi Greg

Ok, what I see is making sense now. I'm not sure what effect turing this off would have though. If it's having problems aquiring satellites would it sitll not have problems reporting altitudes? My thought is that it would simply report something else that still wouldn't be a meaningful. Or am I misinterpreting what this setting does?

Thanks

Bruce

----- Original Message -----
From: GregC
To: GPSL@yahoogroups.com
Sent: Sunday, October 04, 2009 12:26 PM
Subject: [GPSL] Re: Inventek GPS losing lock at burst.

There are a number of options available when you talk to the device using the SiRF Binary protocol that you don't get to play with in NMEA mode.

Using SiRFDemo, select Navigation->Mode Mask and change the "altitude hold mode" to "disable". The default is set to "automatic". I haven't been able to try it out. One of the problems is that it will reset to the default mode if it loses power on the battery backup pin.

We flew a side-by-side comparison using the EM406A and a Trimble Lassen IQ a year or so ago. The EM406A had a horrible time reporting the correct altitude in a rocket flight to 45K AGL, but the Lassen IQ tracked just fine. (the Lassen IQ also had it's altitude filtering disabled).

I'm hoping that the altitude filtering helps on the Inventek part.

-- Greg

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Greg
>
> I'm not exactly sure what you're referring to when you mention turning the altitude filters off.
>
> We haven't tried to do any reconfiguration of the GPS at all. We're just using the factory settings.
>
> 73, Bruce
>

6096. Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-05 00:19:20 UTC
From: GregC
Topic: 6088 Message: 6096

If it's a problem acquiring satellites, then no, this won't help. If the problem is that you DO have lock, yet the altitude doesn't appear to be reported correctly, then this may help. Speculation only based upon my previous experience w/ the EM604 and the Lassen IQ.

A few weeks ago, I sent out some misconfigured Trimble Lassein IQ units. They dutifully reported the ground altitude for the duration of a rocket flight to 8000' AGL and back. No change in altitude was ever reported. For the Trimble, at least, if you don't change the altitude filters, it attempts to discard rapidly changing elevation reports.

-- Greg

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Greg
>
> Ok, what I see is making sense now. I'm not sure what effect turing this off would have though. If it's having problems aquiring satellites would it sitll not have problems reporting altitudes? My thought is that it would simply report something else that still wouldn't be a meaningful. Or am I misinterpreting what this setting does?
>
> Thanks
>
> Bruce
>
>

6097. Re: [GPSL] Re: Inventek GPS losing lock at burst.

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-05 00:55:38 UTC
From: Bruce Coates
Topic: 6088 Message: 6097

Hi Greg

Very interesting stuff. Thanks for the explanation. Winter is rapidly approaching so it looks like my experimenting will have to wait until spring.

Bruce

----- Original Message -----
From: GregC
To: GPSL@yahoogroups.com
Sent: Sunday, October 04, 2009 6:19 PM
Subject: [GPSL] Re: Inventek GPS losing lock at burst.

If it's a problem acquiring satellites, then no, this won't help. If the problem is that you DO have lock, yet the altitude doesn't appear to be reported correctly, then this may help. Speculation only based upon my previous experience w/ the EM604 and the Lassen IQ.

A few weeks ago, I sent out some misconfigured Trimble Lassein IQ units. They dutifully reported the ground altitude for the duration of a rocket flight to 8000' AGL and back. No change in altitude was ever reported. For the Trimble, at least, if you don't change the altitude filters, it attempts to discard rapidly changing elevation reports.

-- Greg

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Greg
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> Ok, what I see is making sense now. I'm not sure what effect turing this off would have though. If it's having problems aquiring satellites would it sitll not have problems reporting altitudes? My thought is that it would simply report something else that still wouldn't be a meaningful. Or am I misinterpreting what this setting does?
>
> Thanks
>
> Bruce
>
>

6098. BASE 40 - Go for 8 October 1210 UTC (8:10 Eastern)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-08 01:54:00 UTC
From: BASE
Topic: 6098 Message: 6098

Dear friends,

The 40th flight of the BASE program is ready for Wednesday morning at 1210 UTC (8:10 EDT) from the football field at Greencastle High School. Assuming we miss the stadium lights, the burst altitude will be around 80 kft with landing near Cambridge City, Indiana. Downrange 92 miles at 81.3 degrees in 82 minutes!

Flying the geiger counters, LED photometers (inspired by Forrest Mims), digital video cameras, and tilt axis sensors. Radios include APRS (call sign W9YJ-11) every even minute plus 45 seconds on 144.390 MHz (WIDE 2,1) and DominoEX 22 speed on 146.565 MHz (call sign N9QGS) transmitting on every minute for 20 seconds.

Hope to get up and down and recovered before the heavy rains arrive.

Thanks for your support,
Howard

6099. Re: [GPSL] BASE 40 - Go for 8 October 1210 UTC (8:10 Eastern)

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-08 08:04:28 UTC
From: BASE
Topic: 6098 Message: 6099
Attachments: 1 described; binary payloads are missing from this source WARC

Oops, today is Thursday. Flight is still a go. Attached is the prediction for 1500 ft/min ascent and burst at 80 kft.

Howard

--- On Wed, 10/7/09, BASE <basedepauw@...> wrote:

From: BASE <basedepauw@...>
Subject: [GPSL] BASE 40 - Go for 8 October 1210 UTC (8:10 Eastern)
To: "Great Plains Superlaunch" <gpsl@yahoogroups.com>, "Balloon Sked" <balloon_sked@yahoogroups.com>, "Harry Brooks" <hbrooks@...>, n9qgs@..., "Jason Krueger" <jkrueger@...>, "Jeff" <jfdailey@...>
Date: Wednesday, October 7, 2009, 9:54 PM

Dear friends,

The 40th flight of the BASE program is ready for Wednesday morning at 1210 UTC (8:10 EDT) from the football field at Greencastle High School. Assuming we miss the stadium lights, the burst altitude will be around 80 kft with landing near Cambridge City, Indiana. Downrange 92 miles at 81.3 degrees in 82 minutes!

Flying the geiger counters, LED photometers (inspired by Forrest Mims), digital video cameras, and tilt axis sensors. Radios include APRS (call sign W9YJ-11) every even minute plus 45 seconds on 144.390 MHz (WIDE 2,1) and DominoEX 22 speed on 146.565 MHz (call sign N9QGS) transmitting on every minute for 20 seconds.

Hope to get up and down and recovered before the heavy rains arrive.

Thanks for your support,

Howard

6100. 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-08 18:11:57 UTC
From: Mark Conner
Topic: 6100 Message: 6100

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154

While not explicit on the label, it has the code "J352-4" on it, which through a Google search seems to indicate a 600g balloon. Seller asking $20 each with free shipping, more than 10 available. Manufacturing date is Feb 2009. Photo on the listing doesn't indicate any discoloration from improper storage. I need to check my stock at home, but I may get a couple myself.

73 de Mark N9XTN

6101. Re: [GPSL] 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-08 21:01:08 UTC
From: 74115
Topic: 6100 Message: 6101

The description is on page #30.

https://www.fbo.gov/download/cba/cba233d1556fee93cb592c2dcbc7ecb1/Solicitation_DG133W-08-RP-0060.pdf

We used a similar one on ORB-23.
Kaysam "HIGH MODULUS 30KM" (2003) 794g
The GP26 designates "General Purpose 26KM"

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

6102. BASE 40 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-08 21:43:24 UTC
From: BASE
Topic: 6098 Message: 6102

Dear friends,

BASE 40 was successfully completed today.

Launch was about 8 minutes late in a light rain.

Launch at 1218 UTC from southwest corner of track around football field. Had good visual of the ascent for nearly ten minutes.

Burst at 88000 feet at 1319 UTC (average ascent speed of 1440 ft/min). Occurred over the southwest corner of Greenfield, IN.

At 62000 feet at 1323 UTC a catastrophic event occurred during post-burst chaos. The APRS unit remained attached to the parachute, but one of the swivel connectors opened and the remaining string was cut by the carbon fiber tube released the 900 MHZ command pod, DominoEX, geiger counters, video cameras, and photometers. With no chute, these boxes landed in a field southwest of Knightstown and northwest of Carthage, IN. Impact occurred at 1334 UTC and the flight data recorder indicated a speed of about 48 miles/hour 200 feet above the ground. Maximum descent speeds in the free fall reached 120 miles/hour.

With the reduced load, the parachute and APRS unit landed east of Richmond, IN at 1410 UTC in a soybean field about 2.5 miles east of the Indiana-Ohio state line between US 35 and I-70.

I will examine the video for additional details on the separation event. This initial analysis comes from flight data and analysis of the payload strings.

Thanks again for your support,
Howard

P.S. - I know that Bill Brown would appreciate any feedback from those that attempted to receive the Domino EX signal.

6103. Re: [GPSL] 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-09 06:07:37 UTC
From: wb8elk@aol.com
Topic: 6100 Message: 6103

Unless I'm missing something, I don't see any spec that states these are 600 gram balloons...just looking at the photo seems like it's smaller than a 600 gram envelope....going by the standard burst altitude chart on Kaymont's website....the closest one to 26KM burst?with their standard radiosonde weights would indicate that these may possibly?be their KCI 350 balloons.....i.e. 350 gram size....although it would be a

- Bill WB8ELK

Anyone else have a better guess?.....can't find any details on the government stock numbers that say anything else but 26KM.

-----Original Message-----
From: 74115 <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Thu, Oct 8, 2009 4:01 pm
Subject: Re: [GPSL] 600-gram balloons on eBay

The description is on page #30.

?

https://www.fbo.gov/download/cba/cba233d1556fee93cb592c2dcbc7ecb1/Solicitation_DG133W-08-RP-0060.pdf

?

We used a similar one on ORB-23.

Kaysam "HIGH MODULUS 30KM" (2003) 794g

The GP26 designates "General Purpose 26KM"

?

?

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page? - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

?

6104. Re: [GPSL] 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-09 06:14:48 UTC
From: wb8elk@aol.com
Topic: 6100 Message: 6104

I finally found it:

http://www.geo-nwsjan.msstate.edu/docs/chapters/Chpt-10.pdf

Page 10-10 does indeed state that the GP26KM is the new designator for what used to be called a 600 gram balloon.

So this does seem to indicate that these are indeed 600 gram balloons which is a good deal.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
Sent: Thu, Oct 8, 2009 1:11 pm
Subject: [GPSL] 600-gram balloons on eBay

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154

?

While not explicit on the label, it has the code "J352-4" on it, which through a Google search seems to indicate a 600g balloon.? Seller asking $20 each with free shipping, more than 10 available.? Manufacturing date is Feb 2009.? Photo on the?listing doesn't indicate any discoloration from improper storage.? I need to check my stock at home, but I may get a couple myself.

?

73 de Mark N9XTN

?

6105. Re: [GPSL] 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-10 01:53:20 UTC
From: Mike Manes
Topic: 6100 Message: 6105

A 600g Totex can make 90K' at 1000 fpm with up to 2 lb hanging off
the neck. That's a typical parachute and a APRS beacon and not much
more.
73 de Mike W5VSI

Mark Conner wrote:
>
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154
> <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154>
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> While not explicit on the label, it has the code "J352-4" on it, which
> through a Google search seems to indicate a 600g balloon. Seller asking
> $20 each with free shipping, more than 10 available. Manufacturing date
> is Feb 2009. Photo on the listing doesn't indicate any discoloration
> from improper storage. I need to check my stock at home, but I may get
> a couple myself.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6106. Re: [GPSL] 600-gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-10 03:46:23 UTC
From: wb8elk@aol.com
Topic: 6100 Message: 6106

Hi Mike and all,

? Yep....600 grams can make a decent altitude with small payloads...exactly why I went ahead and bought a few of these from that eBay auction link....I think he still has some left. The new price on these are around $50.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: KNSP List <KNSP@yahoogroups.com>
Sent: Fri, Oct 9, 2009 8:53 pm
Subject: Re: [GPSL] 600-gram balloons on eBay

A 600g Totex can make 90K' at 1000 fpm with up to 2 lb hanging off
the neck. That's a typical parachute and a APRS beacon and not much
more.
73 de Mike W5VSI

Mark Conner wrote:
>
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154
> <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=370271664154>
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> While not explicit on the label, it has the code "J352-4" on it, which
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> $20 each with free shipping, more than 10 available. Manufacturing date
> is Feb 2009. Photo on the listing doesn't indicate any discoloration
> from improper storage. I need to check my stock at home, but I may get
> a couple myself.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6107. SpacePort Indiana flight this Monday from Columbus, Indiana

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-10 08:22:04 UTC
From: wb8elk@aol.com
Topic: 6107 Message: 6107

Spaceport Indiana flight:

Central Middle School, Columbus, Indiana

Date: 10/12/2009?(Columbus Day)?

Time: 8:30 am EDT

?

location:? 39.27? -85.80?

?

- APRS on 144.39:? WB8ELK-11

- DominoEX22 (no FEC)?on 144.36:? WB8ELK

?

Please email any DominoEX reception logs?to: wb8elk@...

1500 gram helium balloon

?

Predicted landing zone:? Washington Court House, Ohio

?

I recommend either FLdigi or MultiPSK for DominoEX 22 baud speed reception....both are free downloads.
?

6108. "We're not in Kansas anymore" image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-11 16:23:49 UTC
From: lpcoates
Topic: 6108 Message: 6108

Hi

I'm doing a presentation for the Saskatoon Amateur Radio Club on Tuesday night about our trip to GPSL. I wanted to use "We're not in Kansas anymore" image from the 2009 web page but I see that it's been updated to the 2010 image. Does anyone have a copy of the 2009 image?

Thanks

Bruce & Leigh
VE5BNC & VE5LEE

6109. Re: [GPSL] "We're not in Kansas anymore" image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-11 17:31:54 UTC
From: Keith Kaiser
Topic: 6108 Message: 6109

All the images are still on the 2010 page. Just scroll down and look on the right side of the page. If there is any special image you want full size let me know I took most of these.

On Oct 11, 2009, at 11:23 AM, lpcoates wrote:

> Hi
>
> I'm doing a presentation for the Saskatoon Amateur Radio Club on
> Tuesday night about our trip to GPSL. I wanted to use "We're not in
> Kansas anymore" image from the 2009 web page but I see that it's
> been updated to the 2010 image. Does anyone have a copy of the 2009
> image?
>
> Thanks
>
> Bruce & Leigh
> VE5BNC & VE5LEE
>
>

73's
Keith Kaiser
wa0tjt@...

6110. Re: [GPSL] "We're not in Kansas anymore" image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-11 18:37:22 UTC
From: Bruce Coates
Topic: 6108 Message: 6110

Hi Keith

It's the picture at the top of the we page that I'm looking for. The current one reads "Up-Up and Away". Does the one from the top of the 2009 page still exist?

Bruce

----- Original Message -----
From: Keith Kaiser
To: GPSL@yahoogroups.com
Sent: Sunday, October 11, 2009 11:31 AM
Subject: Re: [GPSL] "We're not in Kansas anymore" image

All the images are still on the 2010 page. Just scroll down and look on the right side of the page. If there is any special image you want full size let me know I took most of these.

On Oct 11, 2009, at 11:23 AM, lpcoates wrote:

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Thanks

Bruce & Leigh
VE5BNC & VE5LEE

73's
Keith Kaiser
wa0tjt@...

6111. Re: [GPSL] "We're not in Kansas anymore" image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-11 20:15:53 UTC
From: Keith Kaiser
Topic: 6108 Message: 6111

All the images are still on the 2010 page. Just scroll down and look
on the right side of the page. If there is any special image you want
full size let me know I took mo
On Oct 11, 2009, at 11:23 AM, lpcoates wrote:

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> been updated to the 2010 image. Does anyone have a copy of the 2009
> image?
>
> Thanks
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> Bruce & Leigh
> VE5BNC & VE5LEE
>
>

73's
Keith Kaiser
wa0tjt@...

6112. Re: [GPSL] "We're not in Kansas anymore" image

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-11 23:36:30 UTC
From: Keith Kaiser
Topic: 6108 Message: 6112

All the images are still on the 2010 page. Just scroll down and look
on the right side of the page. If there is any special image you want
full size let me know I took mo
On Oct 11, 2009, at 11:23 AM, lpcoates wrote:

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> Tuesday night about our trip to GPSL. I wanted to use "We're not in
> Kansas anymore" image from the 2009 web page but I see that it's
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> image?
>
> Thanks
>
> Bruce & Leigh
> VE5BNC & VE5LEE
>
>

73's
Keith Kaiser
wa0tjt@...

6113. DominoEX22 will be on Spaceport Indiana balloon today along with streaming video of ground launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-12 07:47:03 UTC
From: wb8elk@aol.com
Topic: 6113 Message: 6113

Launch Date: 10-12-2009

Time: 8:30 am EDT

Location: Central Middle School, Columbus, Indiana

144.360 MHz:? FM mode, DominoEX 22 telemetry WB8ELK

144.390 MHz: APRS, WB8ELK-11

Landing zone:? Mt. Sterling, Ohio about 20 miles SW of Columbus, Ohio

How's that for celebrating Columbus Day?....balloon mail from one Columbus to another.

Streaming video this time will be at:? staring around 7:30 am EDT

http://www.ustream.tv/channel/space-port-indiana-educational-network

?

- Bill WB8ELK

6114. ARBONET 3 Set for launch at Clarksville Airport October 17, 2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-14 21:03:51 UTC
From: Michael
Topic: 6114 Message: 6114

The ARBONET team is planning to fly ARBONET 3 on October 17, 2009. This date was chosen to coincide with JOTA, an event where Boy Scouts nation wide (and even International) utilize Ham radio to exchange hello's and information about themselves and their troops.

We will be flying four payloads this trip, the voice beacon and APRS unit in Payload 1, (we still expect the woman in the payload to get lost again)! In payload 2 and 3 we will have APRS and Cross-Band Repeater as well as cameras, and Payload 4 is a guest payload with a 20M CW beacon from the Richardson Wireless Club.

Liftoff is scheduled for 9:30AM. See http://www.arbonet.net for more details.

Best Regards!

--Michael K5NOT

6115. Salina Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 13:01:51 UTC
From: L. Paul Verhage
Topic: 6115 Message: 6115

I didn't see a link to the online reporting system, so let me pass this on now. Keith, can you email me the link again?

I'll be launching a balloon with Pete Sias and KWU in Salina this Saturday. We may actually launch two of them (there's enough payload). The trackers I'm sendng up will transmit on 144.39 under the callsigns, KD4STH-4, -8, and -9. The balloons are 1500 gram.

Launch takes place from the KWU campus at 8 AM this Saturday. Current trajectory is towards Wichita, but the winds aloft report I looked at didn't go all the way to 95,000 feet.

Zack, we may not be too far from your location. Do you want to help with chase?

--
Onwards and Upwards,
Paul

6116. Re: [GPSL] Salina Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 13:23:27 UTC
From: Keith Kaiser
Topic: 6115 Message: 6116

The announcement page is at; <http://www.arhab.org/ARHABlaunchannouncements.html
> and a link to the form is at the top of the page but here it is
too; <http://www.arhab.org/annomail.html>.

I'll get the posting started with what you gave me, you can fill in
the gaps when you have a minute.

On Oct 15, 2009, at 8:01 AM, L. Paul Verhage wrote:

>
> I didn't see a link to the online reporting system, so let me pass
> this on now. Keith, can you email me the link again?
>
> I'll be launching a balloon with Pete Sias and KWU in Salina this
> Saturday. We may actually launch two of them (there's enough
> payload). The trackers I'm sendng up will transmit on 144.39 under
> the callsigns, KD4STH-4, -8, and -9. The balloons are 1500 gram.
>
> Launch takes place from the KWU campus at 8 AM this Saturday.
> Current trajectory is towards Wichita, but the winds aloft report I
> looked at didn't go all the way to 95,000 feet.
>
> Zack, we may not be too far from your location. Do you want to help
> with chase?
>
> --
> Onwards and Upwards,
> Paul
>
>

73's
Keith Kaiser
wa0tjt@...

6117. Greetings, everyone!

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 14:52:07 UTC
From: Rodney Sparks
Topic: 6117 Message: 6117

Hello all,

I've fairly recently discovered the hobby of high-altitude ballooning, and have yet to do my first launch. I'm having fun in the planning stage at this point. ;-)

While looking around on the web, I didn't find an online forum on the topic of high-altitude ballooning (and I didn't know about this list until Paul Verhage pointed me here). I've created a web-based forum at http://www.nearspace.org for the discussion of high-altitude ballooning and all of its facets, including telemetry/tracking based on amateur radio, ISM bands, cellular networks and/OR completely GPS-based solutions (Find Me Spot tracker). I find web-based forums to be a really slick medium for online communities, as a person doesn't have to read about topics in which he isn't interested, but can if he so chooses.

I'd like to extend an invitation to any and all of you who are interested in participating in discussions over there. I plan to be active on this list as well as on the forum. My desire is to bring people together that may or may not have started out as amateur radio operators, but rather could have started out with simply the desire to send a payload into near space and prove to themselves that the world is indeed round, using any and all technology available to do it in the slickest/cheapest/coolest manner possible. The success of a web-based forum, as with an e-mail list, depends greatly on the "technical backbone" of subject matter experts that share their experiences and guide newbies in the right direction, and I hope that some of you are itching to find an additional portal through which to share your passion for ballooning.

Whether you participate or not, I'm also interested in any and all feedback with regard to how I have the site set up, etc... I want this to be the best it can be for the hobby. I've experienced several very successful web-based online communities, such as MegaSquirt EFI (www.msefi.com), and am very optimistic about what it can do for this hobby in this increasingly tech-savvy world.

Respectfully yours,

-Rodney Sparks
http://www.nearspace.org
http://www.cs-eng.us

6118. Re: [GPSL] Salina Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 17:10:51 UTC
From: Zack Clobes
Topic: 6115 Message: 6118

I'd love to help chase, but I have to work this weekend until noon, and don't have a way out at this point. I'll pass this along to Jon to see if he wants to go.

I'd be available after noon if you're having any recovery issues.

Zack

On Thu, Oct 15, 2009 at 8:23 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
>
> The announcement page is at; <
> http://www.arhab.org/ARHABlaunchannouncements.html> and a link to the form
> is at the top of the page but here it is too; <
> http://www.arhab.org/annomail.html>.
>
> I'll get the posting started with what you gave me, you can fill in the
> gaps when you have a minute.
>
> On Oct 15, 2009, at 8:01 AM, L. Paul Verhage wrote:
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> I didn't see a link to the online reporting system, so let me pass this on
> now. Keith, can you email me the link again?
>
> I'll be launching a balloon with Pete Sias and KWU in Salina this
> Saturday. We may actually launch two of them (there's enough payload). The
> trackers I'm sendng up will transmit on 144.39 under the callsigns,
> KD4STH-4, -8, and -9. The balloons are 1500 gram.
>
> Launch takes place from the KWU campus at 8 AM this Saturday. Current
> trajectory is towards Wichita, but the winds aloft report I looked at didn't
> go all the way to 95,000 feet.
>
> Zack, we may not be too far from your location. Do you want to help with
> chase?
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> --
> Onwards and Upwards,
> Paul
>
>
>
> 73's
> Keith Kaiser

> wa0tjt@...
>
>
>
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>

6119. Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 17:24:01 UTC
From: L. Paul Verhage
Topic: 6119 Message: 6119

I've updated the webpage with launch information. In case you don't see it, the trackers going up are N0OY-11 and KD4STH-9 (and probably also -8 and -4). N0OY-11 is transmitting on 144.34. KD4STH is transmitting on 144.39.

The flight is for Kansas Wesylan and KU. I'll be curious to see how well KD4STH-4 comes through, it's the lunch bag tracker with a MT-300 and dipole made from 12 stranded wire.

--
Onwards and Upwards,
Paul

6120. 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 18:42:33 UTC
From: Greg Williams
Topic: 6115 Message: 6120
Attachments: 2 described; binary payloads are missing from this source WARC

http://www.9news.com/news/article.aspx?storyid=125161&catid=339 (pics of the balloon on web site)

[I'm worried for the kid, but at the same time, envious...]

LARIMER COUNTY - Officials in Larimer County are actively searching for a child who literally floated away from his family's home on an experimental aircraft.

According to the Larimer County Sheriff's Department, the 6-year-old boy's family had been building an experimental aircraft which had a large helium balloon attached at their home on Fossil Ridge Road in Fort Collins.

On Thursday morning, according to the family and officials, the boy got onto the aircraft and detached the rope holding it in place.

The aircraft is described by the sheriff's office as a dome-shaped, 20 foot, 5 foot aircraft covered with foil.

Viewer Lisa Eklund sent photos of an aircraft in the air near her home on Saturn Drive, also in Fort Collins.

The Federal Aviation Administration is working to track the aircraft on its radar tower and has notified the Denver International Airport.

Shortly after noon, the Weld County Sheriff's Office says the boy was lseen two miles south of Evans, near County Road 46 and Highway 85. Sky9 is now helping track the aircraft.

9NEWS and Sky9 are following this story and will continue to provide updates as they are available.

Greg Williams
gregwilliams@...
k4hsm@...

6121. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 19:48:47 UTC
From: Joe
Topic: 6115 Message: 6121
Attachments: 2 described; binary payloads are missing from this source WARC

I feel it's far too small even to lift a child this small.

Plus, ummm, why doesn't anyone talk to the parents yet to see where the kid is?

Greg Williams wrote:

> http://www.9news.com/news/article.aspx?storyid=125161&catid=339
> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339>
> (pics of the balloon on web site)
>
> [I'm worried for the kid, but at the same time, envious...]
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> LARIMER COUNTY - Officials in Larimer County are actively searching
> for a child who literally floated away from his family's home on an
> experimental aircraft.
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> According to the Larimer County Sheriff
> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#>'s
> Department, the 6-year-old boy's family had been building an
> experimental aircraft which had a large helium balloon attached at
> their home on Fossil Ridge Road in Fort Collins.
>
> On Thursday morning, according to the family and officials, the boy
> got onto the aircraft and detached the rope holding it in place.
>
> The aircraft is described by the sheriff's office as a dome-shaped, 20
> foot, 5 foot aircraft covered with foil.
>
> Viewer Lisa Eklund sent photos
> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> of
> an aircraft in the air near her home on Saturn Drive, also in Fort
> Collins.
>
> The Federal Aviation Administration
> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> is
> working to track the aircraft on its radar tower and has notified the
> Denver International Airport.
>
> Shortly after noon, the Weld County Sheriff's Office says the boy was
> lseen two miles south of Evans, near County Road 46 and Highway 85.
> Sky9 is now helping track the aircraft.
>
> 9NEWS and Sky9 are following this story and will continue to provide
> updates as they are available.

>
> Greg Williams
> gregwilliams@... <mailto:gregwilliams@...>
> k4hsm@... <mailto:k4hsm@...>
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
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6122. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 19:58:38 UTC
From: Mark Conner
Topic: 6115 Message: 6122
Attachments: 2 described; binary payloads are missing from this source WARC

Excellent point! If the dimensions quoted are correct (20 ft dia, 5 ft thick), that's only a bit over 300 cu ft. That's what, about 16 lbs gross lift? This is simply figuring on a cylinder of that size - a saucer shape would be less (think round Mylar balloon on its side).

Dimensions of 30 x 8 would roughly double the lift figure, still marginal for a 6-yo (mine weighs about 40 lbs and she's small for her age). From what I remember of the landing footage and the people next to the balloon, 30x8 may be closer to correct.

The thing with the parents is odd - seems the authorities are closed-mouthed about that at the moment.

- Mark

On Thu, Oct 15, 2009 at 14:48, Joe <nss@...> wrote:

> I feel it's far too small even to lift a child this small.
>
> Plus, ummm, why doesn't anyone talk to the parents yet to see where the
> kid is?
>
>
> Greg Williams wrote:
>
> http://www.9news.com/news/article.aspx?storyid=125161&catid=339 (pics of
> the balloon on web site)
>
> [I'm worried for the kid, but at the same time, envious...]
>
> LARIMER COUNTY - Officials in Larimer County are actively searching for a
> child who literally floated away from his family's home on an experimental
> aircraft.
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> According to the Larimer County
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> Department, the 6-year-old boy's family had been building an experimental
> aircraft which had a large helium balloon attached at their home on Fossil
> Ridge Road in Fort Collins.
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> On Thursday morning, according to the family and officials, the boy got
> onto the aircraft and detached the rope holding it in place.
>
> The aircraft is described by the sheriff's office as a dome-shaped, 20
> foot, 5 foot aircraft covered with foil.

>
> Viewer Lisa Eklund sent
photos<http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> of
> an aircraft in the air near her home on Saturn Drive, also in Fort Collins.
>
> The Federal Aviation
Administration<http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> is
> working to track the aircraft on its radar tower and has notified the Denver
> International Airport.
>
> Shortly after noon, the Weld County Sheriff's Office says the boy was lseen
> two miles south of Evans, near County Road 46 and Highway 85. Sky9 is now
> helping track the aircraft.
>
> 9NEWS and Sky9 are following this story and will continue to provide
> updates as they are available.
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> gregwilliams@...
> k4hsm@...
>
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> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
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6123. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 19:59:11 UTC
From: Rodney Sparks
Topic: 6115 Message: 6123
Attachments: 2 described; binary payloads are missing from this source WARC

I think the kid and his brother just played the prank of a lifetime on their parents AND the rest of the world. The kid's probably hiding somewhere.

-Rodney

On Thu, Oct 15, 2009 at 12:48 PM, Joe <nss@...> wrote:

> I feel it's far too small even to lift a child this small.
>
> Plus, ummm, why doesn't anyone talk to the parents yet to see where the
> kid is?
>
>
> Greg Williams wrote:
>
> http://www.9news.com/news/article.aspx?storyid=125161&catid=339 (pics of
> the balloon on web site)
>
> [I'm worried for the kid, but at the same time, envious...]
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> LARIMER COUNTY - Officials in Larimer County are actively searching for a
> child who literally floated away from his family's home on an experimental
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> aircraft which had a large helium balloon attached at their home on Fossil
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> On Thursday morning, according to the family and officials, the boy got
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> Viewer Lisa Eklund sent
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>

6124. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 20:06:25 UTC
From: Joe
Topic: 6115 Message: 6124
Attachments: 2 described; binary payloads are missing from this source WARC

The next question is now,,

I know of a few groups (Mine included) that have had rouge flights, but they really didn't cost anyone anything other than time reporting where it is for a long time.

Now this though,

we got Black hawks, other copters, we have ground earch and rescue people. etc. what a simple Medivac flight costs, this will have to cost maybe 100 grand on costs to the state governments/ are they going to be liable for this? especially no one knew or knows where the kid is?

Worst case I can see is, if it was possible to take off, sadly he fell out sometime during the flightand thats why no one is saying where he is, because they simply don't know where the body is.

BUT, still i think it was too small, and as soon as i seen the footage on TV while it was flying I was like 99% sure there was nothing in the "Gondola" for several times that thing almost turned up side down while it was flying.

If it had a 40 pound ballast weight in it, there would be absolutely no way the thing could almost flip up side down like that.

Joe

Rodney Sparks wrote:

>
>
> I think the kid and his brother just played the prank of a lifetime on
> their parents AND the rest of the world. The kid's probably hiding
> somewhere.
>
> -Rodney
>
>
> On Thu, Oct 15, 2009 at 12:48 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> I feel it's far too small even to lift a child this small.
>
> Plus, ummm, why doesn't anyone talk to the parents yet to see
> where the kid is?
>

>
> Greg Williams wrote:
>
>> http://www.9news.com/news/article.aspx?storyid=125161&catid=339
>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339>
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>>
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>> According to the Larimer County Sheriff
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>> Department, the 6-year-old boy's family had been building an
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>> at their home on Fossil Ridge Road in Fort Collins.
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>> boy got onto the aircraft and detached the rope holding it in place.
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>> dome-shaped, 20 foot, 5 foot aircraft covered with foil.
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>> Viewer Lisa Eklund sent photos
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>> an aircraft in the air near her home on Saturn Drive, also in
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>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> is
>> working to track the aircraft on its radar tower and has notified
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>> 9NEWS and Sky9 are following this story and will continue to
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>

6125. balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 20:24:17 UTC
From: Mark Conner
Topic: 6125 Message: 6125
Attachments: 1 described; binary payloads are missing from this source WARC

Attached is a screen shot of the balloon at landing. The picture is distorted as it's a video capture, but even so you can see there's almost no way the balloon can be more than 6 ft top to bottom and is 25 ft in diameter if one is generous. That puts an upper bound of about 470 cubic feet, for 30 pounds of total lift.

The boy never left the ground.

73 de Mark N9XTN

6126. Re: [GPSL] balloon mystery deepens [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 20:32:20 UTC
From: Mark Conner
Topic: 6125 Message: 6126

One other "duh" observation just occurred to me. If it were big enough to get the boy off the ground and he fell out, the 40+ pounds of free lift would have rocketed the balloon out of the troposphere at a pretty good ascent rate - it wouldn't become neutrally buoyant at a few thousand feet AGL.

- Mark

On Thu, Oct 15, 2009 at 15:24, Mark Conner <mconner1@...> wrote:

> [Attachment(s)<http://mail.google.com/mail/?ui=2&view=js&name=js&ver=W4l_wni_zd8.en.&am=!iBuYvrfV6ffpRdlgwfwyQqhwX4CxEK3LxwIcO7kO#12459df7f154f203_TopText>from Mark Conner included below]
>
> Attached is a screen shot of the balloon at landing. The picture is
> distorted as it's a video capture, but even so you can see there's almost no
> way the balloon can be more than 6 ft top to bottom and is 25 ft in diameter
> if one is generous. That puts an upper bound of about 470 cubic feet, for
> 30 pounds of total lift.
>
> The boy never left the ground.
>
> 73 de Mark N9XTN
>
>
> Attachment(s) from Mark Conner
>
> 1 of 1 Photo(s)
> [image: 2143004322.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
> 2143004322.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
>
>
>

6127. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 20:42:32 UTC
From: Rodney Sparks
Topic: 6115 Message: 6127
Attachments: 2 described; binary payloads are missing from this source WARC

So, did you guys see the black and yellow "static sensitive" stickers around the periphery of the balloon? Based on that, I'd say it might have been filled with hydrogen, not helium. That's only about 8% more buoyancy though.

I figure that if that balloon had 40 pounds of ballast on it and then lost that ballast, it wouldn't have stopped ascending at ~8k ft like they said it did, unless that drooping side of the balloon had a tear in it and most of the gas had escaped along the way somewhere.

-Rodney

On Thu, Oct 15, 2009 at 1:06 PM, Joe <nss@...> wrote:

> The next question is now,,
>
> I know of a few groups (Mine included) that have had rouge flights, but
> they really didn't cost anyone anything other than time reporting where it
> is for a long time.
>
> Now this though,
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> we got Black hawks, other copters, we have ground earch and rescue
> people. etc. what a simple Medivac flight costs, this will have to cost
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> liable for this? especially no one knew or knows where the kid is?
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> Worst case I can see is, if it was possible to take off, sadly he fell
> out sometime during the flightand thats why no one is saying where he is,
> because they simply don't know where the body is.
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> BUT, still i think it was too small, and as soon as i seen the footage
> on TV while it was flying I was like 99% sure there was nothing in the
> "Gondola" for several times that thing almost turned up side down while it
> was flying.
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> If it had a 40 pound ballast weight in it, there would be absolutely no
> way the thing could almost flip up side down like that.
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> Joe
>
>
> Rodney Sparks wrote:
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> I think the kid and his brother just played the prank of a lifetime on

> their parents AND the rest of the world. The kid's probably hiding
> somewhere.
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> -Rodney
>
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> On Thu, Oct 15, 2009 at 12:48 PM, Joe <nss@...> wrote:
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>> I feel it's far too small even to lift a child this small.
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>> Plus, ummm, why doesn't anyone talk to the parents yet to see where the
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>> Greg Williams wrote:
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6128. Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 20:33:04 UTC
From: James Hannon
Topic: 6125 Message: 6128

I will bet the kid untied it and hid to avoid punishment for letting it go.
Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Mark Conner" <mconner1@...>
Sent 10/15/2009 3:32:20 PM
To: "GPSL list" <GPSL@yahoogroups.com>, "EOSS membership reflector" <EOSS@yahoogroups.com>
Subject: Re: [GPSL] balloon mystery deepensOne other "duh" observation just occurred to me. If it were big enough to get the boy off the ground and he fell out, the 40+ pounds of free lift would have rocketed the balloon out of the troposphere at a pretty good ascent rate - it wouldn't become neutrally buoyant at a few thousand feet AGL. - MarkOn Thu, Oct 15, 2009 at 15:24, Mark Conner <mconner1@gmail.com> wrote:[Attachment(s) from Mark Conner included below]Attached is a screen shot of the balloon at landing. The picture is distorted as it's a video capture, but even so you can see there's almost no way the balloon can be more than 6 ft top to bottom and is 25 ft in diameter if one is generous. That puts an upper bound of about 470 cubic feet, for 30 pounds of total lift. The boy never left the ground. 73 de Mark N9XTN Attachment(s) from Mark Conner 1 of 1 Photo(s) 2143004322.jpg

6129. Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:06:33 UTC
From: Joe
Topic: 6125 Message: 6129

This is getting weird.

Ok
I'm making assumptions here say he did have it fully inflated so it looked right. Nice flying saucer shape. and that it did have enough lift, assume it did get airborne, with the boy (hope not) but say it did, and the loweer part of the gondola did fall off, Like others have said it then would have taken off like a rocket, BUT, having such an excess amount of lift of course it would pressure that envlope quite quickly since it was probably pretty full already on the ground, not too much altitude and i would think it would have tore open a seam, which it probably did because of the one side that was not inflated anymore because that area had the tear.

Now a question to the EOSS guys,

have any of you tried to run a flight profile of this thing and possibly offer it to the authorities for the possible flight path it might have taken? i don't know if anyone in the search and rescue field would have programs for predicting flight paths like this or not.

might be nice to just offer it?

maynbe?

Joe

James Hannon wrote:

>
>
> I will bet the kid untied it and hid to avoid punishment for letting
> it go.
>
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "Mark Conner" <mconner1@...>
> Sent 10/15/2009 3:32:20 PM
> To: "GPSL list" <GPSL@yahoogroups.com>, "EOSS membership reflector"
> <EOSS@yahoogroups.com>

> Subject: Re: [GPSL] balloon mystery deepens
>
> One other "duh" observation just occurred to me. If it were big
> enough to get the boy off the ground and he fell out, the 40+ pounds
> of free lift would have rocketed the balloon out of the troposphere at
> a pretty good ascent rate - it wouldn't become neutrally buoyant at a
> few thousand feet AGL.
>
> - Mark
>
> On Thu, Oct 15, 2009 at 15:24, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
> [Attachment(s)
> <http://mail.google.com/mail/?ui=2&view=js&name=js&ver=W4l_wni_zd8.en.&am=%21iBuYvrfV6ff
pRdlgwfwyQqhwX4CxEK3LxwIcO7kO#12459df7f154f203_TopText>
> from Mark Conner included below]
>
> Attached is a screen shot of the balloon at landing. The picture
> is distorted as it's a video capture, but even so you can see
> there's almost no way the balloon can be more than 6 ft top to
> bottom and is 25 ft in diameter if one is generous. That puts an
> upper bound of about 470 cubic feet, for 30 pounds of total lift.
>
> The boy never left the ground.
>
> 73 de Mark N9XTN
>
>
> Attachment(s) from Mark Conner
>
> 1 of 1 Photo(s)
>
> 2143004322.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
> 2143004322.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
>

>
>

6130. Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:17:52 UTC
From: Mark Conner
Topic: 6125 Message: 6130

The forecast wind profile was pretty unidirectional from the northwest from surface to about 15,000 MSL. I'd bet it didn't go more than a mile or two either side of a straight line from launch to landing.

Also, if you watched the rescue crew at the landing, no one searched the gondola right away, so I think they knew he was not aboard even before it landed. Their main concern was keeping the balloon on the ground.
Something is up.

- Mark

On Thu, Oct 15, 2009 at 16:06, Joe <nss@...> wrote:

>
> have any of you tried to run a flight profile of this thing and possibly
> offer it to the authorities for the possible flight path it might have
> taken? i don't know if anyone in the search and rescue field would have
> programs for predicting flight paths like this or not.
>
> might be nice to just offer it?
>
> maynbe?
>
>

6131. Re: [EOSS] Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:25:51 UTC
From: Chuck Kimball
Topic: 6125 Message: 6131

Listening to the scanner, the responders were told to be cautious of the envelope and anything silver
as it may have a 10,000 volt charge on it. Apparently some part of the science experiment that the
balloon was intended for. They were told to look for something on the side of it to indicate zero before
handling it. Hence the caution, slowness to jump on it.

Chuck

Mark Conner wrote:
> The forecast wind profile was pretty unidirectional from the northwest from
> surface to about 15,000 MSL. I'd bet it didn't go more than a mile or two
> either side of a straight line from launch to landing.
>
> Also, if you watched the rescue crew at the landing, no one searched the
> gondola right away, so I think they knew he was not aboard even before it
> landed. Their main concern was keeping the balloon on the ground.
> Something is up.
>
> - Mark
>
> On Thu, Oct 15, 2009 at 16:06, Joe <nss@...> wrote:
>
>
>> have any of you tried to run a flight profile of this thing and possibly
>> offer it to the authorities for the possible flight path it might have
>> taken? i don't know if anyone in the search and rescue field would have
>> programs for predicting flight paths like this or not.
>>
>> might be nice to just offer it?
>>
>> maynbe?
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links

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6132. Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:34:22 UTC
From: Joe
Topic: 6125 Message: 6132

watching CNN they have no clue as to the path it could have taken it
seems, they need help.

Mark Conner wrote:

>
>
> The forecast wind profile was pretty unidirectional from the northwest
> from surface to about 15,000 MSL. I'd bet it didn't go more than a
> mile or two either side of a straight line from launch to landing.
>
> Also, if you watched the rescue crew at the landing, no one searched
> the gondola right away, so I think they knew he was not aboard even
> before it landed. Their main concern was keeping the balloon on the
> ground. Something is up.
>
> - Mark
>
> On Thu, Oct 15, 2009 at 16:06, Joe <nss@... <mailto:nss@...>>
> wrote:
>
>
> have any of you tried to run a flight profile of this thing and
> possibly offer it to the authorities for the possible flight path
> it might have taken? i don't know if anyone in the search and
> rescue field would have programs for predicting flight paths like
> this or not.
>
> might be nice to just offer it?
>
> maynbe?
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>----------
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
>
>
>

6133. Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:53:44 UTC
From: Joe
Topic: 6115 Message: 6133

CNN is talking to the sherriff people, and they are searching the area directly easdt of the launch site.

They say it landed southeast, but they say it could have taken a path that could be anywhere from due east to due south than drifted to the south east.

wow. they do not have any idea as to the path this thing took.

>
>

6134. Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 21:58:42 UTC
From: Robert Rochte
Topic: 6115 Message: 6134

How are you guys coming up with a volume under 500 cubic feet? If you base this on a simple cylinder, then it's pi*r^2*length. If it's 25' in diametre and 6' tall, then it would have a volume of almost 3000 cubic feet.

6135. Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 22:26:41 UTC
From: wb8elk@aol.com
Topic: 6115 Message: 6135

I came up with 1040 cubic feet.....volume of an ellipsoid that is 20 feet in diameter and 5 feet tall....however, comparing the diameter in the field against the height of the responders...it looks closer 14 feet in diameter.

- Bill WB8ELK

-----Original Message-----
From: Robert Rochte <rrochte@...>
To: GPSL@yahoogroups.com
Cc: Ballooning@yahoogroups.com
Sent: Thu, Oct 15, 2009 4:58 pm
Subject: Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

How are you guys coming up with a volume under 500 cubic feet? If you base this on a simple cylinder, then it's pi*r^2*length. If it's 25' in diametre and 6' tall, then it would have a volume of almost 3000 cubic feet.

6136. Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 22:35:34 UTC
From: Joe
Topic: 6115 Message: 6136

Now like i said i wonder who's gonna pay for all that now? hmmmm?

wb8elk@... wrote:

>
>
> I came up with 1040 cubic feet.....volume of an ellipsoid that is 20
> feet in diameter and 5 feet tall....however, comparing the diameter in
> the field against the height of the responders...it looks closer 14
> feet in diameter.
>
> - Bill WB8ELK
>
>
>
>
>
>
> -----Original Message-----
> From: Robert Rochte <rrochte@...>
> To: GPSL@yahoogroups.com
> Cc: Ballooning@yahoogroups.com
> Sent: Thu, Oct 15, 2009 4:58 pm
> Subject: Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon
>
>
>
> How are you guys coming up with a volume under 500 cubic feet? If you
> base this on a simple cylinder, then it's pi*r^2*length. If it's 25'
> in diametre and 6' tall, then it would have a volume of almost 3000
> cubic feet.
>
>
>
>
>--
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
>
>
>

6137. Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-15 23:29:33 UTC
From: Mark Conner
Topic: 6115 Message: 6137

Total brain lock - I was using pi*d*h for volume instead of p*r^2*h. Trying again, assuming a cylinder 20 ft in diameter and 5 ft tall would be 1570 cu ft and that would be enough to lift close to 100 lbs. Bill's ellipsoid model would lift about 65 lbs.

Should have taken a nap instead of committing math on the e-mail list.

- Mark

On Thu, Oct 15, 2009 at 17:26, <wb8elk@...> wrote:

>
>
> I came up with 1040 cubic feet.....volume of an ellipsoid that is 20 feet
> in diameter and 5 feet tall....however, comparing the diameter in the field
> against the height of the responders...it looks closer 14 feet in diameter.
>
> - Bill WB8ELK
>
>
>
>
>
>
> -----Original Message-----
> From: Robert Rochte <rrochte@...>
> To: GPSL@yahoogroups.com
> Cc: Ballooning@yahoogroups.com
> Sent: Thu, Oct 15, 2009 4:58 pm
> Subject: Re: [Ballooning] Re: [GPSL] 6-yr old in experimental balloon
>
>
> How are you guys coming up with a volume under 500 cubic feet? If you base
> this on a simple cylinder, then it's pi*r^2*length. If it's 25' in diametre
> and 6' tall, then it would have a volume of almost 3000 cubic feet.
>
>
>
>

6138. Re: [GPSL] Salina Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 02:52:25 UTC
From: Jon Riley
Topic: 6115 Message: 6138

Nope,can't go.Band trip to Carthage,MO on Sat.

--- On Thu, 10/15/09, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: Re: [GPSL] Salina Launch
To: GPSL@yahoogroups.com
Cc: "Jon Riley" <aj0nr@...>
Date: Thursday, October 15, 2009, 12:10 PM

I'd love to help chase, but I have to work this weekend until noon, and don't have a way out at this point. I'll pass this along to Jon to see if he wants to go.

I'd be available after noon if you're having any recovery issues.

Zack

On Thu, Oct 15, 2009 at 8:23 AM, Keith Kaiser <wa0tjt@gmail. com> wrote:

The announcement page is at; <http://www.arhab. org/ARHABlauncha nnouncements. html> and a link to the form is at the top of the page but here it is too; <http://www.arhab. org/annomail. html>.

I'll get the posting started with what you gave me, you can fill in the gaps when you have a minute.

On Oct 15, 2009, at 8:01 AM, L. Paul Verhage wrote:

I didn't see a link to the online reporting system, so let me pass this on now. Keith, can you email me the link again?

I'll be launching a balloon with Pete Sias and KWU in Salina this Saturday. We may actually launch two of them (there's enough payload). The trackers I'm sendng up will transmit on 144.39 under the callsigns, KD4STH-4, -8, and -9. The balloons are 1500 gram.

Launch takes place from the KWU campus at 8 AM this Saturday. Current trajectory is towards Wichita, but the winds aloft report I looked at didn't go all the way to 95,000 feet.

Zack, we may not be too far from your location. Do you want to help with chase?

--
Onwards and Upwards,
Paul

73's
Keith Kaiser
wa0tjt@gmail. com

6139. Re: [EOSS] Fwd: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 05:17:03 UTC
From: Mike Manes
Topic: 6139 Message: 6139

Joe's correct.

And that's basically what I told the reporter from CNN who called to ask my views. At the time, all I knew was from the Ch 9 news 'copter reports, and told them that a balloon that shape made of aluminized mylar would have to be about 100 ft in diameter to carry a 70-80 lb kid. Once the actual size was reported, I knew it never would have gotten off the deck with that much weight.

Friend wife told me that the family's going to be on Larry King Live. Much ado, but it could have been pretty tragic if the bag had been a lot bigger.

73 de Mike W5VSI

Mark Conner wrote:
> Joe WB9SBD brought up on another list that the balloon volume appears too
> small to loft a 6-yo (quoted dimensions were 20 ft dia by 5 ft thick - about
> 300 cu ft). You'd need closer to 1000 cubic feet to lift 60 lbs, and the
> balloon's dimensions seemed to indicate half that or less. So I doubt the
> boy ever got off the ground - the only "witness" is a younger sibling.
>
>>From the way the rescue crew approached the balloon, I think they knew no
> one was in it when it landed. Something's up.......
>
> 73 de Mark N9XTN
>
> On Thu, Oct 15, 2009 at 15:11, Bob Ragain <tenn404mogger@...> wrote:
>
>>
>> This story is even commanding full time talk show interest here in east
>> Tenn! We just heard the kid fell out then the balloon landed softly. Sure
>> sounds fishy, that balloon would have headed for outer space if it lost that
>> much payload.
>>
>> Inquiring minds want to know LOL....but sure hope the kid is ok.
>>
>> Bob WB4ETT
>>
>> --- On Thu, 10/15/09, Mark Conner <mconner1@...<mconner1%40gmail.com>>
>> wrote:
>>
>> From: Mark Conner <mconner1@... <mconner1%40gmail.com>>
>> Subject: [EOSS] Fwd: [GPSL] 6-yr old in experimental balloon
>> To: "EOSS membership reflector" <EOSS@yahoogroups.com<EOSS%40yahoogroups.com>
>> Date: Thursday, October 15, 2009, 2:16 PM

>>
>>
>>
>> Altitude was reported to be about 8500 ft, oscillating up and down.
>>
>> Forecast soundings show NW winds at 10-20 knots below 15,000 ft, so this
>>
>> should carry the balloon away from the Front Range.
>>
>> 73 de Mark N9XTN
>>
>> ---------- Forwarded message ----------
>>
>> From: Greg Williams <gregwilliams@ knology.net>
>>
>> Date: Thu, Oct 15, 2009 at 13:42
>>
>> Subject: [GPSL] 6-yr old in experimental balloon
>>
>> To: GPSL@yahoogroups. com
>>
>> Cc: ballooning@yahoogro ups.com
>>
>> http://www.9news. com/news/ article.aspx? storyid=125161& catid=339 (pics
>> of
>>
>> the balloon on web site)
>>
>> [I'm worried for the kid, but at the same time, envious...]
>>
>> LARIMER COUNTY - Officials in Larimer County are actively searching for a
>>
>> child who literally floated away from his family's home on an experimental
>>
>> aircraft.
>>
>> According to the Larimer County
>>
>> Sheriff<http://www.9news. com/news/ article.aspx? storyid=125161&
>> catid=339#>'s
>>
>> Department, the 6-year-old boy's family had been building an experimental
>>
>> aircraft which had a large helium balloon attached at their home on Fossil
>>
>> Ridge Road in Fort Collins.
>>
>> On Thursday morning, according to the family and officials, the boy got
>> onto
>>

>> the aircraft and detached the rope holding it in place.
>>
>> The aircraft is described by the sheriff's office as a dome-shaped, 20
>> foot,
>>
>> 5 foot aircraft covered with foil.
>>
>> Viewer Lisa Eklund sent
>>
>> photos<http://www.9news. com/news/ article.aspx? storyid=125161&
>> catid=339#>
>>
>> of
>>
>> an aircraft in the air near her home on Saturn Drive, also in Fort Collins.
>>
>> The Federal Aviation
>>
>> Administration<http://www.9news. com/news/ article.aspx? storyid=125161&
>> catid=339#>
>>
>> is
>>
>> working to track the aircraft on its radar tower and has notified the
>> Denver
>>
>> International Airport.
>>
>> Shortly after noon, the Weld County Sheriff's Office says the boy was lseen
>>
>> two miles south of Evans, near County Road 46 and Highway 85. Sky9 is now
>>
>> helping track the aircraft.
>>
>> 9NEWS and Sky9 are following this story and will continue to provide
>> updates
>>
>> as they are available.
>>
>> Greg Williams
>>
>> gregwilliams@ knology.net
>>
>> k4hsm@knology. net
>>
>> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6140. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 05:23:07 UTC
From: Mike Manes
Topic: 6115 Message: 6140

If the fill gas (and residual air) had completely filled the envelope, then it would have behaved like a super-pressure balloon and floated at an altitude where the weight of the displaced air equaled the total balloon + payload weight (Eureka!). But SP bags have got to be strong, like bull, to hold much pressure, so a seam may have opened up letting the gas vent, and that brought it back down.

73 de Mike W5VSI

Rodney Sparks wrote:
>
>
> So, did you guys see the black and yellow "static sensitive" stickers
> around the periphery of the balloon? Based on that, I'd say it might
> have been filled with hydrogen, not helium. That's only about 8% more
> buoyancy though.
>
> I figure that if that balloon had 40 pounds of ballast on it and then
> lost that ballast, it wouldn't have stopped ascending at ~8k ft like
> they said it did, unless that drooping side of the balloon had a tear in
> it and most of the gas had escaped along the way somewhere.
>
> -Rodney
>
>
> On Thu, Oct 15, 2009 at 1:06 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> The next question is now,,
>
> I know of a few groups (Mine included) that have had rouge
> flights, but they really didn't cost anyone anything other than
> time reporting where it is for a long time.
>
> Now this though,
>
> we got Black hawks, other copters, we have ground earch and rescue
> people. etc. what a simple Medivac flight costs, this will have
> to cost maybe 100 grand on costs to the state governments/ are they
> going to be liable for this? especially no one knew or knows where
> the kid is?
>
> Worst case I can see is, if it was possible to take off, sadly he
> fell out sometime during the flightand thats why no one is saying
> where he is, because they simply don't know where the body is.

>
> BUT, still i think it was too small, and as soon as i seen the
> footage on TV while it was flying I was like 99% sure there was
> nothing in the "Gondola" for several times that thing almost turned
> up side down while it was flying.
>
> If it had a 40 pound ballast weight in it, there would be
> absolutely no way the thing could almost flip up side down like that.
>
> Joe
>
>
> Rodney Sparks wrote:
>> I think the kid and his brother just played the prank of a
>> lifetime on their parents AND the rest of the world. The kid's
>> probably hiding somewhere.
>>
>> -Rodney
>>
>>
>> On Thu, Oct 15, 2009 at 12:48 PM, Joe <nss@...
>> <mailto:nss@...>> wrote:
>>
>> I feel it's far too small even to lift a child this small.
>>
>> Plus, ummm, why doesn't anyone talk to the parents yet to
>> see where the kid is?
>>
>>
>> Greg Williams wrote:
>>>
>>> http://www.9news.com/news/article.aspx?storyid=125161&catid=339
>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339>
>>> (pics of the balloon on web site)
>>>
>>> [I'm worried for the kid, but at the same time, envious...]
>>>
>>> LARIMER COUNTY - Officials in Larimer County are actively
>>> searching for a child who literally floated away from his
>>> family's home on an experimental aircraft.
>>>
>>> According to the Larimer County Sheriff
>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#>'s
>>> Department, the 6-year-old boy's family had been building an
>>> experimental aircraft which had a large helium balloon
>>> attached at their home on Fossil Ridge Road in Fort Collins.
>>>
>>> On Thursday morning, according to the family and officials,
>>> the boy got onto the aircraft and detached the rope holding
>>> it in place.

>>>
>>> The aircraft is described by the sheriff's office as a
>>> dome-shaped, 20 foot, 5 foot aircraft covered with foil.
>>>
>>> Viewer Lisa Eklund sent photos
>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> of
>>> an aircraft in the air near her home on Saturn Drive, also in
>>> Fort Collins.
>>>
>>> The Federal Aviation Administration
>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> is
>>> working to track the aircraft on its radar tower and has
>>> notified the Denver International Airport.
>>>
>>> Shortly after noon, the Weld County Sheriff's Office says the
>>> boy was lseen two miles south of Evans, near County Road 46
>>> and Highway 85. Sky9 is now helping track the aircraft.
>>>
>>> 9NEWS and Sky9 are following this story and will continue to
>>> provide updates as they are available.
>>>
>>> Greg Williams
>>> gregwilliams@... <mailto:gregwilliams@...>
>>> k4hsm@... <mailto:k4hsm@...>
>>>
>>>
>>>
>>> ---
>>>
>>>
>>> No virus found in this incoming message.
>>> Checked by AVG - www.avg.com <http://www.avg.com>
>>> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
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>> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6141. Re: [GPSL] balloon mystery deepens

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 05:42:52 UTC
From: Mike Manes
Topic: 6125 Message: 6141

Hi Joe,

I didn't learn of it until someone called me on the local repeater, and
by then, the 9 News helo was in visual pursuit. So no, I never gave a
thought to trying to tweak the predict program for that weird config.

73 de Mike W5VSI

Joe wrote:
>
>
> This is getting weird.
>
> Ok
> I'm making assumptions here say he did have it fully inflated so it
> looked right. Nice flying saucer shape. and that it did have enough lift,
> assume it did get airborne, with the boy (hope not) but say it did, and
> the loweer part of the gondola did fall off, Like others have said it
> then would have taken off like a rocket, BUT, having such an excess
> amount of lift of course it would pressure that envlope quite quickly
> since it was probably pretty full already on the ground, not too much
> altitude and i would think it would have tore open a seam, which it
> probably did because of the one side that was not inflated anymore
> because that area had the tear.
>
> Now a question to the EOSS guys,
>
> have any of you tried to run a flight profile of this thing and
> possibly offer it to the authorities for the possible flight path it
> might have taken? i don't know if anyone in the search and rescue field
> would have programs for predicting flight paths like this or not.
>
> might be nice to just offer it?
>
> maynbe?
>
> Joe
>
> James Hannon wrote:
>>
>> I will bet the kid untied it and hid to avoid punishment for letting
>> it go.
>>
>>
>> Jim Hannon
>> http://www.fmtcs.com/web/jmhannon/

>> 42,11.90N,91,39.26W
>> WB0TXL
>>
>>
>>
>> -----Original Message-----
>> From: "Mark Conner" <mconner1@...>
>> Sent 10/15/2009 3:32:20 PM
>> To: "GPSL list" <GPSL@yahoogroups.com>, "EOSS membership reflector"
>> <EOSS@yahoogroups.com>
>> Subject: Re: [GPSL] balloon mystery deepens
>>
>> One other "duh" observation just occurred to me. If it were big
>> enough to get the boy off the ground and he fell out, the 40+ pounds
>> of free lift would have rocketed the balloon out of the troposphere at
>> a pretty good ascent rate - it wouldn't become neutrally buoyant at a
>> few thousand feet AGL.
>>
>> - Mark
>>
>> On Thu, Oct 15, 2009 at 15:24, Mark Conner <mconner1@...
>> <mailto:mconner1@...>> wrote:
>>
>> [Attachment(s)
>> <http://mail.google.com/mail/?ui=2&view=js&name=js&ver=W4l_wni_zd8.en.&am=%21iBuYvrfV6f
fpRdlgwfwyQqhwX4CxEK3LxwIcO7kO#12459df7f154f203_TopText>
>> from Mark Conner included below]
>>
>> Attached is a screen shot of the balloon at landing. The picture
>> is distorted as it's a video capture, but even so you can see
>> there's almost no way the balloon can be more than 6 ft top to
>> bottom and is 25 ft in diameter if one is generous. That puts an
>> upper bound of about 470 cubic feet, for 30 pounds of total lift.
>>
>> The boy never left the ground.
>>
>> 73 de Mark N9XTN
>>
>>
>> Attachment(s) from Mark Conner
>>
>> 1 of 1 Photo(s)
>>
>> 2143004322.jpg
>> <http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
>> 2143004322.jpg
>> <http://groups.yahoo.com/group/GPSL/attachments/folder/1111298038/item/1326740846/view>
>>
>>
>> --

>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
>>
>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6142. Re: [GPSL] 6-yr old in experimental balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 12:41:30 UTC
From: Joe
Topic: 6115 Message: 6142

Late last night some "Balloon Expert" they were talking to talked about
that balloon. And he said what someone could do with it, and stuff
like that and he had it rifgght too that it's too small to carry a child
aloft and he also said the same thing that if he was indeed in it
somehow it would never fly the way it was turing on it's side at times.

BUT! what I found amazing is that he said the balloon is a Kit you can
buy online.

I never seen anything like that on the web i wonder where and how much?

Joe

Mike Manes wrote:

>If the fill gas (and residual air) had completely filled the envelope,
>then it would have behaved like a super-pressure balloon and floated
>at an altitude where the weight of the displaced air equaled the total
>balloon + payload weight (Eureka!). But SP bags have got to be strong,
>like bull, to hold much pressure, so a seam may have opened up letting
>the gas vent, and that brought it back down.
>
>73 de Mike W5VSI
>
>Rodney Sparks wrote:
>
>
>>So, did you guys see the black and yellow "static sensitive" stickers
>>around the periphery of the balloon? Based on that, I'd say it might
>>have been filled with hydrogen, not helium. That's only about 8% more
>>buoyancy though.
>>
>>I figure that if that balloon had 40 pounds of ballast on it and then
>>lost that ballast, it wouldn't have stopped ascending at ~8k ft like
>>they said it did, unless that drooping side of the balloon had a tear in
>>it and most of the gas had escaped along the way somewhere.
>>
>>-Rodney
>>
>>
>>On Thu, Oct 15, 2009 at 1:06 PM, Joe <nss@... <mailto:nss@...>>
>>wrote:
>>
>> The next question is now,,
>>
>> I know of a few groups (Mine included) that have had rouge

>> flights, but they really didn't cost anyone anything other than
>> time reporting where it is for a long time.
>>
>> Now this though,
>>
>> we got Black hawks, other copters, we have ground earch and rescue
>> people. etc. what a simple Medivac flight costs, this will have
>> to cost maybe 100 grand on costs to the state governments/ are they
>> going to be liable for this? especially no one knew or knows where
>> the kid is?
>>
>> Worst case I can see is, if it was possible to take off, sadly he
>> fell out sometime during the flightand thats why no one is saying
>> where he is, because they simply don't know where the body is.
>>
>> BUT, still i think it was too small, and as soon as i seen the
>> footage on TV while it was flying I was like 99% sure there was
>> nothing in the "Gondola" for several times that thing almost turned
>> up side down while it was flying.
>>
>> If it had a 40 pound ballast weight in it, there would be
>> absolutely no way the thing could almost flip up side down like that.
>>
>> Joe
>>
>>
>> Rodney Sparks wrote:
>>
>>
>>> I think the kid and his brother just played the prank of a
>>> lifetime on their parents AND the rest of the world. The kid's
>>> probably hiding somewhere.
>>>
>>> -Rodney
>>>
>>>
>>> On Thu, Oct 15, 2009 at 12:48 PM, Joe <nss@...
>>> <mailto:nss@...>> wrote:
>>>
>>> I feel it's far too small even to lift a child this small.
>>>
>>> Plus, ummm, why doesn't anyone talk to the parents yet to
>>> see where the kid is?
>>>
>>>
>>> Greg Williams wrote:
>>>
>>>
>>>> http://www.9news.com/news/article.aspx?storyid=125161&catid=339
>>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339>

>>>> (pics of the balloon on web site)
>>>>
>>>> [I'm worried for the kid, but at the same time, envious...]
>>>>
>>>> LARIMER COUNTY - Officials in Larimer County are actively
>>>> searching for a child who literally floated away from his
>>>> family's home on an experimental aircraft.
>>>>
>>>> According to the Larimer County Sheriff
>>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#>'s
>>>> Department, the 6-year-old boy's family had been building an
>>>> experimental aircraft which had a large helium balloon
>>>> attached at their home on Fossil Ridge Road in Fort Collins.
>>>>
>>>> On Thursday morning, according to the family and officials,
>>>> the boy got onto the aircraft and detached the rope holding
>>>> it in place.
>>>>
>>>> The aircraft is described by the sheriff's office as a
>>>> dome-shaped, 20 foot, 5 foot aircraft covered with foil.
>>>>
>>>> Viewer Lisa Eklund sent photos
>>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> of
>>>> an aircraft in the air near her home on Saturn Drive, also in
>>>> Fort Collins.
>>>>
>>>> The Federal Aviation Administration
>>>> <http://www.9news.com/news/article.aspx?storyid=125161&catid=339#> is
>>>> working to track the aircraft on its radar tower and has
>>>> notified the Denver International Airport.
>>>>
>>>> Shortly after noon, the Weld County Sheriff's Office says the
>>>> boy was lseen two miles south of Evans, near County Road 46
>>>> and Highway 85. Sky9 is now helping track the aircraft.
>>>>
>>>> 9NEWS and Sky9 are following this story and will continue to
>>>> provide updates as they are available.
>>>>
>>>> Greg Williams
>>>> gregwilliams@... <mailto:gregwilliams@...>
>>>> k4hsm@... <mailto:k4hsm@...>
>>>>
>>>>
>>>>
>>>> ---
>>>>
>>>>
>>>> No virus found in this incoming message.
>>>> Checked by AVG - www.avg.com <http://www.avg.com>
>>>> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00

>>>>
>>>>
>>>>
>>>>
>>> ---
>>>
>>>
>>> No virus found in this incoming message.
>>> Checked by AVG - www.avg.com <http://www.avg.com>
>>> Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00
>>>
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6143. Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 13:05:25 UTC
From: L. Paul Verhage
Topic: 6143 Message: 6143

Here's an article that indicates the whole thing may have been a hoax.

http://thelede.blogs.nytimes.com/2009/10/16/interview-sets-off-skeptics-of-balloon-drama/?hp

What I don't care for is the negative light it could cast on legitimate amateur ballooning.

--
Onwards and Upwards,
Paul

6144. Re: [GPSL] Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 14:24:15 UTC
From: Rodney Sparks
Topic: 6143 Message: 6144

The media being how it is, trying to wring every story they can out of every newsworthy incident, I wouldn't be surprised if a "How was this hoax allowed to happen?" report popped up in the next few days, possibly addressing the current laws and how the "government should do something so this can't happen again... What if next time the kid is on the balloon???" I think you're right about the negative light, Paul. The fact that balloons such as this one are so foreign to most people will likely serve to take some of the focus off of the simple fact that these people committed a hoax of this magnitude, regardless of the fact that a balloon is involved... If they had shoved a car off of a cliff and then claimed the kid was in the car, the focus would be 100% on the hoax and not the means.

-Rodney

On Fri, Oct 16, 2009 at 6:05 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Here's an article that indicates the whole thing may have been a hoax.
>
>
> http://thelede.blogs.nytimes.com/2009/10/16/interview-sets-off-skeptics-of-balloon-drama/?hp
>
> What I don't care for is the negative light it could cast on legitimate
> amateur ballooning.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6145. volume of 6 yo boy's balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 16:59:19 UTC
From: K. Mark Caviezel
Topic: 6145 Message: 6145

Guys:
I'm glad we re-calculated the volume. yes, lifting a 6 yo boy is within the realm of possibility for this size balloon. And that would require 4-5 cylinders of helium. But it sure is amazing how half the world got punked on this.
Maybe this family of storm chasers will get involved in ARHAB in the Denver area ?

best

- Mark ng0x

6146. Update on Taylor U launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 16:54:54 UTC
From: Jeff Dailey
Topic: 6146 Message: 6146

Taylor will be launching two balloons on Saturday at 11:30AM local time.
APRS will be KB9ZNZ-1 and KB9ZNZ-11 on 144.39.
Launch location is on the loop at Taylor University.
12 Primary payloads from the Astronomy and Chemistry groups.
105 Analog inputs and 23 Digital inputs.
Wide range of Instruments: Cooled UV, Solar cells, Three axis accelerometers, Turbulence, Wind shear, Temperature, Humidity, Pressure, Video.

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

6147. Re: [GPSL] Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 20:40:25 UTC
From: Pete Lilja
Topic: 6143 Message: 6147

I also fly high powered rockets. Each time there is some news story that sheds the hobby in a negative light there are some of the same fears. Nothing ever comes of it, though. While these negative story fears are common I can say with a lot of confidence that nothing will change regarding regs. for balloons (a rather benign hobby, actually).

What these events can do is afford an opportunity for those involved in HABing or other types of ballooning to make some positive news in the local media. Right now is the time to get interest stories 'out there' regarding HABing. Who knows how many people have had their interest piqued by what they saw on TV yesterday in Colorado? Maybe some new HABists were born of that coverage...

Pete
KCØGPB

----- Original Message -----
From: Rodney Sparks
To: GPSL@yahoogroups.com
Sent: Friday, October 16, 2009 9:24 AM
Subject: Re: [GPSL] Balloon Hoax??

The media being how it is, trying to wring every story they can out of every newsworthy incident, I wouldn't be surprised if a "How was this hoax allowed to happen?" report popped up in the next few days, possibly addressing the current laws and how the "government should do something so this can't happen again... What if next time the kid is on the balloon???" I think you're right about the negative light, Paul. The fact that balloons such as this one are so foreign to most people will likely serve to take some of the focus off of the simple fact that these people committed a hoax of this magnitude, regardless of the fact that a balloon is involved... If they had shoved a car off of a cliff and then claimed the kid was in the car, the focus would be 100% on the hoax and not the means.

-Rodney

On Fri, Oct 16, 2009 at 6:05 AM, L. Paul Verhage <nearsys@gmail.com> wrote:

Here's an article that indicates the whole thing may have been a hoax.

http://thelede.blogs.nytimes.com/2009/10/16/interview-sets-off-skeptics-of-balloon-drama/?hp

What I don't care for is the negative light it could cast on legitimate amateur ballooning.

--
Onwards and Upwards,
Paul

6148. Re: [GPSL] Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 21:42:30 UTC
From: wb8elk@aol.com
Topic: 6143 Message: 6148

If this is a publicity stunt, they will benefit from the well-known observation that no matter whether it's negative or positive publicity...in the end, people will remember their name and will generally forget whether it was negative or positive.....so in the end, they've received a lot of publicity which could lead to positive things.

Good point that now is the time to hit up your local news media for launch events.

It'd be interesting to see if a UFO style balloon like this is available as a kit as was mentioned in a previous post.

- Bill WB8ELK

-----Original Message-----
From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Fri, Oct 16, 2009 3:40 pm
Subject: Re: [GPSL] Balloon Hoax??

I also fly high powered rockets. Each time there is some news story that sheds the hobby in a negative light there are some of the same fears. Nothing ever comes of it, though. While these negative story fears are common I can say with a lot of confidence that nothing will change regarding regs. for balloons (a rather benign hobby, actually).

What these events can do is afford an opportunity for those involved in HABing or other types of ballooning to make some positive news in the local media. Right now is the time to get interest stories 'out there' regarding HABing. Who knows how many people have had their interest piqued by what they saw on TV yesterday in Colorado? Maybe some new HABists were born of that coverage...

Pete

KCØGPB

----- Original Message -----

From: Rodney Sparks

To: GPSL@yahoogroups.com

Sent: Friday, October 16, 2009 9:24 AM

Subject: Re: [GPSL] Balloon Hoax??

The media being how it is, trying to wring every story they can out of every newsworthy incident, I wouldn't be surprised if a "How was this hoax allowed to happen?" report popped up in the next few days, possibly addressing the current laws and how the "government should do something so this can't happen again... What if next time the kid is on the balloon???" I think you're right about the negative light, Paul. The fact that balloons

such as this one are so foreign to most people will likely serve to take some of the focus off of the simple fact that these people committed a hoax of this magnitude, regardless of the fact that a balloon is involved... If they had shoved a car off of a cliff and then claimed the kid was in the car, the focus would be 100% on the hoax and not the means.

-Rodney

On Fri, Oct 16, 2009 at 6:05 AM, L. Paul Verhage <nearsys@gmail.com> wrote:

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What I don't care for is the negative light it could cast on legitimate amateur ballooning.

--
Onwards and Upwards,
Paul

6149. Re: [GPSL] Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-16 22:41:02 UTC
From: Pete Lilja
Topic: 6143 Message: 6149

Here's my take on what happened after watching the news and some extensive footage and coverage of yesterday's events.

Dad was in their backyard messing with his now filled balloon. It was to be tethered for this flight while one of the kids was videotaping. Dad lets go of the balloon and mom doesn't have a hold of the tether so balloon floats away. Dad freaks out and stomps around the backyard (this is on video shown on MSNBC a few minutes ago). Now I'm supposing what's next but after a few minutes he calls the FAA hoping they can track it so he can find it. That doesn't work so he calls the TV station and asks of their helicopter can help him - to get their interest he mentions that one of the older kids said the youngest son was onboard the balloon and is danger. The TV station jumps on that and now it's on. Dad realizes he'd better call 911 which he does (MSNBC said dad made those 3 calls in that order within 20 minutes of losing the balloon).

Dad was upset his balloon disappeared and dreamed up this scheme to get it back. Obviously he didn't put a lot of thought in it and things snowballed rapidly and negatively. Dad will end up being charged with making a false report at some point and this will cost him more money than the balloon ever did. Restitution could be very expensive!

I'd heard a report last night the young kid hiding in the garage attic had snacks and drinks with him. Whenever I got in trouble and ran as a kid I never thought to take food. I think the kid was told to hide there when this thing blew up so rapidly.

I don't know if I'd call this a hoax as such but a desperate attempt to recover the lost balloon which was really stupid and went way beyond what dad thought it would.

The family was interviewed on both the Today Show and Good Morning America today. The youngster vomited on BOTH shows! He seemed a little stressed to me.

Pete
KCØGPB

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Friday, October 16, 2009 4:42 PM
Subject: Re: [GPSL] Balloon Hoax??

If this is a publicity stunt, they will benefit from the well-known observation that no matter whether it's negative or positive publicity...in the end, people will remember their name and will generally forget whether it was negative or positive.....so in the end, they've received a lot of publicity which could lead to positive things.

Good point that now is the time to hit up your local news media for launch events.

It'd be interesting to see if a UFO style balloon like this is available as a kit as was mentioned in a previous post.

- Bill WB8ELK

-----Original Message-----
From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Fri, Oct 16, 2009 3:40 pm
Subject: Re: [GPSL] Balloon Hoax??

I also fly high powered rockets. Each time there is some news story that sheds the hobby in a negative light there are some of the same fears. Nothing ever comes of it, though. While these negative story fears are common I can say with a lot of confidence that nothing will change regarding regs. for balloons (a rather benign hobby, actually).

What these events can do is afford an opportunity for those involved in HABing or other types of ballooning to make some positive news in the local media. Right now is the time to get interest stories 'out there' regarding HABing. Who knows how many people have had their interest piqued by what they saw on TV yesterday in Colorado? Maybe some new HABists were born of that coverage...

Pete
KCØGPB

----- Original Message -----
From: Rodney Sparks
To: GPSL@yahoogroups.com
Sent: Friday, October 16, 2009 9:24 AM
Subject: Re: [GPSL] Balloon Hoax??

The media being how it is, trying to wring every story they can out of every newsworthy incident, I wouldn't be surprised if a "How was this hoax allowed to happen?" report popped up in the next few days, possibly addressing the current laws and how the "government should do something so this can't happen again... What if next time the kid is on the balloon???" I think you're right about the negative light, Paul. The fact that balloons such as this one are so foreign to most people will likely serve to take some of the focus off of the simple fact that these people committed a hoax of this magnitude, regardless of the fact that a balloon is involved... If they had shoved a car off of a cliff and then claimed the kid was in the car, the focus would be 100% on the hoax and not the means.

-Rodney

On Fri, Oct 16, 2009 at 6:05 AM, L. Paul Verhage <nearsys@...> wrote:

Here's an article that indicates the whole thing may have been a hoax.

http://thelede.blogs.nytimes.com/2009/10/16/interview-sets-off-skeptics-of-balloon-drama/?hp

What I don't care for is the negative light it could cast on legitimate amateur ballooning.

--
Onwards and Upwards,
Paul

6150. Re: [GPSL] Balloon Hoax??

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-17 00:30:39 UTC
From: Mark Conner
Topic: 6143 Message: 6150

http://www.thedenverchannel.com/news/21317493/detail.html

According to this timeline, Dad mentioned the possibility of the boy being on board when he called the FAA and the media. However, we all know how often details like this are added or assumed in news coverage.

Dad would also have known if it were plausible for the balloon to lift his 37-lb son. You can tell from the video of the launch it's not pulling up with 37+ lbs of force. He's not a rocket scientist, but I imagine he's worked out that it takes 16 cu ft of helium to lift a pound and how many cubic feet he's put in for this test. There's no way he would have put almost 40 lbs of free lift in the balloon if he just expected to "winch" it out a little, or even release it and have it go a few thousand feet up. Or he's totally clueless. This is one of the few times I go against the dictum "never attribute to malice what can be adequately explained by stupidity".

For the record, the response by the police, FAA, and (to a point) the media was correct given the facts as each knew them at the time. I saw one story where the police did confer early on (first half hour?) with a professor who (correctly) worked out that given the dimensions it was plausible for a balloon of that volume to lift a boy.

Regarding publicity from this event spilling over to ARHAB; I'm not so sure it'd be a benefit. Depends on the reporter I think. They could easily take the tack of "oooh, look, our own local mad scientist - isn't he weird". Dunno if I'd run the risk.

73 de Mark N9XTN

On Fri, Oct 16, 2009 at 17:41, Pete Lilja <plilja@...> wrote:

> □
>
> Here's my take on what happened after watching the news and some extensive
> footage and coverage of yesterday's events.
>
> Dad was in their backyard messing with his now filled balloon. It was to
> be tethered for this flight while one of the kids was videotaping. Dad lets
> go of the balloon and mom doesn't have a hold of the tether so balloon
> floats away. Dad freaks out and stomps around the backyard (this is on
> video shown on MSNBC a few minutes ago). Now I'm supposing what's next but
> after a few minutes he calls the FAA hoping they can track it so he can find
> it. That doesn't work so he calls the TV station and asks of their
> helicopter can help him - to get their interest he mentions that one of the
> older kids said the youngest son was onboard the balloon and is danger. The
> TV station jumps on that and now it's on. Dad realizes he'd better call 911

> which he does (MSNBC said dad made those 3 calls in that order within 20
> minutes of losing the balloon).
>
> Dad was upset his balloon disappeared and dreamed up this scheme to get it
> back. Obviously he didn't put a lot of thought in it and things snowballed
> rapidly and negatively. Dad will end up being charged with making a false
> report at some point and this will cost him more money than the balloon ever
> did. Restitution could be very expensive!
>
> I'd heard a report last night the young kid hiding in the garage attic had
> snacks and drinks with him. Whenever I got in trouble and ran as a kid I
> never thought to take food. I think the kid was told to hide there when
> this thing blew up so rapidly.
>
> I don't know if I'd call this a hoax as such but a desperate attempt to
> recover the lost balloon which was really stupid and went way beyond what
> dad thought it would.
>
> The family was interviewed on both the Today Show and Good Morning America
> today. The youngster vomited on BOTH shows! He seemed a little stressed to
> me.
>
> Pete
> KCØGPB
>

6151. SPOT☐ Satellite Personal Messenger

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-17 01:51:24 UTC
From: ke4fgw
Topic: 6151 Message: 6151

I just wanted to let the group know about the sale going on right now on the SPOT☐ Satellite Personal Messenger like what Bill Brown used during the last GPSL.

Purchase a Spot Satellite Messenger from a participating Cabela's location or Cabelas.com and receive a FREE Spot Messenger (a $149.99 value) or up to $75 by mail-in rebate based on additional purchase of service plan.
Offer good from 09/01/2009 to 12/31/2009.

http://tinyurl.com/yjy6rrn

6152. Re: [GPSL] SPOT™ Satellite Personal Messenger

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-17 08:40:53 UTC
From: L. Paul Verhage
Topic: 6151 Message: 6152

I've heard some mixed reviews about Spot. Some people love it and others have said it misses too many of the 10 minutes upates. I'm curious to hear other experiences. I'd like to fly one as a backup tracker and write an article on it. But if it misses too many reports and costs $99 for the recever and $99 per yar for the basic service......

Paul

On Fri, Oct 16, 2009 at 8:51 PM, ke4fgw <yahoogroups@...> wrote:

> I just wanted to let the group know about the sale going on right now on
> the SPOT™ Satellite Personal Messenger like what Bill Brown used during the
> last GPSL.
>
> Purchase a Spot Satellite Messenger from a participating Cabela's location
> or Cabelas.com and receive a FREE Spot Messenger (a $149.99 value) or up to
> $75 by mail-in rebate based on additional purchase of service plan.
> Offer good from 09/01/2009 to 12/31/2009.
>
> http://tinyurl.com/yjy6rrn
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6153. SPOT review

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-17 16:39:06 UTC
From: K. Mark Caviezel
Topic: 6153 Message: 6153

Love it!
There are some purists that will decry the non-hamness of it. That is indeed a characteristic of this commercially available hardware and service. But I am really impressed with the performance of the SPOT. I had my SPOT in the glove box of my pickup truck during a drive from Oklahoma to DC and had >95% position report success. I am truly impressed with the power stinginess of the unit: 2+ weeks demonstrated function with two AA batteries. Unlike an APRS beacon which needs line of site to a digi or your own antenna, the SPOT uplinks via the Globalstar satellite system.
Drawbacks:
a). $100/year subscription is a nag if you use it infrequently.
b). position reports are lat/long only. No altitude, course, or speed info.
c). minimalistic display/user interface leaves a bit to be desired.
d). Does not report over 60k feet.
e). The 'SPOT Tracking' mode is an extra $50 a year and only allows 24 hours of tracking before reset is needed. The long endurance and trans-Atlantic ARHAB sub-niche will need a hack to do some button pushing at T+24 hours.

Advantages:
a). Lightweight, < 8 oz with batteries.
b). Excellent performance.
c). Cheap.
d). Excellent quality case- waterproof- and the internal patch antenna is not prone to break or snap off as we often see with 2m ham antennas.
e). Good view factor to the satellites, even if your payload lands in a ditch.

best regards,

- Mark ng0x

6154. Balloon Boy Story

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-18 19:43:56 UTC
From: L. Paul Verhage
Topic: 6154 Message: 6154

I wrote a reply to the story out of Fort Collins this week (
nearsys.blogspot.com). Forest Mims brought my attention to a story on
Gawker, it doesn't paint a pretty picture of Heene
http://gawker.com/5383858/exclusive-i-helped-richard-heene-plan-a-balloon-hoax?skyline=true&s=x.

--
Onwards and Upwards,
Paul

6155. [Fwd: [Ballooning] Pressure sensor]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-29 19:58:28 UTC
From: Mike Manes
Topic: 6155 Message: 6155

-------- Original Message --------
Subject: [Ballooning] Pressure sensor
Date: Thu, 29 Oct 2009 11:52:55 -0600
From: Ron Durston <dursr@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com <Ballooning@yahoogroups.com>

I am looking for a pressure sensor to use on a payload. Ideas anyone?

Ron Durston

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6156. Re: [GPSL] [Fwd: [Ballooning] Pressure sensor]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-29 19:27:50 UTC
From: L. Paul Verhage
Topic: 6155 Message: 6156

I have pressure sensors for the weather station I sell. Would a weather station work for you?

If not, I can sell individual sensors, but have to charge more since I'll have a left over PCB I can't sell.

Paul

On Thu, Oct 29, 2009 at 2:58 PM, Mike Manes <mrmanes@...> wrote:

>
>
> -------- Original Message --------
> Subject: [Ballooning] Pressure sensor
> Date: Thu, 29 Oct 2009 11:52:55 -0600
> From: Ron Durston <dursr@...>
> Reply-To: Ballooning@yahoogroups.com
> To: Ballooning@yahoogroups.com <Ballooning@yahoogroups.com>
>
> I am looking for a pressure sensor to use on a payload. Ideas anyone?
>
> Ron Durston
>
>
>
>
>
> ------------------------------------
>
> To start sending messages to members of this group,
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>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>

> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

6157. Re: [GPSL] [Fwd: [Ballooning] Pressure sensor]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-29 21:49:31 UTC
From: mw@omsrc.com
Topic: 6155 Message: 6157

Hello Ron & Group,

For sensing differential envelope pressure the 841-MPXV7002GP from Mouser will do a good job for you. We used the less-sensitive version on the GPSL 2009 flight and should have flown this one. Your differential is between nozzle pressure and ambient (outside air).

For sensing atmospheric pressure from launch to the vacuum of near space :) the 841-MPXAZ6115APT1 will likely meet your needs by capping off the input port and using the differential between the input port and ambient as the value at launch to the increasing pressure of that port at high altitude. In other words, 0 pounds (ambient)=ground level, and +14.7 pounds would equal high altitude - like 368K feet, though you may have to convert to metric air in Canada. :) I have not tried this unit yet, but thought it would be a fun experiment.

Hope this helps,

--Michael
K5NOT

Quoting Mike Manes <mrmanes@...>:

>
>
> -------- Original Message --------
> Subject: [Ballooning] Pressure sensor
> Date: Thu, 29 Oct 2009 11:52:55 -0600
> From: Ron Durston <dursr@...>
> Reply-To: Ballooning@yahoogroups.com
> To: Ballooning@yahoogroups.com <Ballooning@yahoogroups.com>
>
> I am looking for a pressure sensor to use on a payload. Ideas anyone?
>
> Ron Durston
>
>
>
>
> ------------------------------------
>
> To start sending messages to members of this group,
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>
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> If you do not wish to belong to Ballooning, you may
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> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
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>
>
>
>
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

6158. Re: [Ballooning] Re: Pressure sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-30 16:22:36 UTC
From: BASE
Topic: 6158 Message: 6158

The Honeywell ASDX015A24R sensor is a 15 psi absolute sensor. To the best of my knowledge, Honeywell does not manufacture a 5 psi absolute sensor in the ASDX series.

If you did use a 5 psi absolute sensor, you are correct that it would be maximized until you reached about 28 kft.

Howard

--- On Fri, 10/30/09, jerrygable <jerrygable@...> wrote:

From: jerrygable <jerrygable@...>
Subject: [Ballooning] Re: Pressure sensor
To: Ballooning@yahoogroups.com
Date: Friday, October 30, 2009, 11:11 AM

At sea level it will measure 14.7 psi absolute. It will drop from there until it reaches 0 in a vacuum.

--- In Ballooning@yahoogro ups.com, Ron Durston <dursr@...> wrote:

>

> This is an absolute sensor, and I can see how this will work at altitude. I don't understand how this works at the surface. It seems to me that you wouldn't see a difference until the higher altitudes when the pressure drops below 5psi. Is this correct?

>

> Ron

> VE5AAX

>

> ----- Original Message -----

> From: Jack Crabtree <jscra@...>

> Date: Friday, October 30, 2009 7:03 am

> Subject: Re: [Ballooning] Pressure sensor

>

> > I agree with Bill, the Honeywell ASDX015A24R works pretty well all

> > the way up to burst altitude. We have been using this in the Embry-

> > Riddle payloads.

> > Jack, w7jlc

> > ANSR/ERAU

> >

> >

> > From: wb8elk@...

> > Sent: Thursday, October 29, 2009 1:41 PM

> > To: Ballooning@yahoogro ups.com

> > Subject: Re: [Ballooning] Pressure sensor

> >

> >

> >

> > I recommend the Honeywell ASDX015A24R. I've flown this many times

> > and it will work up to 100k feet. It's a 0.4-4.5 volt output so no

> > amplification needed.

> >

> > I usually get them from Digikey (480-1915-ND) but they are out of

> > stock....Mouser carries them and do have them in stock: 785-

> > ASDX015A24R.

> > - Bill WB8ELK

> >

> >

> >

> >

> > -----Original Message-----

> > From: Ed Moore <eam52@...>

> > To: Ballooning@yahoogro ups.com

> > Sent: Thu, Oct 29, 2009 2:01 pm

> > Subject: Re: [Ballooning] Pressure sensor

> >

> >

> >

> > Hi Ron,

> >

> > We've used an SCP1000 (available from Sparkfun) before. Whilst it

> > only

> > claims to be rated down to 30kPa, it seemed to give out pretty

> > plausible data all the way up, when compared to GPS alt.

> >

> > Regards,

> >

> > Ed Moore

> > CU Spaceflight

> > www.cuspaceflight. co.uk

> >

> > On 29 Oct 2009, at 17:52, Ron Durston wrote:

> >

> > > I am looking for a pressure sensor to use on a payload. Ideas

> > anyone?>

> > > Ron Durston

> > >

> > >

> >

> >

> >

> >

> >

>

6159. Limb Sounding

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-31 16:21:01 UTC
From: L. Paul Verhage
Topic: 6159 Message: 6159
Attachments: 2 described; binary payloads are missing from this source WARC

I'm trying an experiment in limb sounding from near space. This first iteration has acquainted me to some of the problems involved, but will also help me develop solutions. I'm attaching two files, one is an image of the horizon as strips from every 10,000 feet. The second is a chart based on data derived from sampling the colors of the images at 0.5 inch points above the horizon.

The first problem to solve is verifying the camera is pointed the same direction everytime. I've developed a sun sensor that I'll fly on future missions so that the flight computer will only record images when the sun is located in the opposite quadrant. The second part of the solution is to fly a sun compass. The shadow it creates in the images will further refine the sun's position and let me weed out more pictures. The flight computer will be programmed to snap several pictures every 5,000 feet when the sun is located in the proper quadrant. This should give me a large selection of images to choose among.

I need to calibrate angles and fields of view with my camera. Right now I can measure the same elevation above the horizon, based on pixel hieght. I need to convert this into angles so the results are more meaningful.

Third, I'll rotate the camera 90 degrees so more of the image is above the horizon and I can get higher elevation data.

Fourth, I need to understand how colors are converted into values inside an image. I'm assuming things are nearly linear, so I take the values for RED, GREEN, and BLUE (in 8-bit resolution their maximum values are 255), add them together, and then divide each color by the sum of all three colors. The computed value is then divided by 765 (the sum of 255 + 255 + 255), or the maximum value the colors are allowed to have. Perhaps this arithmetic average is not as good as a geometric average. If the colors are considered orthogonal to each other, then it would seem the geometric mean would be more appropriate.

This is what I like about near space exploration. Everytime you look into an experiment, it opens a can of worms of problems to solve. This activity certainly isn't a closed-end experiment like high school chemistry class.

--
Onwards and Upwards,
Paul

6160. Re: [GPSL] Limb Sounding [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2009-10-31 17:22:55 UTC
From: Mark Conner
Topic: 6159 Message: 6160

One issue to keep in mind is the exposure compensation the camera performs to adjust the "raw" camera sensor values to RGB. I'm not too familiar with the transformations involved, but a bad choice by the camera could cause misleading values in the RGB result.

It's possible using images saved in RAW format might yield better results, but I'd have to explore that some more. The values might be 12 to 16 bits in depth for each channel. I know the Canon A560 will save in RAW format (at a considerable penalty in file size increase). Picasa now offers (limited) RAW file manipulation. If you know the exposure conditions (aperture and shutter) you may be able to back up from a RAW value to some absolute brightness number in each channel.

73 de Mark N9XTN
On Sat, Oct 31, 2009 at 11:21, L. Paul Verhage <nearsys@...> wrote:

> [Attachment(s)<http://mail.google.com/mail/?ui=2&view=js&name=js&ver=nxuHLIqdUtA.en.&am=!CJUZrzRQt-K5Bd7y2fc6Tm-nJB9kbPqDgwUc1SBku3Ja#124ab67684e4b131_TopText>from L. Paul Verhage included below]
>
> I'm trying an experiment in limb sounding from near space. This first
> iteration has acquainted me to some of the problems involved, but will also
> help me develop solutions. I'm attaching two files, one is an image of the
> horizon as strips from every 10,000 feet. The second is a chart based on
> data derived from sampling the colors of the images at 0.5 inch points above
> the horizon.
>
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> direction everytime. I've developed a sun sensor that I'll fly on future
> missions so that the flight computer will only record images when the sun is
> located in the opposite quadrant. The second part of the solution is to fly
> a sun compass. The shadow it creates in the images will further refine the
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> images to choose among.
>
> I need to calibrate angles and fields of view with my camera. Right now I
> can measure the same elevation above the horizon, based on pixel hieght. I
> need to convert this into angles so the results are more meaningful.
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> Third, I'll rotate the camera 90 degrees so more of the image is above the
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>
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> image. I'm assuming things are nearly linear, so I take the values for RED,

> GREEN, and BLUE (in 8-bit resolution their maximum values are 255), add them
> together, and then divide each color by the sum of all three colors. The
> computed value is then divided by 765 (the sum of 255 + 255 + 255), or the
> maximum value the colors are allowed to have. Perhaps this arithmetic
> average is not as good as a geometric average. If the colors are considered
> orthogonal to each other, then it would seem the geometric mean would be
> more appropriate.
>
> This is what I like about near space exploration. Everytime you look into
> an experiment, it opens a can of worms of problems to solve. This activity
> certainly isn't a closed-end experiment like high school chemistry class.
>
> --
> Onwards and Upwards,
> Paul
>
> Attachment(s) from L. Paul Verhage
>
> 2 of 2 Photo(s)
> [image: The Near Space Horizon.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folde
r/8940500/item/859139933/view>
> The Near Space Horizon.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/8940500
/item/859139933/view>
> [image: Sky Darkness.JPG]<http://groups.yahoo.com/group/GPSL/attachments/folder/8940500/
item/641456509/view>
> Sky Darkness.JPG<http://groups.yahoo.com/group/GPSL/attachments/folder/8940500/item/6414
56509/view>
>
>
>

6161. Re: [GPSL] Limb Sounding

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-01 01:26:40 UTC
From: L. Paul Verhage
Topic: 6159 Message: 6161

I'll look into RAW format. That may be tghe way to go. I have a 2 GB SD
card, so I still should be able to store a lot of photos.

Paul

On Sat, Oct 31, 2009 at 12:22 PM, Mark Conner <mconner1@...> wrote:

>
>
> One issue to keep in mind is the exposure compensation the camera performs
> to adjust the "raw" camera sensor values to RGB. I'm not too familiar with
> the transformations involved, but a bad choice by the camera could cause
> misleading values in the RGB result.
>
> It's possible using images saved in RAW format might yield better results,
> but I'd have to explore that some more. The values might be 12 to 16 bits
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> (at a considerable penalty in file size increase). Picasa now offers
> (limited) RAW file manipulation. If you know the exposure
> conditions (aperture and shutter) you may be able to back up from a RAW
> value to some absolute brightness number in each channel.
>
> 73 de Mark N9XTN
> On Sat, Oct 31, 2009 at 11:21, L. Paul Verhage <nearsys@...> wrote:
>
>> [Attachment(s)<http://mail.google.com/mail/?ui=2&view=js&name=js&ver=nxuHLIqdUtA.en.&am
=!CJUZrzRQt-K5Bd7y2fc6Tm-nJB9kbPqDgwUc1SBku3Ja#124ab67684e4b131_TopText>from L. Paul
Verhage included below]
>>
>> I'm trying an experiment in limb sounding from near space. This first
>> iteration has acquainted me to some of the problems involved, but will also
>> help me develop solutions. I'm attaching two files, one is an image of the
>> horizon as strips from every 10,000 feet. The second is a chart based on
>> data derived from sampling the colors of the images at 0.5 inch points above
>> the horizon.
>>
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>> direction everytime. I've developed a sun sensor that I'll fly on future
>> missions so that the flight computer will only record images when the sun is
>> located in the opposite quadrant. The second part of the solution is to fly
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>>

>> I need to calibrate angles and fields of view with my camera. Right now I
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>> Third, I'll rotate the camera 90 degrees so more of the image is above the
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>> an image. I'm assuming things are nearly linear, so I take the values for
>> RED, GREEN, and BLUE (in 8-bit resolution their maximum values are 255), add
>> them together, and then divide each color by the sum of all three colors.
>> The computed value is then divided by 765 (the sum of 255 + 255 + 255), or
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>> --
>> Onwards and Upwards,
>> Paul
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>> Attachment(s) from L. Paul Verhage
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>> 2 of 2 Photo(s)
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>> The Near Space Horizon.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/894050
0/item/859139933/view>
>> [image: Sky Darkness.JPG]<http://groups.yahoo.com/group/GPSL/attachments/folder/8940500
/item/641456509/view>
>> Sky Darkness.JPG<http://groups.yahoo.com/group/GPSL/attachments/folder/8940500/item/641
456509/view>
>>
>>
>
>
>

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Onwards and Upwards,
Paul

6162. DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-02 03:32:39 UTC
From: Mark Conner
Topic: 6162 Message: 6162

A rather interesting contest. First prize is $40,000.

73 de Mark N9XTN

http://networkchallenge.darpa.mil/

To mark the 40th anniversary of the Internet, DARPA
<http://www.darpa.mil/>has announced the DARPA Network Challenge, a
competition that will explore
the role the Internet and social networking plays in the timely
communication, wide area team-building and urgent mobilization required to
solve broad scope, time-critical problems.

The challenge is to be the first to submit the locations of ten moored, 8
foot, red weather balloons located at ten fixed locations in the continental
United States. Balloons will be in readily accessible locations and visible
from nearby roadways.

6163. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-02 19:43:03 UTC
From: wb8elk@aol.com
Topic: 6162 Message: 6163

Hi All....looks like we should all team up as a "social network" and win this thing!!!

My guess is that many of these will be located near military bases where many of us work....the trick is to tell them apart from car dealership balloons.

- Bill

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>; EOSS membership reflector <EOSS@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
Sent: Sun, Nov 1, 2009 9:32 pm
Subject: [GPSL] DARPA network challenge

A rather interesting contest. First prize is $40,000.

73 de Mark N9XTN

http://networkchallenge.darpa.mil/

To mark the 40th anniversary of the Internet, DARPA has announced the DARPA Network Challenge, a competition that will explore the role the Internet and social networking plays in the timely communication, wide area team-building and urgent mobilization required to solve broad scope, time-critical problems.

The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.

6164. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 01:02:37 UTC
From: Zack Clobes
Topic: 6162 Message: 6164

Count me in. What, split the winnings equally between everyone who presents
a Lat/Lon?

On Mon, Nov 2, 2009 at 1:43 PM, <wb8elk@...> wrote:

>
>
> Hi All....looks like we should all team up as a "social network" and win
> this thing!!!
>
> My guess is that many of these will be located near military bases where
> many of us work....the trick is to tell them apart from car dealership
> balloons.
>
> - Bill
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL list <GPSL@yahoogroups.com>; EOSS membership reflector <
> EOSS@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
> Sent: Sun, Nov 1, 2009 9:32 pm
> Subject: [GPSL] DARPA network challenge
>
>
> A rather interesting contest. First prize is $40,000.
>
> 73 de Mark N9XTN
>
>
> http://networkchallenge.darpa.mil/
>
> To mark the 40th anniversary of the Internet, DARPA<http://www.darpa.mil/>has announced
the DARPA Network Challenge, a competition that will explore
> the role the Internet and social networking plays in the timely
> communication, wide area team-building and urgent mobilization required to
> solve broad scope, time-critical problems.
> The challenge is to be the first to submit the locations of ten moored, 8
> foot, red weather balloons located at ten fixed locations in the continental
> United States. Balloons will be in readily accessible locations and visible
> from nearby roadways.
>
>
>
>

6165. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 03:37:14 UTC
From: Mike Manes
Topic: 6162 Message: 6165

Just make sure that you don't end up spotting a scam red pibal hung out
by giggling ARHAB tricksters - eheheheh :=}.
73 de Mike W5VSI

Zack Clobes wrote:
>
>
> Count me in. What, split the winnings equally between everyone who
> presents a Lat/Lon?
>
> On Mon, Nov 2, 2009 at 1:43 PM, <wb8elk@... <mailto:wb8elk@...>>
> wrote:
>
>
>
> Hi All....looks like we should all team up as a "social network" and
> win this thing!!!
>
> My guess is that many of these will be located near military bases
> where many of us work....the trick is to tell them apart from car
> dealership balloons.
>
> - Bill
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@... <mailto:mconner1@...>>
> To: GPSL list <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>;
> EOSS membership reflector <EOSS@yahoogroups.com
> <mailto:EOSS@yahoogroups.com>>; KNSP List <KNSP@yahoogroups.com
> <mailto:KNSP@yahoogroups.com>>
> Sent: Sun, Nov 1, 2009 9:32 pm
> Subject: [GPSL] DARPA network challenge
>
>
> A rather interesting contest. First prize is $40,000.
>
> 73 de Mark N9XTN
>
>
> http://networkchallenge.darpa.mil/
>
> To mark the 40th anniversary of the Internet, DARPA
> <http://www.darpa.mil/> has announced the DARPA Network Challenge, a
> competition that will explore the role the Internet and social

> networking plays in the timely communication, wide area
> team-building and urgent mobilization required to solve broad scope,
> time-critical problems.
> The challenge is to be the first to submit the locations of ten
> moored, 8 foot, red weather balloons located at ten fixed locations
> in the continental United States. Balloons will be in readily
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>
>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6166. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 10:02:49 UTC
From: wb8elk@aol.com
Topic: 6162 Message: 6166

Hi Zack...sounds good to me...I'll be on the lookout here in Huntsville...I would expect that's there a high probability that one will be here near the Redstone Arsenal.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL@yahoogroups.com
Sent: Mon, Nov 2, 2009 7:02 pm
Subject: Re: [GPSL] DARPA network challenge

Count me in. What, split the winnings equally between everyone who presents a Lat/Lon?

On Mon, Nov 2, 2009 at 1:43 PM, <wb8elk@...> wrote:

Hi All....looks like we should all team up as a "social network" and win this thing!!!

My guess is that many of these will be located near military bases where many of us work....the trick is to tell them apart from car dealership balloons.

- Bill

-----Original Message-----
From: Mark Conner <mconner1@gmail.com>
To: GPSL list <GPSL@yahoogroups.com>; EOSS membership reflector <EOSS@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
Sent: Sun, Nov 1, 2009 9:32 pm
Subject: [GPSL] DARPA network challenge

A rather interesting contest. First prize is $40,000.

73 de Mark N9XTN

http://networkchallenge.darpa.mil/

To mark the 40th anniversary of the Internet, DARPA has announced the DARPA Network Challenge, a competition that will explore the role the Internet and social networking plays in the timely communication, wide area team-building and urgent mobilization required to solve broad scope, time-critical problems.

The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.

Hi All....looks like we should all team up as a "social network" and win this thing!!!

My guess is that many of these will be located near military bases where many of us work....the trick is to tell them apart from car dealership balloons.

- Bill

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>; EOSS membership reflector <EOSS@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
Sent: Sun, Nov 1, 2009 9:32 pm
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The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.

6167. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 14:02:33 UTC
From: Keith Kaiser
Topic: 6162 Message: 6167

Deb and I will also be on the lookout here in the Kansas City area.

On Nov 3, 2009, at 4:02 AM, wb8elk@... wrote:

>
> Hi Zack...sounds good to me...I'll be on the lookout here in
> Huntsville...I would expect that's there a high probability that one
> will be here near the Redstone Arsenal.
>
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: GPSL@yahoogroups.com
> Sent: Mon, Nov 2, 2009 7:02 pm
> Subject: Re: [GPSL] DARPA network challenge
>
>
> Count me in. What, split the winnings equally between everyone who
> presents a Lat/Lon?
>
> On Mon, Nov 2, 2009 at 1:43 PM, <wb8elk@...> wrote:
>
> Hi All....looks like we should all team up as a "social network" and
> win this thing!!!
>
> My guess is that many of these will be located near military bases
> where many of us work....the trick is to tell them apart from car
> dealership balloons.
>
> - Bill
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL list <GPSL@yahoogroups.com>; EOSS membership reflector <EOSS@yahoogroups.com
> >; KNSP List <KNSP@yahoogroups.com>
> Sent: Sun, Nov 1, 2009 9:32 pm
> Subject: [GPSL] DARPA network challenge
>
>
> A rather interesting contest. First prize is $40,000.
>
> 73 de Mark N9XTN

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>
> http://networkchallenge.darpa.mil/
>
> To mark the 40th anniversary of the Internet, DARPA has announced
> the DARPA Network Challenge, a competition that will explore the
> role the Internet and social networking plays in the timely
> communication, wide area team-building and urgent mobilization
> required to solve broad scope, time-critical problems.
> The challenge is to be the first to submit the locations of ten
> moored, 8 foot, red weather balloons located at ten fixed locations
> in the continental United States. Balloons will be in readily
> accessible locations and visible from nearby roadways.
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73's
Keith Kaiser
wa0tjt@...

6168. Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 17:44:47 UTC
From: Mark Garrett
Topic: 6162 Message: 6168

I feel left out as there are no military bases around here-Sniff.

Mark Garrett, KA9SZX

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Mon, November 2, 2009 1:43:03 PM
Subject: Re: [GPSL] DARPA network challenge

Hi All....looks like we should all team up as a "social network" and win this thing!!!

My guess is that many of these will be located near military bases where many of us work....the trick is to tell them apart from car dealership balloons.

- Bill

-----Original Message-----
From: Mark Conner <mconner1@gmail. com>
To: GPSL list <GPSL@yahoogroups. com>; EOSS membership reflector <EOSS@yahoogroups. com>; KNSP List <KNSP@yahoogroups. com>
Sent: Sun, Nov 1, 2009 9:32 pm
Subject: [GPSL] DARPA network challenge

A rather interesting contest. First prize is $40,000.

73 de Mark N9XTN

http://networkchall enge.darpa. mil/

To mark the 40th anniversary of the Internet, DARPA has announced the DARPA Network Challenge, a competition that will explore the role the Internet and social networking plays in the timely communication, wide area team-building and urgent mobilization required to solve broad scope, time-critical problems.
The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.

6169. Re: Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 18:22:17 UTC
From: zclobes@gmail.com
Topic: 6162 Message: 6169

My thoughts are that we (ARHAB enthusiasts) probably won't happen to be next to all of the balloons. But that's not to say that you won't happen to know (or be on Facebook) with someone who is near it, and therefore can get/provide the Lat/Lons.

On Nov 3, 2009 11:44am, Mark Garrett <ka9szx@...> wrote:

> I feel left out as there are no military bases around here-Sniff.

> Mark Garrett, KA9SZX

> From: "wb8elk@..." wb8elk@...>
> To: GPSL@yahoogroups.com
> Sent: Mon, November 2, 2009 1:43:03 PM
> Subject: Re: [GPSL] DARPA network challenge

> Hi All....looks like we should all team up as a "social network" and win
> this thing!!!

> My guess is that many of these will be located near military bases where
> many of us work....the trick is to tell them apart from car dealership
> balloons.

> - Bill

> -----Original Message-----

> From: Mark Conner

> To: GPSL list ; EOSS membership reflector ; KNSP List

> Sent: Sun, Nov 1, 2009 9:32 pm

> Subject: [GPSL] DARPA network challenge

> A rather interesting contest. First prize is $40,000.

> 73 de Mark N9XTN

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> To mark the 40th anniversary of the Internet, DARPA has announced the
> DARPA Network Challenge, a competition that will explore the role the
> Internet and social networking plays in the timely communication, wide
> area team-building and urgent mobilization required to solve broad scope,
> time-critical problems.

> The challenge is to be the first to submit the locations of ten moored, 8
> foot, red weather balloons located at ten fixed locations in the

> continental United States. Balloons will be in readily accessible
> locations and visible from nearby roadways.

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6170. MIT balloon with 2m and 70cm to fly from Albany NY Nov 4th

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 23:01:57 UTC
From: wb8elk@aol.com
Topic: 6170 Message: 6170

I sent the MIT students a payload for their flight on Nov 4th.... about 10 milliwatts on both bands as follows:

144.36 FM - WB8ELK RTTY 45 baud (both modes vertical)
144.357 SSB - Hellscreiber (Feld-Hell mode)

433.95 AM - DominoEX16 (horizontal)

Launch time: 6:45 am EST November 4th

location: most likely from K2CBA QTH in Petersburg NY east of Albany NY:

Predicted landing zone: between Nashua NH and Haverhill, MA

Please send any reception reports to: wb8elk@...

- Bill WB8ELK

6171. Re: [GPSL] MIT balloon with 2m and 70cm to fly from Albany NY Nov 4th

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-03 23:10:57 UTC
From: Mark Conner
Topic: 6170 Message: 6171

Bill,

Are these the guys who launched the balloon that got covered by Wired, CNN, etc?

73 de Mark N9XTN

On Tue, Nov 3, 2009 at 17:01, <wb8elk@...> wrote:

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>
> I sent the MIT students a payload for their flight on Nov 4th.... about 10
> milliwatts on both bands as follows:
>
> 144.36 FM - WB8ELK RTTY 45 baud (both modes vertical)
> 144.357 SSB - Hellscreiber (Feld-Hell mode)
>
> 433.95 AM - DominoEX16 (horizontal)
>
> Launch time: 6:45 am EST November 4th
>
> location: most likely from K2CBA QTH in Petersburg NY east of Albany NY:
>
> Predicted landing zone: between Nashua NH and Haverhill, MA
>
> Please send any reception reports to: wb8elk@...
>
> - Bill WB8ELK
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6172. Re: Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-04 00:42:23 UTC
From: Jon Riley
Topic: 6162 Message: 6172

I think it would be really cool if we all could be apart of this with our network of fellow ballooners.Just think how it would be if 2010 GPLS could be the biggest one ever.Balloons and gas for everybody !!

--- On Tue, 11/3/09, zclobes@... <zclobes@...> wrote:

From: zclobes@... <zclobes@...>
Subject: Re: Re: [GPSL] DARPA network challenge
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Tuesday, November 3, 2009, 12:22 PM

My thoughts are that we (ARHAB enthusiasts) probably won't happen to be next to all of the balloons. But that's not to say that you won't happen to know (or be on Facebook) with someone who is near it, and therefore can get/provide the Lat/Lons.

On Nov 3, 2009 11:44am, Mark Garrett <ka9szx@yahoo. com> wrote:
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> I feel left out as there are no military bases around here-Sniff.
>
> Mark Garrett, KA9SZX
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>
> From: "wb8elk@..." wb8elk@...>
> To: GPSL@yahoogroups. com
> Sent: Mon, November 2, 2009 1:43:03 PM
> Subject: Re: [GPSL] DARPA network challenge
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> Hi All....looks like we should all team up as a "social network" and win this thing!!!
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> My guess is that many of these will be located near military bases where many of us work....the trick is to tell them apart from car dealership balloons.
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> - Bill
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> -----Original Message-----
>
> From: Mark Conner
>
> To: GPSL list ; EOSS membership reflector ; KNSP List
>
> Sent: Sun, Nov 1, 2009 9:32 pm
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> Subject: [GPSL] DARPA network challenge
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> A rather interesting contest. First prize is $40,000.

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> 73 de Mark N9XTN
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> http://networkchall enge.darpa. mil/
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> The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.
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6173. Re: Re: [GPSL] DARPA network challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-04 16:03:08 UTC
From: Mark Garrett
Topic: 6162 Message: 6173

That would be cool. I guess what is needed is a representative that represents GPSL and takes the reports from members to submit the locations and gain the prize on behalf of GPSL. Money to be used to host future GPSL events.

Mark Garrett, KA9SZX

From: Jon Riley <aj0nr@...>
To: GPSL@yahoogroups.com
Sent: Tue, November 3, 2009 6:42:23 PM
Subject: Re: Re: [GPSL] DARPA network challenge

I think it would be really cool if we all could be apart of this with our network of fellow ballooners.Just think how it would be if 2010 GPLS could be the biggest one ever.Balloons and gas for everybody !!

--- On Tue, 11/3/09, zclobes@gmail. com <zclobes@gmail. com> wrote:

>From: zclobes@gmail. com <zclobes@gmail. com>
>Subject: Re: Re: [GPSL] DARPA network challenge
>To: "Group GPSL" <GPSL@yahoogroups. com>
>Date: Tuesday, November 3, 2009, 12:22 PM
>
>
>
>My thoughts are that we (ARHAB enthusiasts) probably won't happen to be next to all of the balloons. But that's not to say that you won't happen to know (or be on Facebook) with someone who is near it, and therefore can get/provide the Lat/Lons.
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>On Nov 3, 2009 11:44am, Mark Garrett <ka9szx@yahoo. com> wrote:
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>> I feel left out as there are no military bases around here-Sniff.
>>
>> Mark Garrett, KA9SZX
>>
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>> From: "wb8elk@aol. com" wb8elk@...>
>> To: GPSL@yahoogroups. com
>> Sent: Mon, November 2, 2009 1:43:03 PM

>> Subject: Re: [GPSL] DARPA network challenge
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>> Hi All....looks like we should all team up as a "social network" and win this thing!!!
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>> - Bill
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>> -----Original Message-----
>>
>> From: Mark Conner
>>
>> To: GPSL list ; EOSS membership reflector ; KNSP List
>>
>> Sent: Sun, Nov 1, 2009 9:32 pm
>>
>> Subject: [GPSL] DARPA network challenge
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>> The challenge is to be the first to submit the locations of ten moored, 8 foot, red weather balloons located at ten fixed locations in the continental United States. Balloons will be in readily accessible locations and visible from nearby roadways.
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6174. DARPA issues balloon-hunting $40k ' Network Challenge' • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-05 04:35:30 UTC
From: Mike Manes
Topic: 6174 Message: 6174

More on DARPAs pibal hunt on 5 Dec from our pals in Olde Blighty:

http://www.theregister.co.uk/2009/10/30/darpa_network_challenge/

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6175. Re: [GPSL] DARPA issues balloon-hunting $40k 'Network Challenge' • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-05 15:21:08 UTC
From: mw@omsrc.com
Topic: 6174 Message: 6175

Headline news: "Balloon Boy strikes again as he spoils the DARPA experiment by seeding red balloons all over the US marked for his Dynamic Altitude Radio Position Announcer (DARPA) experiment." Balloon Boy was later identified as Al Gore who made the statement "But -I- invented the Internet!"

--Michael

Quoting Mike Manes <mrmanes@...>:

> More on DARPAs pibal hunt on 5 Dec from our pals in Olde Blighty:
>
> http://www.theregister.co.uk/2009/10/30/darpa_network_challenge/
>
> 73 de Mike W5VSI
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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6176. Launch on Saturday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-06 19:49:11 UTC
From: Jeff Dailey
Topic: 6176 Message: 6176

KB9ZNZ-2 will be launched on Saturday 11-07-2009 AM at University of San Diego CA.
Launch site TBD

APRS 144.39 KB9ZNZ-2

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...u

6177. Saturday Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-08 00:17:07 UTC
From: Jeff Dailey
Topic: 6177 Message: 6177

The launch with the University of San Diego CA. has a complete success and has been recovered.

APRS was KB9ZNZ-2

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6178. Fwd: NASA Research Balloon Student Payload Opportunity

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-08 02:40:48 UTC
From: Keith Kaiser
Topic: 6178 Message: 6178

Begin forwarded message:

> From: Stewart Todd Morgan <morgan_st@...>
> Date: November 7, 2009 8:35:58 PM CST
> To: wa0tjt@...
> Subject: NASA Research Balloon Student Payload Opportunity
>
> This might be worth mentioning on the ARHAB page or in the Yahoo
> groups:
>
> http://www.nasa.gov/home/hqnews/2009/nov/
> HQ_09-259_Balloon_flights.html
>
>
> Todd
> AL0I

73's
Keith Kaiser
wa0tjt@...

6179. University of Southern Indiana balloon experiment on CNN

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 17:01:19 UTC
From: gregwilliams@knology.net
Topic: 6179 Message: 6179

I don't know if this was an amateur payload, but a group from Univ. of Southern Indiana sent one up and published it on a CNN iReport that made the front page:

http://www.cnn.com/2009/TECH/11/09/balloon.irpt/index.html

Greg Williams
gregwilliams@...

6180. Re: [GPSL] University of Southern Indiana balloon experiment on CNN

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 19:52:46 UTC
From: BASE
Topic: 6179 Message: 6180

I'm not completely certain what qualifies as an amateur payload, since some of the participants are enrolled in an academic class taught by university professors. The USI flight was their third. The flight contains payloads designed and built by students. They did carry a APRS beacon operating on 144.39 MHz with callsign W9MOK and the flight path was on the internet. [You can still see the track on aprs.fi/?call=W9MOK]

They have a website: http://web.usi.edu/HAB/

USI is one of the schools that has begun an academic ballooning program after participating in a National Science Foundation workshop at Taylor University. Some of these programs actively share information via a social network at www.nearspacenetwork.com

Howard

--- On Mon, 11/9/09, gregwilliams@... <gregwilliams@...> wrote:

From: gregwilliams@... <gregwilliams@knology.net>
Subject: [GPSL] University of Southern Indiana balloon experiment on CNN
To: GPSL@yahoogroups.com
Cc: chat@...
Date: Monday, November 9, 2009, 12:01 PM

I don't know if this was an amateur payload, but a group from Univ. of Southern Indiana sent one up and published it on a CNN iReport that made the front page:

http://www.cnn. com/2009/ TECH/11/09/ balloon.irpt/ index.html

Greg Williams

gregwilliams@ knology.net

6181. Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 19:57:07 UTC
From: BASE
Topic: 6181 Message: 6181

Dear friends,

I have learned of a recent high altitude balloon flight (my son had a experiment on the flight) where during ascent, the payload string was inverted above the balloon and parachute above 80 kft. Has anyone else ever experienced this phenomena?

The video evidence includes a photo taken at the moment that the payload box with the camera fell down through the balloon causing it to rupture.

Just curious if this has happened to anyone else.

Howard

6182. Re: [GPSL] University of Southern Indiana balloon experiment on CNN

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 20:28:47 UTC
From: Jeff Dailey
Topic: 6179 Message: 6182

They were using a StratoStar TU301-3 for the APRS and StratoStar 900-4 for the data and tracking link.

----- Original Message ----
From: "gregwilliams@..." <gregwilliams@...>
To: GPSL@...m
Cc: chat@...
Sent: Mon, November 9, 2009 12:01:19 PM
Subject: [GPSL] University of Southern Indiana balloon experiment on CNN

I don't know if this was an amateur payload, but a group from Univ. of Southern Indiana sent one up and published it on a CNN iReport that made the front page:

http://www.cnn.com/2009/TECH/11/09/balloon.irpt/index.html

Greg Williams
gregwilliams@...

Yahoo! Groups Links

6183. Re: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 23:46:59 UTC
From: Mike Manes
Topic: 6181 Message: 6183

We've seen several pix from our flights where the parachute appeared BELOW the horizon, and that's one form of Post Burst Chaos that many of us have experienced. However, I can think of no mechanism that would cause the payload string to rise above an ascending, inflated balloon envelope.

Common PBC is likely the result of a severe form of parachute instability, causing the parachute to be pushed sideways due to high-velocity lateral venting. And parachutes don't work all that well flying sideways. So a payload that has a low ballistic coefficient (low terminal descent rate) can have more drag than the compromised 'chute, thus causing inversion of the entire string.

We had one case where part of the payload string fell into the top of the parachute canopy, causing a rather snappy 15-minute descent from 95K' with an abrupt halt on a plowed field well short of the predicted downrange point. JPL had the same thing happen with a much heavier payload that left a prominent divot in the desert.

Are you SURE that the balloon was still inflated on iversion? I just watched the CNN video, and saw a normal burst, with gobs of latex shards hanging off the top of the parachute - which also execerbates the 'chute instability problem, BTW.

We've also had some poorly-attached student payloads become detached during PBC - and in one case, it was a string of 6 shoe box sized and very light ones that severed a 240 lb tensile Dacron line. We did find 'em within a mile of the burst lat/lon the next day - but only with an air search. We haven't used Dacron since then, because it doesn't stretch nearly as well as woven nylon - the latter acts like a bungee cord, thus spreading impulse shock over time and distance.

73 de Mike W5VSI
CTO EOSS

BASE wrote:
> Dear friends,
>
> I have learned of a recent high altitude balloon flight (my son had a experiment on the flight) where during ascent, the payload string was inverted above the balloon and parachute above 80 kft. Has anyone else ever experienced this phenomena?
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> The video evidence includes a photo taken at the moment that the payload box with the camera fell down through the balloon causing it to rupture.
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> Howard
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6184. Re: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-09 23:17:59 UTC
From: mw@omsrc.com
Topic: 6181 Message: 6184

Hi Howard!

Did you look for little green fingerprints on the payload? Perhaps ET was at play here? :)

Curious - What was the weight, size and shape of this payload?

Reading your message I assume you meant "visual evidence" and not "video evidence", and you have only a single picture of the inverted phenomena? Were there other pictures on the way up that would indicate severe turbulence?

My thought - there must have been a high-altitude wind rotor event which flipped the whole mess. The YF-12A and other planes that have flown at 70-80K feet have encountered rather strong turbulence at these altitudes, though it occurs in only a small percentage (4-6%) of their flights. These can be caused by terrain disturbances or more likely pressure gradients creating tucks and swirls in the layers of the upper atmosphere.

My two recent videos at high altitude showed only a very, very calm atmosphere up there, as if the payloads were hung from something on solid ground. There was not a hint of any turbulence. No doubt there is drastic movement up very high as well at times, we just don't see it often.

--Michael

Quoting BASE <basedepauw@...>:

> Dear friends,
>
> I have learned of a recent high altitude balloon flight (my son had
> a experiment on the flight) where during ascent, the payload string
> was inverted above the balloon and parachute above 80 kft. Has
> anyone else ever experienced this phenomena?
>
> The video evidence includes a photo taken at the moment that the
> payload box with the camera fell down through the balloon causing it
> to rupture.
>
> Just curious if this has happened to anyone else.
>
> Howard
>
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>

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6185. Re: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-10 01:03:21 UTC
From: BASE
Topic: 6181 Message: 6185

Dear friends,

The flight that I am referring to has nothing to do with the University of Southern Indiana flight that made CNN. The payload inversion occurred on October 17, on one of the Astronomy class balloon flights from Taylor University. The balloon was a 1500 gram with a helium fill and approximately 11 pounds of payload in at least nine payload boxes. The ascent rate was approximately 1400 feet/minute.

Although I have only seen several screen captures from the flight, the evidence is indeed video from two video cameras one mounted looking up the payload string and the second looking down the string. The first two images that I have seen shows the payload string nearly parallel to the horizon at about 82,000 ft. The image at 82,500 feet show only contain a couple of pods at odd angles. The next two frames that I have seen are labeled at 82,625 feet and show the parachute, spreader hoop, and slack payload strings on top of the balloon.

The balloon is clearly inflated until the last two screen captures that I have seen which show the camera pod moving through the balloon. The last image shows the artificial curves in the clouds due to the rapid tumbling that occurs so often in the post-burst environment. These last images are all identified at the same elevation and may be consecutive frames from the video.

Like Mike, I have seen many minutes of post burst video with inverted stacks of payloads and various rearrangements of payload order including slack line between boxes and the parachute and balloon 'leading' the descent. These photos are remarkably different.

It has been suggested that the phenomena may be a result of high altitude clear air turbulence such as may occasionally be encountered by the U2 and ER2 aircraft. See:

http://pdf.aiaa.org/preview/CDReadyMASM09_1811/PV2009_112.pdf

http://pdf.aiaa.org/preview/CDReadyMASM09_1811/PV2009_113.pdf

Howard

--- On Mon, 11/9/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Payload inversion at high altitudes
To: GPSL@yahoogroups.com
Date: Monday, November 9, 2009, 6:46 PM

We've seen several pix from our flights where the parachute appeared BELOW

the horizon, and that's one form of Post Burst Chaos that many of us have

experienced. However, I can think of no mechanism that would cause the

payload string to rise above an ascending, inflated balloon envelope.
Common PBC is likely the result of a severe form of parachute instability, causing the parachute to be pushed sideways due to high-velocity lateral venting. And parachutes don't work all that well flying sideways. So a payload that has a low ballistic coefficient (low terminal descent rate) can have more drag than the compromised 'chute, thus causing inversion of the entire string.
We had one case where part of the payload string fell into the top of the parachute canopy, causing a rather snappy 15-minute descent from 95K' with an abrupt halt on a plowed field well short of the predicted downrange point. JPL had the same thing happen with a much heavier payload that left a prominent divot in the desert.
Are you SURE that the balloon was still inflated on iversion? I just watched the CNN video, and saw a normal burst, with gobs of latex shards hanging off the top of the parachute - which also execerbates the 'chute instability problem, BTW.
We've also had some poorly-attached student payloads become detached during PBC - and in one case, it was a string of 6 shoe box sized and very light ones that severed a 240 lb tensile Dacron line. We did find 'em within a mile of the burst lat/lon the next day - but only with an air search. We haven't used Dacron since then, because it doesn't stretch nearly as well as woven nylon - the latter acts like a bungee cord, thus spreading impulse shock over time and distance.
73 de Mike W5VSI
CTO EOSS
BASE wrote:
> Dear friends,
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> I have learned of a recent high altitude balloon flight (my son had a experiment

on the flight) where during ascent, the payload string was inverted above the balloon and parachute above 80 kft. Has anyone else ever experienced this phenomena?

> The video evidence includes a photo taken at the moment that the payload box with the camera fell down through the balloon causing it to rupture.

> Just curious if this has happened to anyone else.

> Howard

> ------------ --------- --------- ------

> Yahoo! Groups Links

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

6186. Re: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-10 02:45:35 UTC
From: Mike Manes
Topic: 6181 Message: 6186

Do you have links to the pix from the Taylor flight that you could post?
I'd love to see what you've seen!
73 de Mike W5VSI
CTO EOSS

BASE wrote:
>
>
> Dear friends,
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> The flight that I am referring to has nothing to do with the University
> of Southern Indiana flight that made CNN. The payload inversion
> occurred on October 17, on one of the Astronomy class balloon flights
> from Taylor University. The balloon was a 1500 gram with a helium fill
> and approximately 11 pounds of payload in at least nine payload boxes.
> The ascent rate was approximately 1400 feet/minute.
>
> Although I have only seen several screen captures from the flight, the
> evidence is indeed video from two video cameras one mounted looking up
> the payload string and the second looking down the string. The first
> two images that I have seen shows the payload string nearly parallel to
> the horizon at about 82,000 ft. The image at 82,500 feet show only
> contain a couple of pods at odd angles. The next two frames that I have
> seen are labeled at 82,625 feet and show the parachute, spreader hoop,
> and slack payload strings on top of the balloon.
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> The balloon is clearly inflated until the last two screen captures that
> I have seen which show the camera pod moving through the balloon. The
> last image shows the artificial curves in the clouds due to the rapid
> tumbling that occurs so often in the post-burst environment. These last
> images are all identified at the same elevation and may be consecutive
> frames from the video.
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> Like Mike, I have seen many minutes of post burst video with inverted
> stacks of payloads and various rearrangements of payload order including
> slack line between boxes and the parachute and balloon 'leading' the
> descent. These photos are remarkably different.
>
> It has been suggested that the phenomena may be a result of high
> altitude clear air turbulence such as may occasionally be encountered by
> the U2 and ER2 aircraft. See:
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> http://pdf.aiaa.org/preview/CDReadyMASM09_1811/PV2009_112.pdf
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> Howard
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> --- On *Mon, 11/9/09, Mike Manes /<mrmanes@...>/* wrote:
>
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> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Payload inversion at high altitudes
> To: GPSL@yahoogroups.com
> Date: Monday, November 9, 2009, 6:46 PM
>
>
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> We've seen several pix from our flights where the parachute appeared
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> the horizon, and that's one form of Post Burst Chaos that many of us
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> payload string to rise above an ascending, inflated balloon envelope.
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> Common PBC is likely the result of a severe form of parachute
> instability,
> causing the parachute to be pushed sideways due to high-velocity lateral
> venting. And parachutes don't work all that well flying sideways. So
> a payload that has a low ballistic coefficient (low terminal descent
> rate) can have more drag than the compromised 'chute, thus causing
> inversion of the entire string.
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> We had one case where part of the payload string fell into the top
> of the parachute canopy, causing a rather snappy 15-minute descent from
> 95K' with an abrupt halt on a plowed field well short of the predicted
> downrange point. JPL had the same thing happen with a much heavier
> payload that left a prominent divot in the desert.
>
> Are you SURE that the balloon was still inflated on iversion? I just
> watched the CNN video, and saw a normal burst, with gobs of latex shards
> hanging off the top of the parachute - which also execerbates the 'chute
> instability problem, BTW.
>
> We've also had some poorly-attached student payloads become detached
> during PBC - and in one case, it was a string of 6 shoe box sized and
> very light ones that severed a 240 lb tensile Dacron line. We did
> find 'em within a mile of the burst lat/lon the next day - but only
> with an air search. We haven't used Dacron since then, because it
> doesn't stretch nearly as well as woven nylon - the latter acts like
> a bungee cord, thus spreading impulse shock over time and distance.

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> 73 de Mike W5VSI
> CTO EOSS
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> > I have learned of a recent high altitude balloon flight (my son
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> above the
> balloon and parachute above 80 kft. Has anyone else ever experienced
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> > The video evidence includes a photo taken at the moment that the
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@gmail. com </mc/compose?to=mrmanes%40gmail.com>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
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6187. Re: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-10 11:10:52 UTC
From: BASE
Topic: 6181 Message: 6187

I'll ask Jeff Dailey for permission to post a link.

Howard

--- On Mon, 11/9/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@gmail.com>
Subject: Re: [GPSL] Payload inversion at high altitudes
To: GPSL@yahoogroups.com
Date: Monday, November 9, 2009, 9:45 PM

Do you have links to the pix from the Taylor flight that you could post?

I'd love to see what you've seen!

73 de Mike W5VSI

CTO EOSS

BASE wrote:

>

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> Dear friends,

>

> The flight that I am referring to has nothing to do with the University

> of Southern Indiana flight that made CNN. The payload inversion

> occurred on October 17, on one of the Astronomy class balloon flights

> from Taylor University. The balloon was a 1500 gram with a helium fill

> and approximately 11 pounds of payload in at least nine payload boxes.

> The ascent rate was approximately 1400 feet/minute.

>

> Although I have only seen several screen captures from the flight, the

> evidence is indeed video from two video cameras one mounted looking up

> the payload string and the second looking down the string. The first

> two images that I have seen shows the payload string nearly parallel to

> the horizon at about 82,000 ft. The image at 82,500 feet show only
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> seen are labeled at 82,625 feet and show the parachute, spreader hoop,
> and slack payload strings on top of the balloon.
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> images are all identified at the same elevation and may be consecutive
> frames from the video.
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> Like Mike, I have seen many minutes of post burst video with inverted
> stacks of payloads and various rearrangements of payload order including
> slack line between boxes and the parachute and balloon 'leading' the
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> It has been suggested that the phenomena may be a result of high
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> --- On *Mon, 11/9/09, Mike Manes /<mrmanes@gmail. com>/* wrote:

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> From: Mike Manes <mrmanes@gmail. com>

> Subject: Re: [GPSL] Payload inversion at high altitudes

> To: GPSL@yahoogroups. com

> Date: Monday, November 9, 2009, 6:46 PM

>

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> experienced. However, I can think of no mechanism that would cause the

> payload string to rise above an ascending, inflated balloon envelope.

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> venting. And parachutes don't work all that well flying sideways. So

> a payload that has a low ballistic coefficient (low terminal descent

> rate) can have more drag than the compromised 'chute, thus causing

> inversion of the entire string.

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> of the parachute canopy, causing a rather snappy 15-minute descent from

> 95K' with an abrupt halt on a plowed field well short of the predicted
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> > Yahoo! Groups Links

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> Mike Manes mrmanes@gmail. com </mc/compose? to=mrmanes% 40gmail.com>

> Tel: 303-979-4899

> "Things should be made as simple as possible, but not more so."

> A. Einstein

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899

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A. Einstein

6188. RE: [GPSL] Payload inversion at high altitudes

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-10 21:26:31 UTC
From: Rick von Glahn
Topic: 6181 Message: 6188

We would really like to see this video/still imagery. EOSS's vp is a NOAA guy and wants a peek too.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of BASE
Sent: Tuesday, November 10, 2009 4:11 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Payload inversion at high altitudes

I'll ask Jeff Dailey for permission to post a link.

Howard

--- On Mon, 11/9/09, Mike Manes <mrmanes@gmail.com> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Payload inversion at high altitudes
To: GPSL@yahoogroups.com
Date: Monday, November 9, 2009, 9:45 PM

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BASE wrote:
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> Subject: Re: [GPSL] Payload inversion at high altitudes
> To: GPSL@yahoogroups. com
> Date: Monday, November 9, 2009, 6:46 PM
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> downrange point. JPL had the same thing happen with a much heavier
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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
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6189. Taylor Astro 20 photo

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-11 13:51:28 UTC
From: Jeff Dailey
Topic: 6189 Message: 6189

I have uploaded one of the Astro 20 flight video frames to the photo files called Taylor Turbulence Flight 20.

We are working on the data and will be presenting it at the AGU conference in December.

6190. Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-11 14:25:06 UTC
From: Jeff Dailey
Topic: 5921 Message: 6190

Taylor University

Flight #: 215
Flight ID: Trainning
Date: 11-12-2009
Time: 8:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-6

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6191. Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-11 14:27:40 UTC
From: Jeff Dailey
Topic: 5921 Message: 6191

Taylor University

Flight #: 216
Flight ID: High School Workshop
Date: 11-12-2009
Time: 1:00PM
Launch Site: Fishers Indiana

APRS: 144.390 KB9ZNZ-2 and KB9ZNZ-4

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6192. Test

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-11 17:22:33 UTC
From: Idle-Tyme
Topic: 6189 Message: 6192

Sorry

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

>

6193. Change of launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-12 13:02:40 UTC
From: Jeff Dailey
Topic: 6193 Message: 6193

We are moving the launch date to 11-13-2009 at 9:00am.

Flight #: 215
Flight ID: Trainning
Date: 11-13-2009
Time: 9:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-6

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W.. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6194. Justice - forwarded from my wife

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-12 14:02:17 UTC
From: L. Paul Verhage
Topic: 6194 Message: 6194

I just got this link from Rachel. The Balloon Boy's parents have plead guilty.

http://www.msnbc.msn.com/id/33881293/ns/us_news-life

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Onwards and Upwards,
Paul

6195. Taylor University is in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-13 18:07:09 UTC
From: Jeff Dailey
Topic: 6195 Message: 6195

Hello,

We have KB9ZNZ-2 and KB9ZNZ-6 are both in the air.

Launch time: 12:15AM
From: Taylor Universty

Thanks

Jeff Dailey

6196. Iowa balloon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 00:40:13 UTC
From: Al Wolfe
Topic: 6196 Message: 6196

Yesterday KC0GBP-11 flew in NE Iowa to something over 100k altitude. Congratulations on a good flight guys!

However, the ten second packet rate on APRS was a bunch over the top. And that with a path of Wide2-2 pretty much tied up and saturated the APRS network in several states for a few hours.

Gotta be a better way.

Al, K9SI

6197. Iowa balloon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 03:20:09 UTC
From: Pete Lilja
Topic: 6196 Message: 6197

Hi, Al,

Thanks for the kudos on the flight. It was a wild one for us to be sure.

It has been discussed on one of these balloon lists about the flight and particularly the overwhelming number of packets thrown by our (my) radio on this flight. It turns out I had the profile switching in my Open Tracker + activated above 50,000' when it switched profiles and sent a packet. It then switched to the original profile and sent another packet. I see now the err and have and again apologize to the APRS community for jamming and abusing the network. While unintentional this was entirely my fault. I know now what to change .

As is often the case I learned more from the mistakes on this flight than with what went right. For me that's what this is all about. I do regret, however, the radio bungle as that affected a lot more people than just me and the NIXHAB group.

106,000' was a huge surprise. As I never thought I'd do I was wishing for an early burst as that balloon slowly rose above us. But that didn't happen. My balloon buddy, Larry, commented at one point as we sat in my car 20 miles below the wildly transmitting payload in his stoic and laid-back way - "A watched balloon never bursts." Now, I don't care who you are that's funny.

I am sorry this has happened and will work to see that it doesn't happen again.

Pete
KCØGPB

6198. Re: [GPSL] Iowa balloon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 03:41:52 UTC
From: mw@omsrc.com
Topic: 6196 Message: 6198

That has already been covered in another discussion... :) I am not sure if the balloon actually hit the ground yet and major flames were flying about the APRS issue.

There was a malfunction in their APRS beacon, it was at 1 minute intervals prior to 50K feet then went into another mode or configuration automagically. They are looking into it.

Yes, in digi-populated areas nothing for a path will work in many cases, or today Taylor flew with Wide1-1 and that seemed to work well. It was pointed out that the worst case for an AHAB is Wide2-1.

Unfortunately in-depth info on when to use what setting in APRS is really not widely published. I have not found anything about path setting of APRS and ballooning in my quick searches on the net. I think a lot of us could have put in that same setting being new to APRS without a second thought, as it's impact is not obvious until the affect was realized.

I will add a note on my website (ARBONET.NET) to hopefully help in this regard. If anyone knows of good links that I missed that details APRS and AHAB, I would love to add them as a link from our site.

I am certain several of us learned a lot from that flight. I appreciated that someone else had a better flame suit on for something I might have done too! :)

--Michael
K5NOT

Quoting Al Wolfe <k9si@...>:

> Yesterday KC0GBP-11 flew in NE Iowa to something over 100k altitude.
> Congratulations on a good flight guys!
>
> However, the ten second packet rate on APRS was a bunch over the top. And
> that with a path of Wide2-2 pretty much tied up and saturated the APRS
> network in several states for a few hours.
>
> Gotta be a better way.
>
> Al, K9SI
>
>
>

6199. Re: [GPSL] Iowa balloon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 04:11:30 UTC
From: Pete Lilja
Topic: 6196 Message: 6199

Well said, Michael. Thank you. Being the offender here I would welcome this discussion.

I know it comes up from time to time the 'proper' APRS settings for HA ballooning. What I've seen and gleaned from those discussions is that there is no real consensus. Everyone has a different opinion from differing backgrounds, experience and geographic locations.

Here in NE Iowa there are relatively few digis. That's not a problem a few thousand feet AGL but can be while the radio rests after landing. I only realized tonight that the last packet made to the APRS network was digi'ed through *my* mobile as we got close to recovery near Dubuque. (Dare I say it? I thought I'd turned off my digi! Another radio mistake by me yesterday that turned out to help me). I was wondering how that packet made it out as the antenna coax cable pulled free (I believe from the online look of the descent) during PBC.

At any rate - APRS transmission settings. What should they be? I'm now running an Open Tracker + with the advantage of changeable profiles. Can I (and should I) have it beacon a Wide 2-2 only below, say, 3000'? Over that use a 1-1? Or what?

What about those that fly radios without Profile Switching? Should they not be allowed certain settings that may help them with recovery?

I am in no way proposing any 'rules'. But maybe some guidelines that can be used for various set-ups and geographical locations to help people decide what will work best for them and the APRS system..

I can take the flames, lumps and hits for this. I'm learning a lot from the flight.

And I will add that with the one glaring exception I have received many, many words of encouragement and support from the ARHAB community despite my faux pas yesterday. To me that is a testament to the quality of people that participate in this hobby.

Flame-Proof Pete
KCØGPB

On Fri, Nov 13, 2009 at 9:41 PM, <mw@...> wrote:

>
>
>
> That has already been covered in another discussion... :) I am not
> sure if the balloon actually hit the ground yet and major flames were

> flying about the APRS issue.
>
> There was a malfunction in their APRS beacon, it was at 1 minute
> intervals prior to 50K feet then went into another mode or
> configuration automagically. They are looking into it.
>
> Yes, in digi-populated areas nothing for a path will work in many
> cases, or today Taylor flew with Wide1-1 and that seemed to work well.
> It was pointed out that the worst case for an AHAB is Wide2-1.
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> Unfortunately in-depth info on when to use what setting in APRS is
> really not widely published. I have not found anything about path
> setting of APRS and ballooning in my quick searches on the net. I
> think a lot of us could have put in that same setting being new to
> APRS without a second thought, as it's impact is not obvious until the
> affect was realized.
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> I am certain several of us learned a lot from that flight. I
> appreciated that someone else had a better flame suit on for something
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> --Michael
> K5NOT
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> Quoting Al Wolfe <k9si@... <k9si%40arrl.net>>:
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> > that with a path of Wide2-2 pretty much tied up and saturated the APRS
> > network in several states for a few hours.
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> > Al, K9SI
> >
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6200. Re: [GPSL] Iowa balloon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 15:08:38 UTC
From: Pete Lilja
Topic: 6196 Message: 6200

Since the discussion on APRS radio settings is an important topic to me (and others, I'm guessing) I've begun a new topic on the subject on the forum at http://www.nearspace.org/forum/index.php I find these forums a convenient place for this kind of thing as the topics are all contained in one area as opposed to these emails that get lost and wander topically.

Please join in and chime in with your ideas.

Pete
KC0GPB

----- Original Message -----
From: Pete Lilja
To: GPSL@yahoogroups.com
Sent: Friday, November 13, 2009 10:11 PM
Subject: Re: [GPSL] Iowa balloon flight Thursday

Well said, Michael. Thank you. Being the offender here I would welcome this discussion.

I know it comes up from time to time the 'proper' APRS settings for HA ballooning. What I've seen and gleaned from those discussions is that there is no real consensus. Everyone has a different opinion from differing backgrounds, experience and geographic locations.

Here in NE Iowa there are relatively few digis. That's not a problem a few thousand feet AGL but can be while the radio rests after landing. I only realized tonight that the last packet made to the APRS network was digi'ed through my mobile as we got close to recovery near Dubuque. (Dare I say it? I thought I'd turned off my digi! Another radio mistake by me yesterday that turned out to help me). I was wondering how that packet made it out as the antenna coax cable pulled free (I believe from the online look of the descent) during PBC.

At any rate - APRS transmission settings. What should they be? I'm now running an Open Tracker + with the advantage of changeable profiles. Can I (and should I) have it beacon a Wide 2-2 only below, say, 3000'? Over that use a 1-1? Or what?

What about those that fly radios without Profile Switching? Should they not be allowed certain settings that may help them with recovery?

I am in no way proposing any 'rules'. But maybe some guidelines that can be used for various set-ups and geographical locations to help people decide what will work best for them and the APRS system..

I can take the flames, lumps and hits for this. I'm learning a lot from the flight.

And I will add that with the one glaring exception I have received many, many words of encouragement and support from the ARHAB community despite my faux pas yesterday. To me that is a testament to the quality of people that participate in this hobby.

Flame-Proof Pete
KCØGPB

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sure if the balloon actually hit the ground yet and major flames were
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configuration automagically. They are looking into it.

Yes, in digi-populated areas nothing for a path will work in many
cases, or today Taylor flew with Wide1-1 and that seemed to work well.
It was pointed out that the worst case for an AHAB is Wide2-1.

Unfortunately in-depth info on when to use what setting in APRS is
really not widely published. I have not found anything about path
setting of APRS and ballooning in my quick searches on the net. I
think a lot of us could have put in that same setting being new to
APRS without a second thought, as it's impact is not obvious until the
affect was realized.

I will add a note on my website (ARBONET.NET) to hopefully help in
this regard. If anyone knows of good links that I missed that details
APRS and AHAB, I would love to add them as a link from our site.

I am certain several of us learned a lot from that flight. I
appreciated that someone else had a better flame suit on for something
I might have done too! :)

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Quoting Al Wolfe <k9si@...>:

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> Congratulations on a good flight guys!
>
> However, the ten second packet rate on APRS was a bunch over the top. And
> that with a path of Wide2-2 pretty much tied up and saturated the APRS
> network in several states for a few hours.
>
> Gotta be a better way.
>
> Al, K9SI
>
>
>

6201. Re: Iowa ballooon flight Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 17:22:42 UTC
From: Al Wolfe
Topic: 6201 Message: 6201

Pete,
I was not able to stay around and watch your whole flight Thursday but it looked interesting to get up that high.

As far as your APRS path I don't know what would be optimum. Wide1-1 will key up almost every APRS station within range which can be several hundred miles at altitude. 2-1 will only key up the digis. Probably no path at all would be fine above 20k.

Of course that all changes when you're out looking for the package on the ground. Here a path of 1-1, followed by 2-1, or an even greater path would certainly be valuable to the searchers and would be a minimal impact on the rest of the APRS network.

I'm not familiar with your hardware but it sounds like some of the configuration can be altitude dependant.

I also have not followed this thread on other Sigs as there are only so many to watch (already get 46 other ones) so don't know what others have offered.

I remember back in the early days of balloon chasing before we had GPS and APRS. That was a challenge!

73,
Al, K9SI

6202. Path recommendations

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 18:01:51 UTC
From: Mark Conner
Topic: 6202 Message: 6202

I think it's generally accepted that anything more than WIDE2-1 at "high altitude" is not necessary. Because you'll be direct line-of-sight to the digipeater, if the channel is clear you'll more than likely get in. Adding another hop at the periphery of your already-large footprint is unnecessary. One digipeat, however, gives you another shot at hearing the payload data should the original packet get clobbered.

WIDE1-1 in your path at altitude will bring up a lot of home stations and thus a lot of QRM when they all try to retransmit.

At low altitudes, switching to WIDE1-1,WIDE2-1 should get you into a nearby digipeater to help with the end of your chase if you don't happen to be close enough to hear it direct. I might get you a post-landing posit into the network too.

I think a good transition altitude between these altitudes is somewhere around 5000 ft AGL. Above this you probably won't need digipeater help, below it you might. One could argue plus or minus a bit, but that's only a handful of minutes on the network.

High posit rates (more frequent than every minute) should probably be left to a non-144.39 frequency. 144.34 was commonly used earlier, but can draw complaints from SSTV users (it's often used as a simplex voice channel). NSTAR has settled on 144.36 MHz as our high-rate freq.

73 de Mark N9XTN

6203. Re: [GPSL] Path recommendations

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-14 18:18:29 UTC
From: Pete Lilja
Topic: 6202 Message: 6203

Thanks, Mark,

That is a very succinct and easily understood response.

Are there any OT users out there that use the profile switching to do as Mark suggests and willing to share their OT+ configuration file with other HABists?

Pete
KC0GPB

----- Original Message -----
From: Mark Conner
To: GPSL list
Sent: Saturday, November 14, 2009 12:01 PM
Subject: [GPSL] Path recommendations

I think it's generally accepted that anything more than WIDE2-1 at "high altitude" is not necessary. Because you'll be direct line-of-sight to the digipeater, if the channel is clear you'll more than likely get in. Adding another hop at the periphery of your already-large footprint is unnecessary. One digipeat, however, gives you another shot at hearing the payload data should the original packet get clobbered.

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73 de Mark N9XTN

6204. MIT balloon on 14436 FM DominoEX16 from Albany NY to NH and MA Sunday at 11 am

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-15 08:49:04 UTC
From: wb8elk@aol.com
Topic: 6204 Message: 6204

Sorry for the short notice but the MIT students will be flying from Albany, NY Sunday (today) at 11:00 am EST. They will be carrying a payload I sent them on 144.36 MHz FM sending down DominoEX16 mode about every 30 seconds. Predicted landing zone is near the NH/MA border south of Jaffrey, NH.

Please send any reception reports to: wb8elk@... and copy it to yeho@mit.edu

- Bill WB8ELK

6205. Re: [EOSS] FW: Balloon pic

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-17 03:34:17 UTC
From: Mike Manes
Topic: 6205 Message: 6205

Hmmm ... using a callsign of "FLIGHT", eh? Didn't realize France had
adopted all-alpha callsigns, and this shows that the CEPT mutual recognition
agreement has just gone too far :=P.

It seems that their GPS was giving totally bogus data as well - on the
equator at the prime meridian on the deck?

73 de Mike W5VSI

S. Osborne wrote:
> I got the following - missed some of the shorter packets - need a prefilter
> to get rid of the non-packet noise (the time stamps are mine):
>
>
>
> FLIGHT>APT311,WIDE2-2 [20091117 003542 UTC]:
> <UI>:!0000.00N/00000.00EO000/000/A=000000
>
> FLIGHT>APT311,WIDE2-2 [20091117 003554 UTC]:
> <UI>:!0000.00N/00000.00E0000/000/A=(00000
>
> FLIGHT>APT311,WIDE2-2 [20091117 003557 UTC]:
> <UI>:!0000.00N/00000.00EO000/000/A=000000
>
> FLIGHT>APT311,WIDE2-2 [20091117 003600 UTC]:
> <UI>:!0000.00N/00000.00EO000/000/A=000000
>
> FLIGHT>APT311,WIDE2-2 [20091117 003610 UTC]: <UI>:>(C) Simon Faithfull
>
>
>
> Tnx - Steve O. KC0YA
>
>
>
> _____
>
> From: EOSS@yahoogroups.com [mailto:EOSS@yahoogroups.com] On Behalf Of Marty
> Griffin
> Sent: Monday, November 16, 2009 1:56 PM
> To: EOSS@yahoogroups.com
> Subject: [EOSS] FW: Balloon pic
>
>
>
>

>
> This is High Def from an amateur balloon. Can you hear the APRS in the
> background and decode it? I wonder who flew this?
>
> The chair did not recover from PBC so well, but the FAA should be happy.
> Good fun.
>
> Marty, WA0GEH, EOSS
>
> Hi Marty,
>
> I imagine you saw this . . .
>
> http://gizmodo.
> <http://gizmodo.com/5405517/video-arm-chair-reaches-98268-feet-in-new-toshib
> a> com/5405517/video-arm-chair-reaches-98268-feet-in-new-toshiba
> -commercial
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6206. ARHAB wiki article

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-17 04:06:58 UTC
From: Mark Conner
Topic: 6206 Message: 6206

I was poking around on Wikipedia and wandered over to the ARHAB article and made a couple of minor fixes. I found the stats page for the article and went back a few months to see what our hit counts were like. Surprisingly (to me) there was consistently 5-15 hits per day for much of the year. However, on Sept 14 it spiked to 77 hits, which was when the MIT balloon story came out. Higher hit counts persisted in a decaying fashion for about three weeks and are now back to our 5-15 hit-per-day average.

Don't know if these hits are real users or search engines wandering by. If you want to explore the stats page on your own, you'll need to look at "ARHAB" as that was the article title prior to mid-October.

http://en.wikipedia.org/wiki/Amateur_Radio_High_Altitude_Ballooning

73 de Mark N9XTN

6207. Re: [GPSL] ARHAB wiki article

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-17 13:47:05 UTC
From: L. Paul Verhage
Topic: 6206 Message: 6207

I see people have been keeping the webpage up to date. I think I'll put a graphic together to illustrate the stack.

I subscribe a Google notice about near space. The number of daily notices was huge during the MIT event. They've tapered off to one or two updates daily.

Paul

On Mon, Nov 16, 2009 at 10:06 PM, Mark Conner <mconner1@...> wrote:

>
>
> I was poking around on Wikipedia and wandered over to the ARHAB article and
> made a couple of minor fixes. I found the stats page for the article and
> went back a few months to see what our hit counts were like. Surprisingly
> (to me) there was consistently 5-15 hits per day for much of the year.
> However, on Sept 14 it spiked to 77 hits, which was when the MIT balloon
> story came out. Higher hit counts persisted in a decaying fashion for about
> three weeks and are now back to our 5-15 hit-per-day average.
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> you want to explore the stats page on your own, you'll need to look at
> "ARHAB" as that was the article title prior to mid-October.
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> http://en.wikipedia.org/wiki/Amateur_Radio_High_Altitude_Ballooning
>
> 73 de Mark N9XTN
>
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>

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Onwards and Upwards,
Paul

6208. Re: [GPSL] Re: [EOSS] FW: Balloon pic

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-18 10:20:04 UTC
From: wb8elk@aol.com
Topic: 6205 Message: 6208

Hi All,

This was launched by John Powell's group, JP Aerospace from California. They were a competitor of ours during the CATS Prize (Cheap Access To Space) event in the late 90's (our group [HARC] and John Powell's both decided to fly Rockoons). We flew out of the Gulf of Mexico and they flew out of Black Rock. They usually launch from the Black Rock desert in Nevada where this commercial was filmed. It appeared to me that there was no parachute, (you'll note how the chair breaks apart at post-burst chaos), but then nothing but jackrabbits to hit out there...maybe the chute unfurled after burst...hard to tell for sure. This is the same area where the Large and Dangerous Rocket Society have their annual launch and also where "Burning Man" is done...I've attended both. Ask me someday about riding in a car from Burning Man across the dry lakebed back to the LDRS rocket area in the middle of the night at 70 mph with a blindfolded driver relying on me to give him GPS directions to our tent....fortunately it worked and we didn't run over the tent or any rockets....I also somehow managed to survive that experience as well as the two-stage rocket being prepped by the LDRS safety director that accidently fired off horizontally into the parking lot narrowly missing me the following day. It went completely through the back tire of a Bronco....that tire and rocket are still in front of a bar in Gurlock NV at the entrance of the lake.

I also immediately decoded the APRS packets from the commercial and also saw the 0000.00 lat/lons....probably the sound crew just looped the packet sounds since they thought it sounded cool....I could decode it even without an audio filter. If you look at the "Making of Space Chair" YouTube video, you'll see them chasing around with 2 meter Arrow antennas to recover the high def cameras and recorders.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: EOSS@yahoogroups.com; GPSL Balloon Reflector <GPSL@yahoogroups.com>
Sent: Mon, Nov 16, 2009 9:34 pm
Subject: [GPSL] Re: [EOSS] FW: Balloon pic

Hmmm ... using a callsign of "FLIGHT", eh? Didn't realize France had
adopted all-alpha callsigns, and this shows that the CEPT mutual recognition
agreement has just gone too far :=P.

It seems that their GPS was giving totally bogus data as well - on the
equator at the prime meridian on the deck?

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> <UI>:!0000.00N/00000.00EO000/000/A=000000
>
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> <UI>:!0000.00N/00000.00EO000/000/A=000000
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> a> com/5405517/video-arm-chair-reaches-98268-feet-in-new-toshiba
> -commercial

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Mike Manes mrmanes@... Tel: 303-979-4899
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6209. Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-18 21:37:52 UTC
From: BASE
Topic: 6209 Message: 6209

Dear friends,

Here is a second HAB flight with pre-burst chaos.

Taylor did a flight on November 12 from Fishers, IN (see ARHAB Balloon Schedule) that experienced pre-burst chaos. Burst was accomplished with one of the payloads.

Two videos and a set of still pictures have been posted on the web at:

PRE-Burst Chaos Down Video -
http://www.nearspacenetwork.com/video/preburst-chaos-vidoeo-111209

PRE-Burst Chaos Up Video -
http://www.nearspacenetwork.com/video/preburst-chaos-vidoeo-111209-1

Payloads Bursting Balloon Frame by Frame -
http://www.nearspacenetwork.com/photo/albums/payload-burst-the-balloon

This is not from the flight of October 17 that Jeff Dailey posted a single frame from recently.

Does the phenomena occur more often when the mid-stratosphere jetstream is changing?

Howard

6210. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-18 22:01:54 UTC
From: Mark Conner
Topic: 6209 Message: 6210

Wow, that's pretty **** violent for being on the way up.....

For our NSTAR video flights, we've never had anything like that happen. Our still cameras don't seem to show that kind of turbulence on ascent either.

Normally, this level of the atmosphere is pretty benign for turbulence, especially for a scale affecting a balloon (a fast-moving aircraft is another matter) and away from any thunderstorms. How much do the payloads weigh? They look like they might be pretty light. Could it be something like vortex shedding as the balloon rises, becoming resonant with the pendulum period of the payloads hanging below? The vortices may hit the lower payloads in a rhythmic fashion, causing them to swing more and more.

If you watch a helium party balloon with a light string attached to it rise, you can see this happen too (not the pendulum effect so much, but the balloon swinging rhythmically).
Having the atmosphere itself be this violent on this small of a scale is pretty unusual to say the least, and to have it happen to two different flights on different days would lead me to focus back on the flight train characteristics instead of the atmosphere.

73 de Mark N9XTN
On Wed, Nov 18, 2009 at 15:37, BASE <basedepauw@...> wrote:

> Dear friends,
>
> Here is a second HAB flight with pre-burst chaos.
>
> Taylor did a flight on November 12 from Fishers, IN (see ARHAB Balloon
> Schedule) that experienced pre-burst chaos. Burst was accomplished with one
> of the payloads.
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> Two videos and a set of still pictures have been posted on the web at:
>
> PRE-Burst Chaos Down Video -
> http://www.nearspacenetwork.com/video/preburst-chaos-vidoeo-111209
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> http://www.nearspacenetwork.com/video/preburst-chaos-vidoeo-111209-1
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>
> This is not from the flight of October 17 that Jeff Dailey posted a single
> frame from recently.

>
> Does the phenomena occur more often when the mid-stratosphere jetstream is
> changing?
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> Howard
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> Yahoo! Groups Links
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6211. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-18 22:47:12 UTC
From: mw@omsrc.com
Topic: 6209 Message: 6211

I was thinking the same thing Mark. The elasticity of the balloon while encountering even minor turbulence may induce a resonance with the payloads.

If anything, on our few flights, our payloads are extremely far apart. My reason being to reduce cross-talk and interference between the payload radios, but the by-product is an extremely low frequency of resonance, similar to a implementing a long tail on a kite. My two top payload videos showed no such action as observed in the BASE video until after burst.

However, the atmosphere is big, and there is still enough air up there to cause a rough ride for our high-altitude planes. Could be that this is a fluke phenomenon of the atmosphere in this case.

If it were me, I would try increasing the length of the tethers significantly which will greatly reduce the frequency of mechanical resonance of the string, especially important if the payloads are really light. The distance from the balloon to the parachute as well as between the payloads would all increase. 15-25 feet between each piece would be my start, depending on the number of payloads. You can also add a fair weight to the bottom end of the string, such as the infamous water bottle about 1/4 filled. The mass will help dampen the string and provide a point to follow on the way down.

--Michael
K5NOT

Quoting Mark Conner <mconner1@...>:

> Wow, that's pretty **** violent for being on the way up.....
>
> For our NSTAR video flights, we've never had anything like that happen. Our
> still cameras don't seem to show that kind of turbulence on ascent either.
>
> Normally, this level of the atmosphere is pretty benign for turbulence,
> especially for a scale affecting a balloon (a fast-moving aircraft is
> another matter) and away from any thunderstorms. How much do the payloads
> weigh? They look like they might be pretty light. Could it be something
> like vortex shedding as the balloon rises, becoming resonant with the
> pendulum period of the payloads hanging below? The vortices may hit the
> lower payloads in a rhythmic fashion, causing them to swing more and more.
>
> If you watch a helium party balloon with a light string attached to it rise,
> you can see this happen too (not the pendulum effect so much, but the

> balloon swinging rhythmically).
> Having the atmosphere itself be this violent on this small of a scale is
> pretty unusual to say the least, and to have it happen to two different
> flights on different days would lead me to focus back on the flight train
> characteristics instead of the atmosphere.
>
> 73 de Mark N9XTN
> On Wed, Nov 18, 2009 at 15:37, BASE <basedepauw@...> wrote:
>
>> Dear friends,
>>
>> Here is a second HAB flight with pre-burst chaos.
>>
>> Taylor did a flight on November 12 from Fishers, IN (see ARHAB Balloon
>> Schedule) that experienced pre-burst chaos. Burst was accomplished with one
>> of the payloads.
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>> Two videos and a set of still pictures have been posted on the web at:
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>> This is not from the flight of October 17 that Jeff Dailey posted a single
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>> Howard
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6212. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-18 23:11:13 UTC
From: BASE
Topic: 6209 Message: 6212

To Mark's question about the payload weight, I don't know the details for the November 12 flight. I know that the October 17 flight had a total payload weight of 11 pounds (just below the FAR 101 exemption).

I do have similar pods and the APRS beacon pod weighs about one pound. The camera pod with two cameras would be similar or a little more massive. There would also be a 900 MHz command pod that is somewhere around 1 and 1/2 pounds. I don't know what else flew on the last flight.

The tether line length and resonance phenomena is interesting. Typically, Taylor flies with about 10 feet between the balloon and the parachute and 8 feet intervals between all other items. For the October flight the total flight string length was about 100 feet from balloon to lowest pod.

Of course, we need to remember that Taylor has flown more than 200 times and only observed this twice. No one else has reported a similar occurrence (recalling a total of more than 500 flights). Taylor flew two balloons on October 17 (launched 10 minutes apart with similar ascent rates and payload weights) the first saw the pre-burst chaos the second didn't.

Howard

6213. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 03:12:44 UTC
From: Mike Manes
Topic: 6209 Message: 6213

Hi Howard,

Man, that's persuasive! Before the burst, I noticed several frames where the inflated balloon appeared on or below the horizon! And I agree with Mark that we've never observed that sort of chaos during ascent - although we don't carry video on many of our flights.

All that I can think of as a mechanism is a VERY slow, near stall, ascent rate passing through a very strong upper air rotor. I've never seen the latter phenomenon documented in the literature before, but I've not researched it thoroughly, either. It's possible that these videos may be some of the only observations of such a thing.

We have observed the effects of much milder and more dispersed rotors from the GPS-derived ascent rate data, but nothing close to what might actually invert a flight string.

Do you have any idea of what the ascent rate might have been during these events?

BTW, my video viewer didn't show a progress bar, so I wasn't able to drag it or pause it. The series of stills don't show the horizon, but sure show the collision and burst.

73 de Mike W5VSI
EOSS

BASE wrote:
> Dear friends,
>
> Here is a second HAB flight with pre-burst chaos.>
> Taylor did a flight on November 12 from Fishers, IN (see ARHAB Balloon Schedule) that experienced pre-burst chaos. Burst was accomplished with one of the payloads.
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> Two videos and a set of still pictures have been posted on the web at:
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>

> This is not from the flight of October 17 that Jeff Dailey posted a single frame from recently.
> Does the phenomena occur more often when the mid-stratosphere jetstream is changing?
>
> Howard
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6214. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 13:52:31 UTC
From: L. Paul Verhage
Topic: 6209 Message: 6214

My last flight of 2006 shows similar rocking. Here's a link, the video is
on the page.

http://nearsys.com/arhab/flightdata/2006/h/index.htm

On Wed, Nov 18, 2009 at 9:12 PM, Mike Manes <mrmanes@...> wrote:

> Hi Howard,
>
> Man, that's persuasive! Before the burst, I noticed several frames where
> the
> inflated balloon appeared on or below the horizon! And I agree with Mark
> that
> we've never observed that sort of chaos during ascent - although we don't
> carry video on many of our flights.
>
> All that I can think of as a mechanism is a VERY slow, near stall, ascent
> rate
> passing through a very strong upper air rotor. I've never seen the latter
> phenomenon documented in the literature before, but I've not researched it
> thoroughly, either. It's possible that these videos may be some of the
> only
> observations of such a thing.
>
> We have observed the effects of much milder and more dispersed rotors from
> the
> GPS-derived ascent rate data, but nothing close to what might actually
> invert
> a flight string.
>
> Do you have any idea of what the ascent rate might have been during these
> events?
>
> BTW, my video viewer didn't show a progress bar, so I wasn't able to drag
> it or pause it. The series of stills don't show the horizon, but sure show
> the collision and burst.
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> 73 de Mike W5VSI
> EOSS
>
> BASE wrote:
> > Dear friends,
> >
> > Here is a second HAB flight with pre-burst chaos.>

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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6215. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 15:40:17 UTC
From: mw@omsrc.com
Topic: 6209 Message: 6215

Do you have an idea about what altitude the turbulence occurred?

To me, this collection of videos do certainly demonstrate layers of CAT exist very high up, several times higher than what I personally expected.

It appears that rotors and currents flow through the upper atmosphere at times that are quite strong, without much or any indication they might be present until you hit them, truly CAT.

So when are you guys going to put a Doppler system on your balloons so you will have a warning signal that flying in that airspace could be hazardous? :)

Doug - W5BL, has been wanting me to fly an accelerometer in our flights, and this effort was shelved due to other priorities, but correlating the the ride data to altitude would be interesting and worth while data on the odd chance we run into CAT as some of these flights have.

--Michael

Quoting "L. Paul Verhage" <nearsys@...>:

> My last flight of 2006 shows similar rocking. Here's a link, the video is
> on the page.
>
> http://nearsys.com/arhab/flightdata/2006/h/index.htm
>
> On Wed, Nov 18, 2009 at 9:12 PM, Mike Manes <mrmanes@gmail.com> wrote:
>
>> Hi Howard,
>>
>> Man, that's persuasive! Before the burst, I noticed several frames where
>> the
>> inflated balloon appeared on or below the horizon! And I agree with Mark
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>> we've never observed that sort of chaos during ascent - although we don't
>> carry video on many of our flights.
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>> All that I can think of as a mechanism is a VERY slow, near stall, ascent
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>> passing through a very strong upper air rotor. I've never seen the latter
>> phenomenon documented in the literature before, but I've not researched it
>> thoroughly, either. It's possible that these videos may be some of the

>> only
>> observations of such a thing.
>>
>> We have observed the effects of much milder and more dispersed rotors from
>> the
>> GPS-derived ascent rate data, but nothing close to what might actually
>> invert
>> a flight string.
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>> Do you have any idea of what the ascent rate might have been during these
>> events?
>>
>> BTW, my video viewer didn't show a progress bar, so I wasn't able to drag
>> it or pause it. The series of stills don't show the horizon, but sure show
>> the collision and burst.
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>> 73 de Mike W5VSI
>> EOSS
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>> BASE wrote:
>> > Dear friends,
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>> > Here is a second HAB flight with pre-burst chaos.>
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>> > This is not from the flight of October 17 that Jeff Dailey posted a
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>> from recently.
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>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."

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>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
>

6216. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 16:05:52 UTC
From: Idle-Tyme
Topic: 6209 Message: 6216

One thing I noticed that probably added to this instability at high
altitude was the actual instability even at release.

Even when it was only a minute or two after launch it was crazy wild un
stable. It seemed the whole flight right from release was horribly
unstable.

Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

mw@... wrote:
> Do you have an idea about what altitude the turbulence occurred?
>
> To me, this collection of videos do certainly demonstrate layers of
> CAT exist very high up, several times higher than what I personally
> expected.
>
> It appears that rotors and currents flow through the upper atmosphere
> at times that are quite strong, without much or any indication they
> might be present until you hit them, truly CAT.
>
> So when are you guys going to put a Doppler system on your balloons so
> you will have a warning signal that flying in that airspace could be
> hazardous? :)
>
> Doug - W5BL, has been wanting me to fly an accelerometer in our
> flights, and this effort was shelved due to other priorities, but
> correlating the the ride data to altitude would be interesting and
> worth while data on the odd chance we run into CAT as some of these
> flights have.
>
> --Michael
>
>
>
> Quoting "L. Paul Verhage" <nearsys@...>:
>
>
>> My last flight of 2006 shows similar rocking. Here's a link, the video is
>> on the page.
>>
>> http://nearsys.com/arhab/flightdata/2006/h/index.htm

>>
>> On Wed, Nov 18, 2009 at 9:12 PM, Mike Manes <mrmanes@...> wrote:
>>
>>
>>> Hi Howard,
>>>
>>> Man, that's persuasive! Before the burst, I noticed several frames where
>>> the
>>> inflated balloon appeared on or below the horizon! And I agree with Mark
>>> that
>>> we've never observed that sort of chaos during ascent - although we don't
>>> carry video on many of our flights.
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>>> We have observed the effects of much milder and more dispersed rotors from
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>>> a flight string.
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>>> Do you have any idea of what the ascent rate might have been during these
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>>> BTW, my video viewer didn't show a progress bar, so I wasn't able to drag
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>>> the collision and burst.
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>>> 73 de Mike W5VSI
>>> EOSS
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>>> BASE wrote:
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>>>> Dear friends,
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.707 / Virus Database: 270.14.73/2513 - Release Date: 11/19/09 01:51:00
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6217. Another Cell Phone Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 17:32:24 UTC
From: L. Paul Verhage
Topic: 6217 Message: 6217

http://www.springvillegi.org/webpages/jkarb/stratosphere.cfm

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Onwards and Upwards,
Paul

6218. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 18:58:42 UTC
From: BASE
Topic: 6209 Message: 6218

Joe,

Please keep in mind that the video is not continuous! Jason isolated sections with the greatest turbulence. The videos begin with about 30 seconds at launch, and the spinning is typical for most of our flights. The key in the early ascent is that the radio pod remains located below the down camera and the balloon above the up camera. The system is spinning about an axis through the payload string. However, the rest of the video comes from the minute before balloon burst. The system is approximately 70,000 feet.

Having watched a lot of our videos, the instability after release damps out and is not present throughout the flight. I am confident that if we saw the hour or so of missing video we would see stable, although slowly spinning images of the ground and the balloon.

Howard

--- On Thu, 11/19/09, Idle-Tyme <nss@...> wrote:

From: Idle-Tyme <nss@...>
Subject: Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon
To: GPSL@yahoogroups.com
Date: Thursday, November 19, 2009, 11:05 AM

One thing I noticed that probably added to this instability at high
altitude was the actual instability even at release.

Even when it was only a minute or two after launch it was crazy wild un
stable. It seemed the whole flight right from release was horribly
unstable.

Joe WB9SBD

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--Michael

Quoting "L. Paul Verhage" <nearsys@gmail. com>:

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http://nearsys. com/arhab/ flightdata/ 2006/h/index. htm

On Wed, Nov 18, 2009 at 9:12 PM, Mike Manes <mrmanes@gmail. com> wrote:

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inflated balloon appeared on or below the horizon! And I agree with Mark that
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All that I can think of as a mechanism is a VERY slow, near stall, ascent rate
passing through a very strong upper air rotor. I've never seen the latter phenomenon documented in the literature before, but I've not researched it thoroughly, either. It's possible that these videos may be some of the only
observations of such a thing.

We have observed the effects of much milder and more dispersed rotors from the
GPS-derived ascent rate data, but nothing close to what might actually invert
a flight string.

Do you have any idea of what the ascent rate might have been during these events?

BTW, my video viewer didn't show a progress bar, so I wasn't able to drag it or pause it. The series of stills don't show the horizon, but sure show the collision and burst.

73 de Mike W5VSI
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BASE wrote:

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This is not from the flight of October 17 that Jeff Dailey posted a

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from recently.

Does the phenomena occur more often when the mid-stratosphere jetstream

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Howard

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
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Yahoo! Groups Links

--
Onwards and Upwards,
Paul

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Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.707 / Virus Database: 270.14.73/2513 - Release Date: 11/19/09 01:51:00

6219. Taylor CCLI Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 19:02:55 UTC
From: Jeff Dailey
Topic: 6219 Message: 6219

KB9ZNZ-6 is in the air and is going East out of Nashville.

APRS on 144.39

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6220. Re: [Ballooning] Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 19:06:50 UTC
From: BASE
Topic: 6209 Message: 6220

Mike,

I don't know the ascent rate for the November flight but suspect that it was similar to the October flight at about 1200 - 1500 feet/minute.

Since my son participated in the October flight, and had accelerometer data for parts of the ascent, there were two times where the acceleration increased dramatically. These events happened when the forward velocity of the balloon suddenly (within 30 seconds) increased from a slow jog (about 5-6 miles/hour) to highway speeds (65 mph +). The second event happened at about 53,000 feet and resulted in a loss of signal from the accelerometer. The instability that burst the balloon occurred above 80,000 feet

There was no sign of a near stall in the vertical ascent data. But the winds did shift dramatically.

Howard

--- On Wed, 11/18/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: [Ballooning] Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon
To: GPSL@yahoogroups.com
Cc: "Ballooning Group" <ballooning@yahoogroups.com>, "Russ Chadwick KB0TVJ NOAA" <Russell.B.Chadwick@noaa.gov>, "Randy Collander NOAA" <Randall.S.Collander@...>
Date: Wednesday, November 18, 2009, 10:12 PM

Hi Howard,

Man, that's persuasive! Before the burst, I noticed several frames where the

inflated balloon appeared on or below the horizon! And I agree with Mark that

we've never observed that sort of chaos during ascent - although we don't

carry video on many of our flights.

All that I can think of as a mechanism is a VERY slow, near stall, ascent rate

passing through a very strong upper air rotor. I've never seen the latter

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BTW, my video viewer didn't show a progress bar, so I wasn't able to drag

it or pause it. The series of stills don't show the horizon, but sure show

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BASE wrote:

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> Does the phenomena occur more often when the mid-stratosphere jetstream is changing?

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> Howard

>

--

Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

6221. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 19:13:49 UTC
From: Idle-Tyme
Topic: 6209 Message: 6221

ahh Ok,

I just though that it was crazy even right at liftoff, none of ours
ever do that.
http://www.youtube.com/watch?v=XXfNJoLLpI8

Joe

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

BASE wrote:
>
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> Joe,
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> Please keep in mind that the video is not continuous! Jason isolated
> sections with the greatest turbulence. The videos begin with about 30
> seconds at launch, and the spinning is typical for most of our
> flights. The key in the early ascent is that the radio pod remains
> located below the down camera and the balloon above the up camera.
> The system is spinning about an axis through the payload string.
> However, the rest of the video comes from the minute before balloon
> burst. The system is approximately 70,000 feet.
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> Having watched a lot of our videos, the instability after release
> damps out and is not present throughout the flight. I am confident
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> although slowly spinning images of the ground and the balloon.
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> Howard
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> --- On *Thu, 11/19/09, Idle-Tyme /<nss@...>/* wrote:
>
>
> From: Idle-Tyme <nss@...>
> Subject: Re: [GPSL] Another flight with pre-burst chaos and pod
> breaking the balloon
> To: GPSL@yahoogroups.com
> Date: Thursday, November 19, 2009, 11:05 AM
>
>
>
> One thing I noticed that probably added to this instability at
> high altitude was the actual instability even at release.

>
> Even when it was only a minute or two after launch it was crazy
> wild un stable. It seemed the whole flight right from release was
> horribly unstable.
>
> Joe WB9SBD
> Near Space Sciences
>
>
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> mw@... wrote:
>> Do you have an idea about what altitude the turbulence occurred?
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>> To me, this collection of videos do certainly demonstrate layers of
>> CAT exist very high up, several times higher than what I personally
>> expected.
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>> It appears that rotors and currents flow through the upper atmosphere
>> at times that are quite strong, without much or any indication they
>> might be present until you hit them, truly CAT.
>>
>> So when are you guys going to put a Doppler system on your balloons so
>> you will have a warning signal that flying in that airspace could be
>> hazardous? :)
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>> Doug - W5BL, has been wanting me to fly an accelerometer in our
>> flights, and this effort was shelved due to other priorities, but
>> correlating the the ride data to altitude would be interesting and
>> worth while data on the odd chance we run into CAT as some of these
>> flights have.
>>
>> --Michael
>>
>>
>>
>> Quoting "L. Paul
>> Verhage" <nearsys@gmail. com>:
>>
>>
>>> My last flight of 2006 shows similar rocking. Here's a link, the video is
>>> on the page.
>>>
>>> http://nearsys. com/arhab/ flightdata/ 2006/h/index. htm
>>>
>>> On Wed, Nov 18, 2009 at 9:12 PM, Mike Manes <mrmanes@gmail. com> wrote:
>>>

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>>>> Hi Howard,
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>>>> Man, that's persuasive! Before the burst, I noticed several frames where
>>>> the
>>>> inflated balloon appeared on or below the horizon! And I agree with Mark
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>>>> GPS-derived ascent rate data, but nothing close to what might actually
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>>>> a flight string.
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>>>> Do you have any idea of what the ascent rate might have been during these
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>>>> BTW,
>>>> my video viewer didn't show a progress bar, so I wasn't able to drag
>>>> it or pause it. The series of stills don't show the horizon, but sure show
>>>> the collision and burst.
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>>>> 73 de Mike W5VSI
>>>> EOSS
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>>>> BASE wrote:
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>>>> Yahoo! Groups Links
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>> Checked by AVG - www.avg.com
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6222. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 19:37:48 UTC
From: BASE
Topic: 6209 Message: 6222

Joe,

I think your slow release with the line and the payload system perfectly still plus the inertia arms makes a big difference.

Howard

--- On Thu, 11/19/09, Idle-Tyme <nss@...> wrote:

From: Idle-Tyme <nss@...>
Subject: Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon
To: GPSL@yahoogroups.com
Date: Thursday, November 19, 2009, 2:13 PM

ahh Ok,

I just though that it was crazy even right at liftoff, none of ours
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6223. Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 20:55:39 UTC
From: BASE
Topic: 6209 Message: 6223

Dear Mike,

I dug a little deeper and found the APRS record for the flight. The beacon was KB9ZNZ-2 (as noted on the ARHAB website). It flew again on November 13, and I had to get into aprs.fi to find the path for November 12. The ascent rate, calculated as a single average from 2400 feet to 62200 feet came out at 1700 ft/min. The last nine data points on ascent are above 2000 feet per minute. [The data shows a inverted "Hanks knee", thanks Nick:)]

Here are the ascent reports

2009-11-12 18:47:30z 16 MPH 290° alt 2480 ft
2009-11-12 18:48:30z 21 MPH 254° alt 3795 ft
2009-11-12 18:49:30z 14 MPH 239° alt 5157 ft
2009-11-12 18:50:30z 35 MPH 243° alt 6548 ft
2009-11-12 18:51:29z 15 MPH 330° alt 7994 ft
2009-11-12 18:52:29z 23 MPH 262° alt 9464 ft
2009-11-12 18:53:29z 30 MPH 205° alt 10878 ft
2009-11-12 18:54:29z 23 MPH 216° alt 12292 ft
2009-11-12 18:55:28z 37 MPH 148° alt 13736 ft
2009-11-12 18:56:28z 25 MPH 208° alt 15166 ft
2009-11-12 18:57:28z 19 MPH 176° alt 16609 ft
missing minute
2009-11-12 18:59:27z 19 MPH 118° alt 19647 ft
2009-11-12 19:00:27z 6 MPH 194° alt 21199 ft
2009-11-12 19:01:27z 19 MPH 80° alt 22764 ft
2009-11-12 19:02:26z 30 MPH 147° alt 24362 ft
2009-11-12 19:03:26z 37 MPH 175° alt 25979 ft
missing minute or perhaps next time is off
2009-11-12 19:05:13z 46 MPH 138° alt 27577 ft ??time stamp??
2009-11-12 19:05:26z 35 MPH 153° alt 29197 ft
2009-11-12 19:06:25z 62 MPH 168° alt 30900 ft
missing minute
2009-11-12 19:08:25z 70 MPH 164° alt 34263 ft
2009-11-12 19:09:25z 45 MPH 165° alt 35952 ft
missing minute
2009-11-12 19:11:24z 35 MPH 137° alt 39584 ft
2009-11-12 19:12:24z 48 MPH 151° alt 41588 ft
2009-11-12 19:13:24z 58 MPH 124° alt 43452 ft
2009-11-12 19:14:24z 50 MPH 142° alt 45345 ft
2009-11-12 19:15:23z 38 MPH 99° alt 47333 ft
2009-11-12 19:16:23z 70 MPH 124° alt 49321 ft
missing minute
2009-11-12 19:18:23z 14 MPH 156° alt 53582 ft
missing minute

2009-11-12 19:20:22z 6 MPH 89° alt 57936 ft

2009-11-12 19:21:22z 46 MPH 125° alt 60032 ft

2009-11-12 19:22:23z 27 MPH 82° alt 62158 ft

Here is another case of going from 6 mph to 46 mph in just one minute (similar to what my son observed in October).

Obviously, the more information we have, the more we can learn.

Howard

--- On Wed, 11/18/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@gmail.com>
Subject: Re: [GPSL] Another flight with pre-burst chaos and pod breaking the balloon
To: GPSL@yahoogroups.com
Cc: "Ballooning Group" <ballooning@yahoogroups.com>, "Russ Chadwick KB0TVJ NOAA" <Russell.B.Chadwick@noaa.gov>, "Randy Collander NOAA" <Randall.S.Collander@...>
Date: Wednesday, November 18, 2009, 10:12 PM

Hi Howard,

Man, that's persuasive! Before the burst, I noticed several frames where the

inflated balloon appeared on or below the horizon! And I agree with Mark that

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carry video on many of our flights.

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> Howard

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

6224. CCLI flight in Tennessee

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 21:34:38 UTC
From: Jeff Dailey
Topic: 6224 Message: 6224

The recovery team is within 200 yards of the payloads.

Yes they did get clearance from the airport to fly.

APRS 144.39 KB9ZNZ-6

I also noticed on the schedule that the flight on 11-14-2009 that it was cancelled this is incorrect the flight did fly and the callsign was KB9ZNZ-14..

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6225. Re: [GPSL] CCLI flight in Tennessee

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 22:06:12 UTC
From: Keith Kaiser
Topic: 6224 Message: 6225

Jeff,

I put the flight of the 14th back on the page but since there is no APRS data for the flight you said it would be... kb9znz-10, how was I to know that? I've changed the flight call also and now of course if shows up.

Guys,
A lot of the announcement page is automated. This means if you don't give me good/accurate information then things may go wrong... as is demonstrated here.

Thanks....

Sorry Jeff.

On Nov 19, 2009, at 3:34 PM, Jeff Dailey wrote:

> The recovery team is within 200 yards of the payloads.
>
> Yes they did get clearance from the airport to fly.
>
> APRS 144.39 KB9ZNZ-6
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6226. Re: [GPSL] CCLI flight in Tennessee

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-19 23:29:10 UTC
From: Keith Kaiser
Topic: 6224 Message: 6226

Also, please note, since I don't have a launch site for the KB9ZNZ-6 flight I don't have links to either the launch site or for that matter the flight track via aprs.fi.

This flight too had the wrong call sign on it. I'm doing the best I can but I have no way to guess what call sign you are going to use unless you tell me.

What were the coords of the launch?

On Nov 19, 2009, at 3:34 PM, Jeff Dailey wrote:

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>
> Yes they did get clearance from the airport to fly.
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> jfdailey@taylor.edu
>
>

6227. Taylor today 11-20-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-20 13:03:28 UTC
From: Jeff Dailey
Topic: 6227 Message: 6227

[Body unavailable in the source archive]

6228. Taylor launch today 11-20-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-20 13:10:08 UTC
From: Jeff Dailey
Topic: 6228 Message: 6228

Taylor University antenna test launch.

Flight #: 217
Flight ID: ANT100
Date: 11-20-2009
Time: 10:00AM
Launch Site: Taylor University
LAT: N40.45638
LON: W085.49488

APRS: 144.390 KB9ZNZ-11

Thank you

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
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236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6229. Re: [GPSL] Taylor launch today 11-20-2009

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-20 20:21:40 UTC
From: Keith Kaiser
Topic: 6228 Message: 6229

I see the flight is kb9znz-2 not -11 as reported.

On Nov 20, 2009, at 7:10 AM, Jeff Dailey wrote:

> Taylor University antenna test launch.
>
> Flight #: 217
> Flight ID: ANT100
> Date: 11-20-2009
> Time: 10:00AM
> Launch Site: Taylor University
> LAT: N40.45638
> LON: W085.49488
>
> APRS: 144.390 KB9ZNZ-11
>
> Thank you
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
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> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
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>

6230. Weather balloons no longer a crazy idea for rural coverage • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-25 03:47:08 UTC
From: Mike Manes
Topic: 6230 Message: 6230

Looks like Space Data is now moving into flying WiFi sites as well.

http://www.theregister.co.uk/2009/11/23/space_data_weather_balloon_base_station/

New term: "stratellite", a high altitude balloon payload that acts like
a satellite. Gotta love it!

73 de Mike W5VSI
CTO EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6231. Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-25 19:08:41 UTC
From: Pete Lilja
Topic: 6231 Message: 6231

I've been discussing with friends the best way to max. altitude with a HAB. Some think a 3000 gram balloon with enough lift to carry a minimal payload will go highest. My gut says that's not *necessarily* the case - that a light payload carried by a physically smaller balloon will go higher as you don't have to carry the 'extra' weight of the balloon itself.

What do the experts think?

Pete
KC0GPB

6232. Re: [GPSL] Weather balloons no longer a crazy idea f or rural coverage • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-25 21:08:49 UTC
From: L. Paul Verhage
Topic: 6230 Message: 6232

I heard the term used in the Sept 2006 at the U of IA confernce in Ames. If I hadn't learned the term near spacecraft, I woul dhva eliked to use stratollite.

Paul

On Tue, Nov 24, 2009 at 9:47 PM, Mike Manes <mrmanes@...> wrote:

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Onwards and Upwards,
Paul

6233. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-25 21:13:15 UTC
From: L. Paul Verhage
Topic: 6231 Message: 6233

The more the balloon can expand, the higher it can go. Be aware there mst be enough positive lift to keep the balloon rising. In either case, I'd connect a cutdown to the balloon to trigger some three hours into the mission, just in case.

Paul

On Wed, Nov 25, 2009 at 1:08 PM, Pete Lilja <plilja@...> wrote:

>
>
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> HAB. Some think a 3000 gram balloon with enough lift to carry a minimal
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> What do the experts think?
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> Pete
> KC0GPB
>
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>

--
Onwards and Upwards,
Paul

6234. HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 01:32:33 UTC
From: Pete Lilja
Topic: 6234 Message: 6234

KC0GPB-11 flew Monday, 11/23/09 to an altitude of 100,000'. We again had antenna problems with the GPS connected HT but did recvover the payload after a long search by RDFing a separate, back-up beacon.

We got some stunning images from the onboard camera I'd like to share with this slide show:

http://s33.photobucket.com/albums/d94/bigheadpete/NIXHAB-3/?albumview=slideshow<http://s33.photobucket.com/albums/d94/bigheadpete/NIXHAB-3/?albumview=slideshow>

Pete
KC0GPB

6235. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 01:46:12 UTC
From: Mike Manes
Topic: 6231 Message: 6235

Hi Pete,

Going higher in altitude means you must displace a larger volume of ambient air. And a big balloon will do that better than a small one, before bursting, that is. As a rule of thumb, air density drops by a factor of 10 every 50K' in altitude. So to hit 100K', the balloon volume must expand 100x from its sea level value, and 1000x to hit 150K'.

Yes, it's a conundrum, and the solution is to come up with a balloon envelope material that's lighter than fully-distended latex or 0.25 mil polyethylene. Like noweightum? :=}. Short of that, keep the total weight to a minimum, and about the only areas we in ARHAB can do that is in the payload and parachute. Like the guys from Cornell (?) did to make close to 130K' with a 3000 and a 1/4 lb payload.

The unmanned balloon altitude record was set at about 170K' in the early '60's by USAF with a huge plastic ZP, probably carrying no more than a radar reflector.

73 de Mike W5VSI, EOSS

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6236. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 02:04:11 UTC
From: wb8elk@aol.com
Topic: 6231 Message: 6236

Pete and all....although some folks have gotten pretty high and set records with 1200 and 1500 gram balloons....I would also agree that a 3000 gram with a very lightweight payload is the best way to go....I have a couple spare Kaysam 3000 gram balloons left if anyone is interested.

My pinhole vent experiments would also allow you to float at peak altitudes until the UV radiation finally gets to the envelope....although I'd recommend a slow ascent rate to allow the excess pressure to vent at peak altitude. Even if it does burst at peak altitude, you'll get a bit higher with a pinhole leak in it unless the vent hole is too big and then it'll level off at a lower altitude and then come back down intact.

My last pinhole floater parked itself at 107,000 feet all night long over Tennessee (turnaround time in late April). Basically I put a PVC pipe in the balloon nozzle with a 1/16" hole in the endcap to act as a continuous vent....that works with a 1500 gram balloon...you'll have to experiment with the hole diameter for other size balloons. In flight tests, it floated successfully if the ascent rate going up was under 500 ft/min...over 500 ft/min it still went high but burst.....best to launch this kind of experiment about 2 hours before sunset. By the way, two 1/16" vent holes caused the 1500 gram balloon to level off at 28,000 feet and then come right back down at about 300 to 600 ft/min descent rate.

The UK group has reproduced this effectively recently.

I used 1" diameter electrical conduit pipe from Lowes by the way.

- Bill WB8ELK
www.wb8elk.com

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Sent: Wed, Nov 25, 2009 7:46 pm
Subject: Re: [GPSL] Max Altiitude - How To?

Hi Pete,

Going higher in altitude means you must displace a larger volume of ambient air. And a big balloon will do that better than a small one, before bursting, that is. As a rule of thumb, air density drops by a factor of 10 every 50K' in altitude. So to hit 100K', the balloon volume must expand 100x from its sea level value, and 1000x to hit 150K'.

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6237. Re: [GPSL] HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 02:17:11 UTC
From: Mike Manes
Topic: 6234 Message: 6237

Great work, Pete. Nothing like a backup beacon to keep Murphy at bay!

We get some isolation between the GPS antenna and the radio by extending
the flexible 2m J-pole coax a few feet out the bottom of the payload and using
Al foil shielding between the GPS rcvr and radio inside the box.

73 de Mike W5VSI, EOSS

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6238. Re: [GPSL] HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 02:19:26 UTC
From: Pete Lilja
Topic: 6234 Message: 6238

That was silly of me to have forgotten to include that information. We flew
a Canon A570 Powershot using the CHDK script lifted from the EOSS web site.
We did experience under-exposure and over-exposure at the points in the
flight shich you can obviously guess (above and below the clouds).

Pete

On Wed, Nov 25, 2009 at 7:44 PM, <wb8elk@...> wrote:

> Pete....nice photos...what camera are you using and what settings did you
> use?
>
> - Bill WB8ELK
>
> www.wb8elk.com
>
> I've got some more Flip Ultra video footage I'll be posting on YouTube
> soon....that camera works well but wish it had more than 2 hours record
> time...this time I just managed to get the entire flight on it since we had
> a fast ascent rate.
>
>
>
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>
> -----Original Message-----
> From: Pete Lilja <plilja@...>
> To: GPSL@yahoogroups.com; Balloon_Sked@yahoogroups.com
> Sent: Wed, Nov 25, 2009 7:32 pm
> Subject: [GPSL] HAB Pix
>
>
> KC0GPB-11 flew Monday, 11/23/09 to an altitude of 100,000'. We again
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> Pete
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6239. Re: [GPSL] HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 02:40:06 UTC
From: Pete Lilja
Topic: 6234 Message: 6239

Thanks, Mike.

Our antenna problem was mechanical. We used a Slim Jim J-pole with the coax connection outside the payload suspended by a zip-tied cord. That looks all fine and dandy on the ground and seems adequate. What I think happened is that the window wire antenna hanging below the box is helical and that simply screws itself tight as the balloon ascended to 100K'. The PBC must have been enough to snap the coax connection as we lost all GPS packets at apogee.

The RDF beacon did save the day to be sure. We drove about 275 miles searching and listening with no luck. We then gave up and went home when it got dark. Both my balloon partner and I then looked online at the aprs.fiinfo / map and made some mental notes about where we had 'looked' and
listened and thought we'd better check one area we didn't drive but still seemed an obvious place for it to have landed. Sure enough, after just a few minutes of driving we heard the RDF beacon and were able to foxhunt our way through a picked corn field in the cold and dark using flashlights and past experience RDFing to find the payload intact almost 12 hours after release. We did keep Murphy at bay using the old fashioned technique of attenuating the signal to the antenna-less HT using a human body and working our way toward the box. From a failed GPS signal to using a human body - this recovery used all of our radio skills.

I am embarrassed to admit it publicly but what the heck - I dunno any of you! - the helical twisting and coax break was a case of not learning from my mistakes. We had the same problem on our last flight and I simply failed to follow through on making corrections. We had moved our launch date up one day and a case of Go Fever allowed me to forget to make the change to the antenna mounting. Next time...

Pete

On Wed, Nov 25, 2009 at 8:17 PM, Mike Manes <mrmanes@gmail.com> wrote:

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> Great work, Pete. Nothing like a backup beacon to keep Murphy at bay!
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> We get some isolation between the GPS antenna and the radio by extending
> the flexible 2m J-pole coax a few feet out the bottom of the payload and
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> 73 de Mike W5VSI, EOSS

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> "Things should be made as simple as possible, but not more so."
> A. Einstein
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6240. Re: [GPSL] HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 03:40:48 UTC
From: Mike Manes
Topic: 6234 Message: 6240

Hi Pete,

Hey, nice recovery, man! Plus some pretty good foxhunting by a single team, to boot!

We used to suffer from unscrewing BNCs until I started soldering wire tangs onto the male shell that hooks onto a safety line secured to the payload enclosure. It works excellently unless someone pulls the safety line loose before launch :={.

Another trick that we learned (over & over, it seems) is make SURE there's enough slack in the copper to accommodate up to 150% stretch in the woven nylon to the yield point. We strap the J-pole to the line in 2 or 3 places to keep it close to vertical in flight.

73 de Mike W5VSI

Pete Lilja wrote:
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> Thanks, Mike.
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> Our antenna problem was mechanical. We used a Slim Jim J-pole with the
> coax connection outside the payload suspended by a zip-tied cord. That
> looks all fine and dandy on the ground and seems adequate. What I think
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6241. Re: [SPAM]Re: [GPSL] HAB Pix

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 14:58:36 UTC
From: Michael Willett
Topic: 6234 Message: 6241

You should be embarrassed!... None of us have ever done that before. :)

At the GPSL this year, I totally lost it with our parachute implementation. This was a discovery flight to sense internal pressure characteristics of the balloon, and so our parachute was under and not over the payload. The parachute was supposed to have a rubber band and a weight to hold the chute closed through the ascent, whereas the rubber band would give in the descent due to the force and speed of the payload dropping, and the weight would help keep the parachute closed all the way up - but not effect the descent effectiveness.

Both the weight and the rubber band were still in the truck --- while we watched the parachute open seconds after liftoff... Arrggg... We had a 3+ hour ascent. To top it all off, I tied the chute too close to the payload, so when we hit burst, the payload landed in the chute and we had a 30-45 minute return from about 100,000 feet. :)

Oh yah, and I even had a check list with all those missed steps on it. I really do hate staying up until 3AM working on last minute issues with payloads... :)

--Michael
K5NOT

> I am embarrassed to admit it publicly but what the heck - I dunno any
> of you! - the helical twisting and coax break was a case of not
> learning from my mistakes. We had the same problem on our last flight
> and I simply failed to follow through on making corrections. We had
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> forget to make the change to the antenna mounting. Next time...

6242. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 16:22:44 UTC
From: L. Paul Verhage
Topic: 6231 Message: 6242

If there will be a high altitude attempt and room for a payload, I would be interested in sending up a small BalloonSat.

Paul

On Wed, Nov 25, 2009 at 8:04 PM, <wb8elk@...> wrote:

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> Pete and all....although some folks have gotten pretty high and set
> records with 1200 and 1500 gram balloons....I would also agree that a 3000
> gram with a very lightweight payload is the best way to go....I have
> a couple spare Kaysam 3000 gram balloons left if anyone is interested.
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> My pinhole vent experiments would also allow you to float at peak altitudes
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> My last pinhole floater parked itself at 107,000 feet all night long over
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> The UK group has reproduced this effectively recently.
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> I used 1" diameter electrical conduit pipe from Lowes by the way.
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> - Bill WB8ELK
> www.wb8elk.com
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> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Nov 25, 2009 7:46 pm
> Subject: Re: [GPSL] Max Altiitude - How To?
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> Hi Pete,
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Onwards and Upwards,
Paul

6243. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 17:12:52 UTC
From: Pete Lilja
Topic: 6231 Message: 6243

While I would certainly entertain the idea of a 'guest' experiment onboard a flight I am thinking my friends and I have a lot to learn before a record attempt. We've flown just 3 HABs and all have had substantial issues despite being successful in the end.

The one of us pushing this idea tends to have more ideas than actual practice. Nothing wrong with having those guys in a group - in fact they can be beneficial. It's just that I'm not willing to risk my equipment on a mission like that without learning a whole lot more about HABing first!

Pete
KC0GPB

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Thursday, November 26, 2009 10:22 AM
Subject: Re: [GPSL] Max Altiitude - How To?

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www.wb8elk.com

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To: GPSL@yahoogroups.com
Sent: Wed, Nov 25, 2009 7:46 pm
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Mike Manes mrmanes@... Tel: 303-979-4899

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Onwards and Upwards,
Paul

6244. Re: [GPSL] Max Altiitude - How To?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-26 17:58:52 UTC
From: James Coxon
Topic: 6231 Message: 6244

Hey Pete,
Another tip would be taking really good care of the balloon you are using - make sure that it is as new as possible and has been exposed to as little light as possible, don't get it out of its sealed bag until you are ready to inflate. Also take care when handling it, its been suggested that you should wear gloves to avoid getting an oil from your skin on the balloon. For a record attempt its the little things that will get you that little bit higher!

James

http://www.pegasushabproject.org.uk

2009/11/26 Pete Lilja <plilja@...>

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> KC0GPB
>
>
> ----- Original Message -----
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thursday, November 26, 2009 10:22 AM
> *Subject:* Re: [GPSL] Max Altiitude - How To?
>
>
>
>
> If there will be a high altitude attempt and room for a payload, I would be
> interested in sending up a small BalloonSat.
>
> Paul
>
> On Wed, Nov 25, 2009 at 8:04 PM, <wb8elk@...> wrote:
>

>>
>>
>> Pete and all....although some folks have gotten pretty high and set
>> records with 1200 and 1500 gram balloons....I would also agree that a 3000
>> gram with a very lightweight payload is the best way to go....I have
>> a couple spare Kaysam 3000 gram balloons left if anyone is interested.
>>
>> My pinhole vent experiments would also allow you to float at peak
>> altitudes until the UV radiation finally gets to the envelope....although
>> I'd recommend a slow ascent rate to allow the excess pressure to vent at
>> peak altitude. Even if it does burst at peak altitude, you'll get a bit
>> higher with a pinhole leak in it unless the vent hole is too big and then
>> it'll level off at a lower altitude and then come back down intact.
>>
>> My last pinhole floater parked itself at 107,000 feet all night long over
>> Tennessee (turnaround time in late April). Basically I put a PVC pipe in the
>> balloon nozzle with a 1/16" hole in the endcap to act as a continuous
>> vent....that works with a 1500 gram balloon...you'll have to experiment with
>> the hole diameter for other size balloons. In flight tests, it
>> floated successfully if the ascent rate going up was under 500 ft/min...over
>> 500 ft/min it still went high but burst.....best to launch this kind of
>> experiment about 2 hours before sunset. By the way, two 1/16" vent holes
>> caused the 1500 gram balloon to level off at 28,000 feet and then come right
>> back down at about 300 to 600 ft/min descent rate.
>>
>> The UK group has reproduced this effectively recently.
>>
>> I used 1" diameter electrical conduit pipe from Lowes by the way.
>>
>> - Bill WB8ELK
>> www.wb8elk.com
>>
>>
>> -----Original Message-----
>> From: Mike Manes <mrmanes@...>
>> To: GPSL@yahoogroups.com
>> Sent: Wed, Nov 25, 2009 7:46 pm
>> Subject: Re: [GPSL] Max Altiitude - How To?
>>
>>
>> Hi Pete,
>>
>> Going higher in altitude means you must displace a larger volume of
>> ambient
>> air. And a big balloon will do that better than a small one, before
>> bursting,
>> that is. As a rule of thumb, air density drops by a factor of 10 every
>> 50K'
>> in altitude. So to hit 100K', the balloon volume must expand 100x from its
>> sea level value, and 1000x to hit 150K'.

>>
>> Yes, it's a conundrum, and the solution is to come up with a balloon
>> envelope material that's lighter than fully-distended latex or 0.25 mil
>> polyethylene. Like noweightum? :=}. Short of that, keep the total weight
>> to a minimum, and about the only areas we in ARHAB can do that is in the
>> payload and parachute. Like the guys from Cornell (?) did to make close
>> to 130K' with a 3000 and a 1/4 lb payload.
>>
>> The unmanned balloon altitude record was set at about 170K' in the early
>> '60's
>> by USAF with a huge plastic ZP, probably carrying no more than a radar
>> reflector.
>>
>> 73 de Mike W5VSI, EOSS
>>
>> Pete Lilja wrote:
>> >
>> >
>> > I've been discussing with friends the best way to max. altitude with a
>> > HAB. Some think a 3000 gram balloon with enough lift to carry a minimal
>> > payload will go highest. My gut says that's not /necessarily/ the case
>> > - that a light payload carried by a physically smaller balloon will go
>> > higher as you don't have to carry the 'extra' weight of the balloon
>> itself.
>> >
>> > What do the experts think?
>> >
>> > Pete
>> > KC0GPB
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6245. Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-27 00:12:44 UTC
From: Pete Lilja
Topic: 6245 Message: 6245

A few months ago Mike Manes described and sent some photos of his design for a balloon nozzle fill plug made from PVC plumbing pieces. I made a couple last week and used one on our most recent HAB flight. It worked beautifully for filling, sealing and attaching the 1200g balloon and also for checking adequate lift.

Here's a link to a photo of what we used:
http://s33.photobucket.com/albums/d94/bigheadpete/?action=view¤t=IMG_2217.jpg

Since our flight team consisted of only two people and four hands on the last two flight this set-up made things much, much easier for us.

Thanks for the idea, Mike. This is too good not to share.

Pete
KC0GPB
http://nixhab.com/

6246. Re: [GPSL] Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-28 02:42:38 UTC
From: Mike Manes
Topic: 6245 Message: 6246

Thanks, Pete, but the PVC nozzle idea was conceived by EOSS's Balloonmeister Emeritus, Merle McCaslin, K0YUK. I just reduced it to practice.

BTW, what's the make & model of the PVC reducer that you used? Not sure any off-the-shelf fitting would have adequate wall thickness to accommodate that groove.

73 de Mike W5VSI
CTO EOSS

Pete Lilja wrote:
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> A few months ago Mike Manes described and sent some photos of his design
> for a balloon nozzle fill plug made from PVC plumbing pieces. I made a
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> Thanks for the idea, Mike. This is too good not to share.
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> http://nixhab.com/
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6247. Re: [GPSL] Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-28 04:23:12 UTC
From: Pete Lilja
Topic: 6245 Message: 6247

I stand corrected.

I agree - the groove is massive. I bought the fitting at my local Ace Hardware store. They call is a 1" to 1/2" bushing with internal threads and a slip fit for the 1" pipe side. The coding on the back edge says 438-130 CHARLOTTE D-2466. These particular fill plugs were sized for a 1200 gram Kaymont balloon nozzle. The balloon's nozzle fits over it without too much stretch. The max OD measures 1.3165" and the turned section was reduced to .97" and gives plenty of room for a 13/64" hole for the nylon suspension line hole. A zip-tie around the nozzle in the groove holds fast.

Until looking for pieces to make these fill plugs I never knew how much design variation there is amongst so many different manufacturers of PVC plumbing parts.

Pete
KC0GPB

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Cc: Merle McCaslin K0YUK ; Larry Noble N0NDM
Sent: Friday, November 27, 2009 8:42 PM
Subject: Re: [GPSL] Mike's Fill Nozzle

Thanks, Pete, but the PVC nozzle idea was conceived by EOSS's Balloonmeister Emeritus, Merle McCaslin, K0YUK. I just reduced it to practice.

BTW, what's the make & model of the PVC reducer that you used? Not sure any off-the-shelf fitting would have adequate wall thickness to accommodate that groove.

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A. Einstein

6248. Re: [GPSL] Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-28 04:56:29 UTC
From: Mike Manes
Topic: 6245 Message: 6248

Hi Pete,

Thanks! D-2466 is an ASTM spec, and 438-130 is the Spears P/N for a 1" PVC to 1/2" NPT-F fitting - same series as the one we use for 3000's, p/n 438-209, 1 1/2" PVC to 1/2" NPT-F. Nice to know that Ace carries it, and that you've already flight qualified it!

I'd think that 1/8" holes would support a double loop of 250# woven nylon line - plenty good for any load that a 1200 can haul up.

And I'd also think that the zip tie wouldn't have to tensioned to its limit to get the job done - just so long as its ID is less than the adaptor OD + 2 latex neck wall thicknesses.

Reckon I've got a trip to Ace and some work in the shop to do.

tnx es 73 de Mike W5VSI

Pete Lilja wrote:
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>
> I stand corrected.
>
> I agree - the groove is massive. I bought the fitting at my local Ace
> Hardware store. They call is a 1" to 1/2" bushing with internal
> threads and a slip fit for the 1" pipe side. The coding on the back
> edge says 438-130 CHARLOTTE D-2466. These particular fill plugs were
> sized for a 1200 gram Kaymont balloon nozzle. The balloon's nozzle fits
> over it without too much stretch. The max OD measures 1.3165" and the
> turned section was reduced to .97" and gives plenty of room for a 13/64"
> hole for the nylon suspension line hole. A zip-tie around the nozzle in
> the groove holds fast.
>
> Until looking for pieces to make these fill plugs I never knew how much
> design variation there is amongst so many different manufacturers of PVC
> plumbing parts.
>
> Pete
> KC0GPB
>
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Merle McCaslin K0YUK <mailto:mmccaslin@...> ; Larry Noble
> N0NDM <mailto:n0ndm@...>

> *Sent:* Friday, November 27, 2009 8:42 PM
> *Subject:* Re: [GPSL] Mike's Fill Nozzle
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> Balloonmeister
> Emeritus, Merle McCaslin, K0YUK. I just reduced it to practice.
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> BTW, what's the make & model of the PVC reducer that you used? Not
> sure any off-the-shelf fitting would have adequate wall thickness to
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6249. Re: [GPSL] Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-28 12:56:25 UTC
From: Pete Lilja
Topic: 6245 Message: 6249

That is good to know. I didn't realize it was your recommended brand of Spears. Sometime you just get lucky, I guess. And that Ace hardware is the closest retail store to my house so I frequent it often.

I suspect you're right on the zip-tie. We just pulled it snug and clipped off the tail. It wasn't going anywhere. I'd also guess you're right about the nylon cord. What I used was from a package of cord I had on hand. A smaller diameter would be easier to install and work around.

This set-up worked so well for us I can't imagine not using them on future flights. It allows a handhold and an easy way to maintain a safety line, a place to attach to check lift, a place to attach the payload and an easy method to plug the nozzle. With us not using a cut-down device it is reusable. All around it is a simple design that makes releasing a balloon easier without much of a weight penalty.

Pete

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Cc: Larry Noble N0NDM
Sent: Friday, November 27, 2009 10:56 PM
Subject: Re: [GPSL] Mike's Fill Nozzle

Hi Pete,

Thanks! D-2466 is an ASTM spec, and 438-130 is the Spears P/N for a 1" PVC to 1/2" NPT-F fitting - same series as the one we use for 3000's, p/n 438-209, 1 1/2" PVC to 1/2" NPT-F. Nice to know that Ace carries it, and that you've already flight qualified it!

I'd think that 1/8" holes would support a double loop of 250# woven nylon line - plenty good for any load that a 1200 can haul up.

And I'd also think that the zip tie wouldn't have to tensioned to its limit to get the job done - just so long as its ID is less than the adaptor OD + 2 latex neck wall thicknesses.

Reckon I've got a trip to Ace and some work in the shop to do.

tnx es 73 de Mike W5VSI

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> plumbing parts.
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> Pete
> KC0GPB
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> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Merle McCaslin K0YUK <mailto:mmccaslin@...> ; Larry Noble
> N0NDM <mailto:n0ndm@...>
> *Sent:* Friday, November 27, 2009 8:42 PM
> *Subject:* Re: [GPSL] Mike's Fill Nozzle
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> Thanks, Pete, but the PVC nozzle idea was conceived by EOSS's
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> BTW, what's the make & model of the PVC reducer that you used? Not
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6250. Re: [GPSL] Mike's Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-29 02:37:01 UTC
From: Mike Manes
Topic: 6245 Message: 6250

Hi Pete,

I've looked at several other brands of PVC reducers of the same size, and none of them appeared to have thick enough walls to take an 0.05" deep groove without significant weakening. And I kinda like that conical outlet for the fill gas - looks like a rocket nozzle! See how aberrant a dumb ol' EE's thinking is when it comes to machinery :=P.

73 de Mike W5VSI

Pete Lilja wrote:
>
>
> That is good to know. I didn't realize it was your recommended brand of
> Spears. Sometime you just get lucky, I guess. And that Ace hardware is
> the closest retail store to my house so I frequent it often.
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> I suspect you're right on the zip-tie. We just pulled it snug and
> clipped off the tail. It wasn't going anywhere. I'd also guess you're
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> This set-up worked so well for us I can't imagine not using them on
> future flights. It allows a handhold and an easy way to maintain a
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> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Larry Noble N0NDM <mailto:n0ndm@...>
> *Sent:* Friday, November 27, 2009 10:56 PM
> *Subject:* Re: [GPSL] Mike's Fill Nozzle
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> > Pete
> > KC0GPB
> >
> >
> > ----- Original Message -----

> > *From:* Mike Manes <mailto:mrmanes@...
> <mailto:mrmanes%40gmail.com>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Cc:* Merle McCaslin K0YUK <mailto:mmccaslin@...
> <mailto:mmccaslin%40att.net>> ; Larry Noble
> > N0NDM <mailto:n0ndm@... <mailto:n0ndm%40comcast.net>>
> > *Sent:* Friday, November 27, 2009 8:42 PM
> > *Subject:* Re: [GPSL] Mike's Fill Nozzle
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6251. [GPSL] WB8ELK Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-30 00:14:53 UTC
From: wb8elk@aol.com
Topic: 6245 Message: 6251

Thought I'd show how I build a filling nozzle.

http://www.wb8elk.com/launch.htm

The main filling nozzle part is a 1" Quick-Fix Repair Coupling from either Lowes or Home Depot in their PVC pipe area.

The Repair Coupling part has a 1" PVC pipe that slides in and out of a larger piece to allow you to hook up two PVC pipes with an adjustable distance. It's a part that just seems to made for use as a balloon filler.

I glue in a 3/4" to 1/2" threaded plastic reducer adapter. Then put a 3/4" to 1/2" M-F brass adapter following by an NPT pressure fitting (either male or female depending on what you have on the end of your filling pressure hose). Make sure to use nylon tape on the threaded fittings to seal them.

The top nozzle assembly is the one from Home Depot...the bottom one is from Lowes. Either one will work but the one from Lowes has an indented area near the end that will help hold the balloon on. These are pretty thick so you can also file, Dremel or lathe a groove in it as well.

I tie on a string over the lip of the bottom part of the nozzle filling adapter to hold the balloon down and to measure the lift...it works pretty well.....The NPT fittings allow you to quick release the nozzle from the hose (make sure to close the helium tank valve first) to allow you to accurately measure lift without the helium dumping out...provided you use the female NPT fitting on the nozzle. I also have these fittings on both ends of the fill hose as well as the pressure regulator which allows me to quickly disassemble and pack away the filling system.

Just remember to use a pressure regulator on the tank...the pressure hose from Lowes or Home Depot is only rated to about 300 PSI.

If you want to bypass the use of a regulator, then make sure you have male NPT fittings on each end of the filling hose....but I still recommend using a regulator.

One nice feature when packing things away is that the business end of the nozzle filler is adjustable and can be pushed into the adaptor housing to make it very compact for storage. Just pull it out again for filling...it has a rubber seal inside.

- Bill WB8ELK

www.wb8elk.com

-----Original Message-----
From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Thu, Nov 26, 2009 6:12 pm
Subject: [GPSL] Mike's Fill Nozzle

A few months ago Mike Manes described and sent some photos of his design for a balloon nozzle fill plug made from PVC plumbing pieces. I made a couple last week and used one on our most recent HAB flight. It worked beautifully for filling, sealing and attaching the 1200g balloon and also for checking adequate lift.

Here's a link to a photo of what we used:
http://s33.photobucket.com/albums/d94/bigheadpete/?action=view?t=IMG_2217.jpg

Since our flight team consisted of only two people and four hands on the last two flight this set-up made things much, much easier for us.

Thanks for the idea, Mike. This is too good not to share.

Pete
KC0GPB
http://nixhab.com/

6252. Re: [GPSL] WB8ELK Fill Nozzle

Yahoo group: GPSL (2009 — 2010)
Date: 2009-11-30 00:39:16 UTC
From: Pete Lilja
Topic: 6245 Message: 6252

Very nice. I picked up one of those repair couplers the other day and looked it over for similar use. I hadn't thought through as completely what you've done. It does seem like another good idea. Thanks for sharing. I enjoy seeing how others solve these HABing problems.

Pete
KC0GPB

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Sunday, November 29, 2009 6:14 PM
Subject: [GPSL] WB8ELK Fill Nozzle

Thought I'd show how I build a filling nozzle.

http://www.wb8elk.com/launch.htm

The main filling nozzle part is a 1" Quick-Fix Repair Coupling from either Lowes or Home Depot in their PVC pipe area.

The Repair Coupling part has a 1" PVC pipe that slides in and out of a larger piece to allow you to hook up two PVC pipes with an adjustable distance. It's a part that just seems to made for use as a balloon filler.

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Just remember to use a pressure regulator on the tank...the pressure hose from Lowes or Home Depot is only rated to about 300 PSI.

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- Bill WB8ELK

www.wb8elk.com

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To: GPSL@yahoogroups.com
Sent: Thu, Nov 26, 2009 6:12 pm
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Here's a link to a photo of what we used:
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Since our flight team consisted of only two people and four hands on the last two flight this set-up made things much, much easier for us.

Thanks for the idea, Mike. This is too good not to share.

Pete
KC0GPB
http://nixhab.com/

6253. Launch Date

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-01 13:26:29 UTC
From: Jeff Dailey
Topic: 5102 Message: 6253

This launch is part of the NSF CCLI grant.

We have approval to fly in the National Radio Quiet Zone from the National Radio Astronomy Observatory in Green Bank WV.

Flight #: 218
Flight ID: CCLI Launch
Date: 12-04-2009
Time: 10:00AM
Launch Site: University of West Virginia TBD

APRS: 144.390 KB9ZNZ-14

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6254. Flight Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-01 18:47:15 UTC
From: Keith Kaiser
Topic: 6254 Message: 6254

I have created a stand alone form to submit flight announcements. Located at; http://www.arhab.org/annomail.html this page uses a third party site to send me an eMail formatted to make building the announcement page easier.

I've sent about a dozen experimental announcements using this page and they all work. From Windows running IE 6, and 7, using Safari, and FireFox, under Windows 7 using all the same, and it works every time. I've sent it from Ubuntu and SuSe, Mac OS 10.5, and 10.6, I've yet to break the new form.

So please use this form for submitting your announcements, I would really appreciate it.

Thanks.....

6255. USWS HABs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-02 18:55:53 UTC
From: Pete Lilja
Topic: 6255 Message: 6255

I was getting a haircut earlier today with Jeopardy on the barber shop TV. My attention was piqued when I heard a video 'answer' posed dealing with balloons and the US Weather Service. I didn't hear the 'answer' as the guy in the chair next to me started talking loudly at the same time but it must have been lame as the correct response was reduced "air pressure."

Even more interesting was the little info. blurb right before the commercial break that said 20% of the 750,000 radiosondes launched under balloons by the USWS each year are returned by people that find them thus saving the taxpayers' money. It also mentioned the 2 launches / day by WX stations all over the country I've heard before.

WoW! That's a huge number!

Pete
KC0GPB

6256. Re: [GPSL] USWS HABs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-02 19:53:15 UTC
From: Mark Conner
Topic: 6255 Message: 6256

I think there's an extra zero in the figure for the number of radiosondes.
About 100 stations fly sondes in the US, so 100*2*365 is 73,000 per year.

I remember hearing a 20-25% return rate even 20 and 30 years ago. I tried
to Google for an up-to-date answer and the only thing I found were quotes of
"less than 20%" and "extremely low".

73 de Mark N9XTN

On Wed, Dec 2, 2009 at 12:55, Pete Lilja <plilja@...> wrote:

>
>
> I was getting a haircut earlier today with Jeopardy on the barber shop TV.
> My attention was piqued when I heard a video 'answer' posed dealing with
> balloons and the US Weather Service. I didn't hear the 'answer' as the guy
> in the chair next to me started talking loudly at the same time but it must
> have been lame as the correct response was reduced "air pressure."
>
> Even more interesting was the little info. blurb right before the
> commercial break that said 20% of the *750,000* radiosondes launched under
> balloons by the USWS *each year* are returned by people that find them
> thus saving the taxpayers' money. It also mentioned the 2 launches / day by
> WX stations all over the country I've heard before.
>
> WoW! That's a huge number!
>
> Pete
> KC0GPB
>
>

6257. Re: [GPSL] USWS HABs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-02 21:07:02 UTC
From: Pete Lilja
Topic: 6255 Message: 6257

That sounds much better, Mark. I am sure, however, that Jeopardy said 750K as I was astounded and I don't know how many weather stations there are around the country. But an understandable error. And still a big number!

Pete
KC0GPB

----- Original Message -----
From: Mark Conner
To: GPSL@yahoogroups.com
Sent: Wednesday, December 02, 2009 1:53 PM
Subject: Re: [GPSL] USWS HABs

I think there's an extra zero in the figure for the number of radiosondes. About 100 stations fly sondes in the US, so 100*2*365 is 73,000 per year.

I remember hearing a 20-25% return rate even 20 and 30 years ago. I tried to Google for an up-to-date answer and the only thing I found were quotes of "less than 20%" and "extremely low".

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WoW! That's a huge number!

Pete
KC0GPB

6258. Re: [GPSL] USWS HABs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-02 23:22:33 UTC
From: Mike Manes
Topic: 6255 Message: 6258

Hi Pete,

I'd heard that the return rate for RAOBs in CONUS is more like 75-80%. I'll check that with EOSS's NOAA members.

And yeah, the more interesting statistic is the absence of ANY reports of mid-air collisions between aircraft and RAOBs, and only a few non-injury collisions with surface vehicles. Pretty good indication of the sort of risk that ARHAB flights assume, especially when our flights I-gate APRS data in real time to FAA control floors.

73 de Mike W5VSI

Pete Lilja wrote:
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>
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> TV. My attention was piqued when I heard a video 'answer' posed dealing
> with balloons and the US Weather Service. I didn't hear the 'answer' as
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> under balloons by the USWS /each year/ are returned by people that find
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> / day by WX stations all over the country I've heard before.
>
> WoW! That's a huge number!
>
> Pete
> KC0GPB

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6259. Re: [GPSL] USWS HABs

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-02 23:51:32 UTC
From: Pete Lilja
Topic: 6255 Message: 6259

It's sounding more like Jeopardy is "all ate up" as we say in Iowa.

Pete
KC0GPB

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Wednesday, December 02, 2009 5:22 PM
Subject: Re: [GPSL] USWS HABs

Hi Pete,

I'd heard that the return rate for RAOBs in CONUS is more like 75-80%. I'll check that with EOSS's NOAA members.

And yeah, the more interesting statistic is the absence of ANY reports of mid-air collisions between aircraft and RAOBs, and only a few non-injury collisions with surface vehicles. Pretty good indication of the sort of risk that ARHAB flights assume, especially when our flights I-gate APRS data in real time to FAA control floors.

73 de Mike W5VSI

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> TV. My attention was piqued when I heard a video 'answer' posed dealing
> with balloons and the US Weather Service. I didn't hear the 'answer' as
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> commercial break that said 20% of the *750,000* radiosondes launched
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> Pete
> KC0GPB

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

6260. Darpa Challenge this Saturday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 00:45:06 UTC
From: wb8elk@aol.com
Topic: 6260 Message: 6260

If you see any of the DARPA challenge balloons....tethered red balloons with a white banner and number below it....please forward the lat/lon coordinates to me or the list ... I've entered on behalf of GPSL so lets see if we can get all 10 !!! If we somehow manage to win the prize, I recommend half of it be used for upcoming GPSL conferences with the other portion split between those who first make a sighting of one of the balloon.

- Bill WB8ELK

https://networkchallenge.darpa.mil/default.aspx

6261. Re: [GPSL] Darpa Challenge this Saturday

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 02:22:09 UTC
From: Mike Manes
Topic: 6260 Message: 6261

Hi Bill,

I'm following DARPA on Twitter, where I found this site, listing the "public" contestant groups:

http://redballoon.wikispaces.com/Groups

But I didn't find "GPSL" or any such variant on that list.

73 es GL in the contest!
de Mike W5VSI

wb8elk@... wrote:
>
>
> If you see any of the DARPA challenge balloons....tethered red balloons
> with a white banner and number below it....please forward the lat/lon
> coordinates to me or the list ... I've entered on behalf of GPSL so lets
> see if we can get all 10 !!! If we somehow manage to win the prize, I
> recommend half of it be used for upcoming GPSL conferences with the
> other portion split between those who first make a sighting of one of
> the balloon.
>
> - Bill WB8ELK
>
> https://networkchallenge.darpa.mil/default.aspx
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6262. DARPA Challenge info

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 11:50:15 UTC
From: wb8elk@aol.com
Topic: 6262 Message: 6262

I've put a link called "Balloonatics" on the DARPA red balloon wiki:

http://redballoon.wikispaces.com/Groups

Basically offering $2000 for the first person to email the position of each balloon if we win the prize....the rest of the prize will go to fund the Great Plains Superlaunch conference.

I set up an email for reports at: redballoonchallenge@...

Please feel free to join in and hopefully we can have fun with this and who know?...might just have some great funding for future Superlaunch conferences.

- Bill WB8ELK

=

6263. Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 17:29:06 UTC
From: Zack Clobes
Topic: 6263 Message: 6263

Is anyone seeing anything? I'm ready and willing to mobilize, but I'm not seeing anything out here.

BTW, according to the meta-data on the JPG of #10 balloon (https://networkchallenge.darpa.mil/default.aspx), it looks like it's in the eastern time zone. Crossing the clear-blue skies against the current weather map, I'd guess that it's in the TN/LA/MS area.

Not quite within the 1 mi radius I'm afraid.

Zack Clobes, W0ZC
Project: Traveler

6264. Re: [GPSL] Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 18:57:46 UTC
From: wb8elk@aol.com
Topic: 6263 Message: 6264

Report of Balloon 5 from Memphis TN....in a park near the Mississippi River...anyone in the area to confirm with a photo? Please send me any sighting reports.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, Dec 5, 2009 11:29 am
Subject: [GPSL] Balloon Challenge

Is anyone seeing anything? I'm ready and willing to mobilize, but I'm not seeing anything out here.

BTW, according to the meta-data on the JPG of #10 balloon (https://networkchallenge.darpa.mil/default.aspx), it looks like it's in the eastern time zone. Crossing the clear-blue skies against the current weather map, I'd guess that it's in the TN/LA/MS area.

Not quite within the 1 mi radius I'm afraid.

Zack Clobes, W0ZC
Project: Traveler

6265. Re: [GPSL] Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 21:46:38 UTC
From: wb8elk@aol.com
Topic: 6263 Message: 6265

So far we have reports that sound legit of Balloon 3 (Charlotteville, VA) and Balloon 5 (Memphis, TN). Zack has a guess on Balloon 10 in GA.

I've searched around the Huntsville, AL area and have seen nothing here...the usual suspects of Space Camp and near the Redstone Arsenal.

Any other reports or good guesses?

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, Dec 5, 2009 11:29 am
Subject: [GPSL] Balloon Challenge

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Not quite within the 1 mi radius I'm afraid.

Zack Clobes, W0ZC
Project: Traveler

6266. Re: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 22:31:37 UTC
From: Roger Hammond
Topic: 6263 Message: 6266

Nothing spotted around Grand Island, NE, but then I'm not surprised. If one were to end up in Nebraska I would expect it to be in Omaha or around the Strategic Air Museum.

Rog KC0MWM

On Sat, Dec 5, 2009 at 3:46 PM, <wb8elk@...> wrote:

>
>
> So far we have reports that sound legit of Balloon 3 (Charlotteville, VA)
> and Balloon 5 (Memphis, TN). Zack has a guess on Balloon 10 in GA.
>
> I've searched around the Huntsville, AL area and have seen nothing
> here...the usual suspects of Space Camp and near the Redstone Arsenal.
>
> Any other reports or good guesses?
>
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com>
> Sent: Sat, Dec 5, 2009 11:29 am
> Subject: [GPSL] Balloon Challenge
>
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> Is anyone seeing anything? I'm ready and willing to mobilize, but I'm
> not seeing anything out here.
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> BTW, according to the meta-data on the JPG of #10 balloon (
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> the eastern time zone. Crossing the clear-blue skies against the current
> weather map, I'd guess that it's in the TN/LA/MS area.
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> Not quite within the 1 mi radius I'm afraid.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>
>
>

6267. Re: [Balloon_Sked] DARPA Challenge info

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 22:34:18 UTC
From: wb8elk@aol.com
Topic: 6267 Message: 6267

I've confirmed Balloon #3's location in Charlottesville VA in an unusual manner....the Google Map of the coordinates provided to us shows it in a tennis court....then on eBay I see an auction for Balloon #3's location with a photo of the DARPA team and Balloon 3 and guess what?...it's in a tennis court.

So far we have positions for 3, 5 and possibly 10....anyone have $9000 to donate for the eBay auction for Balloons 2, 3, 5, 7, 8 and 9's guaranteed positions?

- Bill WB8ELK

-----Original Message-----
From: Mark Garrett <ka9szx@...>
To: wb8elk@...
Sent: Sat, Dec 5, 2009 4:25 pm
Subject: Re: [Balloon_Sked] DARPA Challenge info

No balloons spotted in Macomb, as if I was expecting one here.

Mark

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com; balloon_sked@yahoogroups.com; balloonatics@yahoogroups.com
Sent: Sat, December 5, 2009 5:50:15 AM
Subject: [Balloon_Sked] DARPA Challenge info

I've put a link called "Balloonatics" on the DARPA red balloon wiki:

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- Bill WB8ELK

6268. RE: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 22:37:08 UTC
From: Fraser, Don
Topic: 6263 Message: 6268

Of the three so far, does there appear to be any pattern or anything in common? If so, what is it?

Don Fraser
WA9WWS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Saturday, December 05, 2009 3:32 PM
To: wb8elk@...
Cc: GPSL@yahoogroups.com; balloon_sked@yahoogroups.com; balloonatics@yahoogroups.com; zclobes@...
Subject: Re: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Nothing spotted around Grand Island, NE, but then I'm not surprised. If one were to end up in Nebraska I would expect it to be in Omaha or around the Strategic Air Museum.

Rog KC0MWM

On Sat, Dec 5, 2009 at 3:46 PM, <wb8elk@...<mailto:wb8elk@...>> wrote:

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I've searched around the Huntsville, AL area and have seen nothing here...the usual suspects of Space Camp and near the Redstone Arsenal.

Any other reports or good guesses?

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@gmail.com<mailto:zclobes@...>>
To: Group GPSL <GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>>
Sent: Sat, Dec 5, 2009 11:29 am
Subject: [GPSL] Balloon Challenge

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Not quite within the 1 mi radius I'm afraid.

Zack Clobes, W0ZC
Project: Traveler

6269. Balloon is in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 22:40:06 UTC
From: Jeff Dailey
Topic: 6269 Message: 6269

KB9ZNZ-11 is in the air just south of the Salton Sea in CA. at 75,000'.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6270. Re: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-05 22:41:33 UTC
From: wb8elk@aol.com
Topic: 6263 Message: 6270

Two of the most accurate ones I have were in city parks.

- Bill

-----Original Message-----
From: Fraser, Don <don.fraser@...>
To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>; wb8elk@... <wb8elk@...>
Cc: balloon_sked@yahoogroups.com <balloon_sked@yahoogroups.com>;
balloonatics@yahoogroups.com <balloonatics@yahoogroups.com>; zclobes@...
<zclobes@gmail.com>
Sent: Sat, Dec 5, 2009 4:37 pm
Subject: RE: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Of the three so far, does there appear to be any pattern or anything in common? If so, what is it?

Don Fraser
WA9WWS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Saturday, December 05, 2009 3:32 PM
To: wb8elk@...
Cc: GPSL@yahoogroups.com; balloon_sked@yahoogroups.com; balloonatics@yahoogroups.com; zclobes@...
Subject: Re: [Balloon_Sked] Re: [GPSL] Balloon Challenge

Nothing spotted around Grand Island, NE, but then I'm not surprised. If one were to end up in Nebraska I would expect it to be in Omaha or around the Strategic Air Museum.

Rog KC0MWM

On Sat, Dec 5, 2009 at 3:46 PM, <wb8elk@...> wrote:

So far we have reports that sound legit of Balloon 3 (Charlotteville, VA) and Balloon 5 (Memphis, TN). Zack has a guess on Balloon 10 in GA.

I've searched around the Huntsville, AL area and have seen nothing here...the usual suspects of Space Camp and near the Redstone Arsenal.

Any other reports or good guesses?

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, Dec 5, 2009 11:29 am
Subject: [GPSL] Balloon Challenge

Is anyone seeing anything? I'm ready and willing to mobilize, but I'm not seeing anything out here.

BTW, according to the meta-data on the JPG of #10 balloon (https://networkchallenge.darpa.mil/default.aspx), it looks like it's in the eastern time zone. Crossing the clear-blue skies against the current weather map, I'd guess that it's in the TN/LA/MS area.

Not quite within the 1 mi radius I'm afraid.

Zack Clobes, W0ZC
Project: Traveler

6271. Re: [GPSL] Balloon is in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 00:52:31 UTC
From: Keith Kaiser
Topic: 6269 Message: 6271

Jeff, I'd give you a buck to give me the correct call sign just once.... LOL

On Dec 5, 2009, at 4:40 PM, Jeff Dailey wrote:

> KB9ZNZ-11 is in the air just south of the Salton Sea in CA. at 75,000'.
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
> 236 W. Reade Ave.
> Upland, IN 46989
> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
>
>

6272. Re: DARPA update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 01:43:29 UTC
From: Zack Clobes
Topic: 6272 Message: 6272

Too late it looks like... Congrats to the MIT Red Balloon Team.

https://networkchallenge.darpa.mil/default.aspx

On Sat, Dec 5, 2009 at 7:04 PM, <wb8elk@...> wrote:

> I haven't found much on Balloons 2 and 6....could use a good guess on
> those two before submitting one of our guesses.
>
> We have 100 percent confirmation of Balloon 3 which I confirmed in a very
> unusual way:
>
> I received an email but no photo from a fellow in Charlottesville VA who
> said he had found Balloon 3 and sent me the coordinates. The Google Map
> showed it in the middle of a tennis court.
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> Then I found out people were selling positions on eBay....and sure enough
> there was Balloon 3's position for sale in Charlottesville VA by another
> fellow who was trying to get $500 out of it....he even included a photo
> which showed the balloon right in the middle of a tennis court !!!!
>
>
> http://cgi.ebay.com/DARPA-Red-Balloon-3-Location_W0QQitemZ200414562396QQcmdZViewItemQQpt
ZUS_Nonfiction_Book?hash=item2ea9a3885c
>
> And the $9000 bid:
>
>
> http://cgi.ebay.com/DARPA-Red-Balloon-Locations-2-3-5-7-8-9_W0QQitemZ110466464994QQcmdZV
iewItemQQptZLH_DefaultDomain_0?hash=item19b8507ce2
>
> Here's a link showing all the open Balloon groups...they are also using
> Twitter and Facebook.
>
> http://redballoon.wikispaces.com/Groups
>
> I also have a report of Balloon 5 that was emailed to me from a park in
> Memphis, TN that sounds believable...but couldn't find anyone to drive out
> there in time to confirm it.
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> ==========
> Here's my emailed report for Balloon 5:
>
> Balloon #5
> Latitude 35 degrees 08 minutes 15 seconds north
> Langitude 090 degrees 03 minutes 43 seconds west

> The balloon is located in Tom Lee Park on Riverside Drive in Memphis, TN
> right next to the Mississippi River. There were two DARPA representatives
> there that gave me a piece of paper with the official coordinates. Sorry no
> photo but I promise it is there.
> Thanks,
> Samuel Riney
>
> ---
>
> And for Balloon 3 in Charlottesville VA:
>
> North Lat:
> 38.01.33
> West Long:
> 078.29.23
>
> No photo's unfortunately. Camera decided to spaz out on me today. Good luck
> guys!
> Kyle Sherrill
>
> ---
>
>

6273. Re: [GPSL] Re: DARPA update

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 02:01:03 UTC
From: wb8elk@aol.com
Topic: 6272 Message: 6273

Looks like we had four locations nailed down.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: wb8elk@...
Cc: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, Dec 5, 2009 7:43 pm
Subject: [GPSL] Re: DARPA update

Too late it looks like... Congrats to the MIT Red Balloon Team.

https://networkchallenge.darpa.mil/default.aspx

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http://cgi.ebay.com/DARPA-Red-Balloon-3-Location_W0QQitemZ200414562396QQcmdZViewItemQQptZUS_Nonfiction_Book?hash=item2ea9a3885c

And the $9000 bid:

http://cgi.ebay.com/DARPA-Red-Balloon-Locations-2-3-5-7-8-9_W0QQitemZ110466464994QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item19b8507ce2

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Thanks,
Samuel Riney

And for Balloon 3 in Charlottesville VA:

North Lat:
38.01.33
West Long:
078.29.23

No photo's unfortunately. Camera decided to spaz out on me today. Good luck guys!
Kyle Sherrill

6274. Re: [EOSS_LT] Eoss-147/148 recap finally finished

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 02:27:34 UTC
From: Mike Manes
Topic: 6274 Message: 6274

Excellent work, Rick!

Rick von Glahn wrote:
> Ok, it took way too long but the finishing touches went up today and the
> recap for EOSS flights 147 and 148 is complete. The final piece of the
> puzzle was getting the SamCam photos posted.
>
> The Samcam photos are very interesting to see. They cover the landing
> sequence nicely, showing off some interesting nearby structures, yeah, the
> windmills.
>
> Sorry for the delay but... at least we didn't fly before it was done and ...
> it's there for the upcoming meeting.
>
> http://www.eoss.org/ansrecap/ar_160/recap147_148.htm
>
>
> 73 -- Rick, N0KKZ
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6275. DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 04:10:34 UTC
From: wb8elk@aol.com
Topic: 6275 Message: 6275

Not sure if the eBay auctions are still up there...but it was fun to see all modes of social interaction being used for this challenge.... websites, Yahoogroups, Twitter, Facebook, APRS and good ole cell phones...one group even had an iPhone app to report the balloon positions....the MIT group won about 9 hours after the Challenge started.....We had 2 positive reports sent to us in Charlottesville VA and Memphis TN (at the end of this email) and had two good guesses based on probabilities of looking at all the online reports to try to figure out which were bogus and which were possibly good. I reasoned that most would be in city parks and eliminated those that seemed way out in the boonies or weren't near city parks....Zack Clobes did a percentage analysis to narrow things down, so we managed to get the Miami, FL one that way and I made a guess at downtown Atlanta GA which got us 4 total balloon positions for the Balloonatics team.

Thanks to all who helped out today...it was fun. Also thanks to Mark Caviezel for burning through gallons of fuel to confirm that none were in the DC area.

- Bill Brown WB8ELK

Actual map of where the 10 balloons were located:
https://networkchallenge.darpa.mil/default.aspx

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Here's a link showing all the open Balloon groups...they are also using Twitter and Facebook.

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Here's our two actual sighting reports received by the Balloonatics team: Thanks to Samuel Riney and Kyle Sherill for their reports!!!

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North Lat:
38.01.33
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No photo's unfortunately. Camera decided to spaz out on me today. Good luck guys!
Kyle Sherrill

- Bill WB8ELK

-----Original Message-----
From: Facility 406 DM09 <facility_406@...>
To: Ballooning@yahoogroups.com
Sent: Sat, Dec 5, 2009 9:24 pm
Subject: Re: [Ballooning] Re: [Balloon_Sked] DARPA Challenge info

Auction #?

Kurt

----- Original Message -----
From: <wb8elk@...>

So far we have positions for 3, 5 and possibly 10....anyone have $9000 to donate for the eBay auction for Balloons 2, 3, 5, 7, 8 and 9's guaranteed positions?

6276. RE: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 13:31:05 UTC
From: Nick Hanks
Topic: 6275 Message: 6276

Nicely done, Bill.

Also thanks for the informative summary. Looks like a fair number of folks got involved. I thought the use of eBay was quite interesting.

Nick

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Saturday, December 05, 2009 21:11
To: Ballooning@yahoogroups.com; GPSL@yahoogroups.com; balloon_sked@yahoogroups.com
Cc: rod@...
Subject: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Not sure if the eBay auctions are still up there...but it was fun to see all modes of social interaction being used for this challenge.... websites, Yahoogroups, Twitter, Facebook, APRS and good ole cell phones...one group even had an iPhone app to report the balloon positions....the MIT group won about 9 hours after the Challenge started.....We had 2 positive reports sent to us in Charlottesville VA and Memphis TN (at the end of this email) and had two good guesses based on probabilities of looking at all the online reports to try to figure out which were bogus and which were possibly good. I reasoned that most would be in city parks and eliminated those that seemed way out in the boonies or weren't near city parks....Zack Clobes did a percentage analysis to narrow things down, so we managed to get the Miami, FL one that way and I made a guess at downtown Atlanta GA which got us 4 total balloon positions for the Balloonatics team.

Thanks to all who helped out today...it was fun. Also thanks to Mark Caviezel for burning through gallons of fuel to confirm that none were in the DC area.

- Bill Brown WB8ELK

Actual map of where the 10 balloons were located:
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Thanks,
Samuel Riney

And for Balloon 3 in Charlottesville VA:

North Lat:

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No photo's unfortunately. Camera decided to spaz out on me today. Good luck guys!

Kyle Sherrill

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From: Facility 406 DM09 <facility_406@...>
To: Ballooning@yahoogroups.com
Sent: Sat, Dec 5, 2009 9:24 pm
Subject: Re: [Ballooning] Re: [Balloon_Sked] DARPA Challenge info

Auction #?

Kurt

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From: <wb8elk@... <mailto:wb8elk%40aol.com> >

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6277. Re: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 15:41:07 UTC
From: Idle-Tyme
Topic: 6275 Message: 6277

None were even remotely close to me, but one thing is that I am amazed
on how fast they were all located.

Now a question, is did they have a guard at each one or something? How
secure were they ya know to keep anyone from playoing with them or even
cutting one free?
What were they made of, it appears like a chloth made material?
and what diameter were they? they diddn't seem too big, which makes ya
wonder again what it was made of, because if they were indeed a fabric
type of material it had to be awful light, since if the balloon is
somewhat small it cant make a lot of lift,,

Possible superpressure type of material?
Joe

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

wb8elk@... wrote:
>
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>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.710 / Virus Database: 270.14.96/2548 - Release Date: 12/06/09 01:30:00
>
>

6278. Re: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 17:13:42 UTC
From: Pete Lilja
Topic: 6275 Message: 6278

Idle-TymeThe web site says the balloons were / are 8' diameter and there were DARPA reps. stationed at each balloon with information and coord location handouts.

I am curious as to how the locations were determined? Why were those cities were selected? It may be nothing more than that's where those DARPA people planned to be yesterday or was something else going on? Obviously huge parts of the country are left out with only 10 balloons and equally obvious is the idea that it doesn't matter where they located as information can easily get anywhere.

This whole event is pretty cool, IMO, and it'll be interesting to see the different strategies used and how these strategies are used in the future for quick information gathering. And that brings up another question: What uses can this exercise be expanded to? I see the possibility of:

1. Terror threats / activities over a large geo. area.
2. Natural disaster info gathering
3. Civil unrest activity throughout the world

What else? There could be hundreds of uses I can't think of...

Pete
KC0GPB

----- Original Message -----
From: Idle-Tyme
To: GPSL@yahoogroups.com
Sent: Sunday, December 06, 2009 9:41 AM
Subject: Re: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

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Auction #?

Kurt

----- Original Message -----
From: <wb8elk@...>

So far we have positions for 3, 5 and possibly 10....anyone have $9000 to donate for the eBay auction for Balloons 2, 3, 5, 7, 8 and 9's guaranteed positions?

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.710 / Virus Database: 270.14.96/2548 - Release Date: 12/06/09 01:30:00

6279. Re: [GPSL] DARPA balloon challenge has been won by the MIT group - Balloonatics found 4 balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 19:41:42 UTC
From: Zack Clobes
Topic: 6275 Message: 6279

They were supposedly about 5' in diameter, but the photos do look kind of odd - not like any latex I've seen.

They had a representative at the balloon. The Rep was actually handing out pieces of paper with the Lat/Lon coordinates on it as I understand.

I realize taking the lat/lon difficulty out of the loop makes it possible for anyone to participate, but it seems a bit like cheating...

Zack

On Sun, Dec 6, 2009 at 11:13 AM, Pete Lilja <plilja@...> wrote:

>
>
> The web site says the balloons were / are 8' diameter and there were DARPA
> reps. stationed at each balloon with information and coord location
> handouts.
>
> I am curious as to how the locations were determined? Why were those
> cities were selected? It may be nothing more than that's where those DARPA
> people planned to be yesterday or was something else going on? Obviously
> huge parts of the country are left out with only 10 balloons and equally
> obvious is the idea that it doesn't matter where they located as information
> can easily get anywhere.
>
> This whole event is pretty cool, IMO, and it'll be interesting to see the
> different strategies used and how these strategies are used in the future
> for quick information gathering. And that brings up another question: What
> uses can this exercise be expanded to? I see the possibility of:
>
> 1. Terror threats / activities over a large geo. area.
> 2. Natural disaster info gathering
> 3. Civil unrest activity throughout the world
>
> What else? There could be hundreds of uses I can't think of...
>
> Pete
> KC0GPB
>
>
> ----- Original Message -----
> *From:* Idle-Tyme <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sunday, December 06, 2009 9:41 AM

> *Subject:* Re: [GPSL] DARPA balloon challenge has been won by the MIT
> group - Balloonatics found 4 balloons
>
>
>
> None were even remotely close to me, but one thing is that I am amazed on
> how fast they were all located.
>
> Now a question, is did they have a guard at each one or something? How
> secure were they ya know to keep anyone from playoing with them or even
> cutting one free?
> What were they made of, it appears like a chloth made material?
> and what diameter were they? they diddn't seem too big, which makes ya
> wonder again what it was made of, because if they were indeed a fabric type
> of material it had to be awful light, since if the balloon is somewhat small
> it cant make a lot of lift,,
>
> Possible superpressure type of material?
> Joe
>
> *The Original Rolling Ball Clock
> http://www.idle-tyme.com*
>
>
>
> wb8elk@... wrote:
>
> Not sure if the eBay auctions are still up there...but it was fun to see
> all modes of social interaction being used for this challenge.... websites,
> Yahoogroups, Twitter, Facebook, APRS and good ole cell phones...one group
> even had an iPhone app to report the balloon positions....the MIT group won
> about 9 hours after the Challenge started.....We had 2 positive reports sent
> to us in Charlottesville VA and Memphis TN (at the end of this email) and
> had two good guesses based on probabilities of looking at all the online
> reports to try to figure out which were bogus and which were possibly good.
> I reasoned that most would be in city parks and eliminated those that seemed
> way out in the boonies or weren't near city parks....Zack Clobes did a
> percentage analysis to narrow things down, so we managed to get the Miami,
> FL one that way and I made a guess at downtown Atlanta GA which got us 4
> total balloon positions for the Balloonatics team.
>
> Thanks to all who helped out today...it was fun. Also thanks to Mark
> Caviezel for burning through gallons of fuel to confirm that none were in
> the DC area.
>
> - Bill Brown WB8ELK
>
> Actual map of where the 10 balloons were located:
> https://networkchallenge.darpa.mil/default.aspx
>

>
> We had 100 percent confirmation of Balloon 3 which I confirmed in a very
> unusual way:
>
> I received an email but no photo from a fellow in Charlottesville VA who
> said he had found Balloon 3 and sent me the coordinates. The Google Map
> showed it in the middle of a tennis court.
>
> Then I found out people were selling positions on eBay....and sure enough
> there was Balloon 3's position for sale in Charlottesville VA by another
> fellow who was trying to get $500 out of it....he even included a photo
> which showed the balloon right in the middle of a tennis court !!!!
>
>
> http://cgi.ebay.com/DARPA-Red-Balloon-3-Location_W0QQitemZ200414562396QQcmdZViewItemQQpt
ZUS_Nonfiction_Book?hash=item2ea9a3885c
>
> And the $9000 bid:
>
>
> http://cgi.ebay.com/DARPA-Red-Balloon-Locations-2-3-5-7-8-9_W0QQitemZ110466464994QQcmdZV
iewItemQQptZLH_DefaultDomain_0?hash=item19b8507ce2
>
> Here's a link showing all the open Balloon groups...they are also using
> Twitter and Facebook.
>
> http://redballoon.wikispaces.com/Groups
>
>
> Here's our two actual sighting reports received by the Balloonatics team:
> Thanks to Samuel Riney and Kyle Sherill for their reports!!!
>
> ==========
> Here's the emailed report for Balloon 5:
>
> Balloon #5
> Latitude 35 degrees 08 minutes 15 seconds north
> Langitude 090 degrees 03 minutes 43 seconds west
> The balloon is located in Tom Lee Park on Riverside Drive in Memphis, TN
> right next to the Mississippi River. There were two DARPA representatives
> there that gave me a piece of paper with the official coordinates. Sorry no
> photo but I promise it is there.
> Thanks,
> Samuel Riney
>
> ---
>
> And for Balloon 3 in Charlottesville VA:
>
> North Lat:

> 38.01.33
> West Long:
> 078.29.23
>
> No photo's unfortunately. Camera decided to spaz out on me today. Good luck
> guys!
> Kyle Sherrill
>
> ---
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Facility 406 DM09 <facility_406@...><facility_406@...>
> To: Ballooning@yahoogroups.com
> Sent: Sat, Dec 5, 2009 9:24 pm
> Subject: Re: [Ballooning] Re: [Balloon_Sked] DARPA Challenge info
>
>
> Auction #?
>
> Kurt
>
> ----- Original Message -----
> From: <wb8elk@... <wb8elk%40aol.com>>
>
> So far we have positions for 3, 5 and possibly 10....anyone have $9000 to
> donate for the eBay auction for Balloons 2, 3, 5, 7, 8 and 9's guaranteed
> positions?
>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.710 / Virus Database: 270.14.96/2548 - Release Date: 12/06/09 01:30:00
>
>
>
>
>

6280. Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 21:39:44 UTC
From: Jeff Dailey
Topic: 6280 Message: 6280

KB9ZNZ-14 flue on Friday in WV. and KB9ZNZ-11 flue Saturday from CA.

6281. Re: [GPSL] Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 22:14:35 UTC
From: Mike Manes
Topic: 6280 Message: 6281

Hmmm ... launching from a smokestack is a unique method for dealing
with high surface winds ... I guess.
73 de Mike W5VSI

Jeff Dailey wrote:
> KB9ZNZ-14 flue on Friday in WV. and KB9ZNZ-11 flue Saturday from CA.
>
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6282. Re: [GPSL] Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-06 23:55:06 UTC
From: Idle-Tyme
Topic: 6280 Message: 6282

Must have been a Hot Air Balloon!

Joe WB9SBD

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

Mike Manes wrote:
> Hmmm ... launching from a smokestack is a unique method for dealing
> with high surface winds ... I guess.
> 73 de Mike W5VSI
>
> Jeff Dailey wrote:
>
>> KB9ZNZ-14 flue on Friday in WV. and KB9ZNZ-11 flue Saturday from CA.
>>
>>
>>
>>
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
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>>
>
>
> --
>
>
> No virus found in this incoming message.
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> Version: 9.0.710 / Virus Database: 270.14.96/2548 - Release Date: 12/06/09 01:30:00
>
>

6283. Re: [EOSS_Private]Re: NASA plans robot rocket aero plane to fly above Mars . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-07 16:11:42 UTC
From: Mike Manes
Topic: 6283 Message: 6283

Hey, thanks for that link, and, no, that's the first I'd seen of that piece.

For Bill: Great piece of reporting, including the plug for GPSL!

I'm eagerly awaiting a report on how the MIT managed that coupe in just 9 hours. Guessing they recruited a mass of mobile eyeballs from the MIT alumni association.

Winter has decided to come out of the closet here - it's been snowing off & on for 3 days now, and the temp at my place is -15C - brrrr! That could even keep Bill off the slopes!

73 de Mike W5VSI

Suzanne Smith wrote:
> I suppose you probably saw this, but in case not ...
>
> http://www.associatedcontent.com/article/2461236/the_balloonatics_attempt_at_winning.html?cat=15
>
>
> (found by searching with "DARPA Red Balloon Bill Brown")
>
> Fun stuff!
>
> At 01:22 PM 12/5/2009 +0000, Russell.B.Chadwick@... wrote:
>> ----- Original Message -----
>> From: Mike Manes <mrmanes@...>
>> Date: Saturday, December 5, 2009 0:13 am
>>
>> >
>> > Suzanne Weaver Smith wrote:
>>
>> > >
>> > > I've also been thinking of you all too with DARPA's Red Balloon
>> > > Challenge (see google) tomorrow. Bet a ham network could win this!
>> > >
>>
>> Suzanne,
>>
>> If you see any of the DARPA Challenge Red Weather Balloons today, join
>> our team.
>>
>> http://www.wxqa.com/news.html
>>

>> Russ Chadwick
>
> Dr. Suzanne Weaver Smith, P.E.
> Donald and Gertrude Lester Professor of Mechanical Engineering
> University of Kentucky
> 151 Ralph G. Anderson Building
> Lexington, KY 40506-0503
>
> tel: 859/ 257-6336 x80663
> fax: 859/ 257-3304
> ssmith@...
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6284. Last weeks flights

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-07 20:01:00 UTC
From: Jeff Dailey
Topic: 6284 Message: 6284

The last message was not complete driving and cellphone email does not go together well.

Friday 12-4-2009 KB9ZNZ-9 flight from the Indianapolis IN. area.
Friday 12-4-2009 KB9ZNZ-14 flight from the Elmwood WV.. area.
Saturday 12-5-2009 KB9ZNZ-11 flight from the Hovley CA. area.

We may have two or three more flights before the end of the year, as of today Taylor University is at 218 fights completed.
We will be transitioning from the HARP Command system to the HawkEye platform in January of 2010 with the first flights for the J Term class.
HawkEye will be the primary research platform.

Quick look at HawkEye:
Analog channels: 25 to 250
High speed user data bus interface
Three axis GPS configuration
Dual high speed Uplink / Downlink RF module (Secured Constellation MESH Network)
Satellite comm. link (for out of ground station network range)
Controlled Ascent / Descent rates
Altitude Hold (+- 500m)
Stabilized targeting platform (+-3 Degree)
DropSonde system

It been a great year of ballooning, happy holidays to all.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6285. Article has been posted on the Internet about the Balloonatics search effort for the DARPA Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-07 20:08:15 UTC
From: wb8elk@aol.com
Topic: 6285 Message: 6285

I was contacted by an author who posted a news item about the Balloonatics team's search effort for the DARPA Challenge...the GPSL conference and weblink was mentioned so hopefully we'll get some hits on superlaunch.org.

http://www.associatedcontent.com/article/2461236/the_balloonatics_attempt_at_winning.html?cat=15

- Bill WB8ELK

6286. Re: [GPSL] Re: [EOSS_Private]Re: NASA plans robot rocket aero plane to fly above Mars . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-07 20:17:01 UTC
From: BASE
Topic: 6283 Message: 6286

Mike,

Here's the link to the article that appeared in the online NY Times today about the DARPA event:

http://www.nytimes.com/2009/12/07/technology/internet/07contest.html?ref=technology

The article quotes an organizer and appears to be legitimate. They offered to split the money with the finders and give their half to charity.

Howard

--- On Mon, 12/7/09, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: [GPSL] Re: [EOSS_Private]Re: NASA plans robot rocket aero plane to fly above Mars . The Register
To: "Suzanne Smith" <ssmith@...>
Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>, "Bill Smith" <bsmith@engr.uky.edu>, "Bill Brown WB8ELK" <wb8elk@...>
Date: Monday, December 7, 2009, 11:11 AM

Hey, thanks for that link, and, no, that's the first I'd seen of that piece.

For Bill: Great piece of reporting, including the plug for GPSL!

I'm eagerly awaiting a report on how the MIT managed that coupe in just 9

hours. Guessing they recruited a mass of mobile eyeballs from the MIT alumni

association.

Winter has decided to come out of the closet here - it's been snowing off & on

for 3 days now, and the temp at my place is -15C - brrrr! That could even

keep Bill off the slopes!

73 de Mike W5VSI

Suzanne Smith wrote:

> I suppose you probably saw this, but in case not ...

>

> http://www.associat edcontent. com/article/ 2461236/the_ balloonatics_ attempt_at_ winning.html? cat=15

>

>

> (found by searching with "DARPA Red Balloon Bill Brown")

>

> Fun stuff!

>

> At 01:22 PM 12/5/2009 +0000, Russell.B.Chadwick@ noaa.gov wrote:

>> ----- Original Message -----

>> From: Mike Manes <mrmanes@gmail. com>

>> Date: Saturday, December 5, 2009 0:13 am

>>

>> >

>> > Suzanne Weaver Smith wrote:

>>

>> > >

>> > > I've also been thinking of you all too with DARPA's Red Balloon

>> > > Challenge (see google) tomorrow. Bet a ham network could win this!

>> > >

>>

>> Suzanne,

>>

>> If you see any of the DARPA Challenge Red Weather Balloons today, join

>> our team.

>>

>> http://www.wxqa. com/news. html

>>

>> Russ Chadwick

>

> Dr. Suzanne Weaver Smith, P.E.

> Donald and Gertrude Lester Professor of Mechanical Engineering

> University of Kentucky

> 151 Ralph G. Anderson Building

> Lexington, KY 40506-0503

>

> tel: 859/ 257-6336 x80663

> fax: 859/ 257-3304

> ssmith@engr. uky.edu

>

>

--

Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

6287. MIT win DARPA's flashcrowd balloon-hu nt compo • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-08 04:04:15 UTC
From: Mike Manes
Topic: 6287 Message: 6287

From Olde Blighty, here's how MIT did it:

http://www.theregister.co.uk/2009/12/07/darpa_balloon_hunt_result/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6288. Re: [GPSL] MIT win DARPA's fl ashcrowd balloon-hunt compo • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-08 05:19:29 UTC
From: Idle-Tyme
Topic: 6287 Message: 6288

Gotta admit it, Pretty smart.

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

Mike Manes wrote:
> From Olde Blighty, here's how MIT did it:
>
> http://www.theregister.co.uk/2009/12/07/darpa_balloon_hunt_result/
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.710 / Virus Database: 270.14.98/2551 - Release Date: 12/07/09 13:34:00
>
>

6289. EOSS and TVNSP Visits?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-09 14:53:43 UTC
From: L. Paul Verhage
Topic: 6289 Message: 6289

I'm going back to Idaho for Chrsitmas vacation. I was wonder if anyone from TVNSP or EOSS would like to get together during that time?

I'll be in Idaho from Dec 20 to 23 and in Colorado on the 27th.

--
Onwards and Upwards,
Paul

6290. Red Ballon Challenge on the Radio

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-11 20:55:17 UTC
From: Pete Lilja
Topic: 6290 Message: 6290

I was just listening to NPR's Science Friday with Ira Flatow and he had a short segment on DARPA's Red Balloon Challenge with a member of the winning MIT team, Riley Crane. The segment was rather short yet Mr. Crane answered some questions as to how they did it and kept some of the things to himself for future scholarly publication.

Look at the web site: http://www.sciencefriday.com/program/archives/200912114 Nothing is posted yet but they often will podcast these programs after broadcast. Definitely worth your time to listen (or read if they post a transcript).

Pete
KC0GPB

6291. Science Friday DARPA Red Balloon Story

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-12 01:36:53 UTC
From: Pete Lilja
Topic: 6291 Message: 6291

Here's the DARPA Red Balloon Challenge story on today's Science Friday. It's worth a listen, IMO.

http://www.npr.org/templates/story/story.php?storyId=121343442

6292. Armchair balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-14 08:02:27 UTC
From: Greg Williams
Topic: 6292 Message: 6292

Maybe a tad off-topic, but something of interest to someone...

Caught a commercial (posted on Collegehumor) for an HDTV and it was interesting (for me at least) to watch:
http://www.collegehumor.com/video:1926134

An armchair sent aloft to near-space.

I was fascinated with the rigging for the camera angles used during the flight.

SPOILER ALERT: The chair breaks apart after burst...

I'd be curious to know where it was launched (looks like NM maybe?) and if anyone could decipher the packets used in the commercial.

Greg Williams
gregwilliams@...
k4hsm@...

6293. BallastHalo3 Long Duration Floater - Crossing the Channel

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-14 19:12:34 UTC
From: James Coxon
Topic: 6293 Message: 6293

Hey All,
A quick request - does anyone know any Hams based in Northern France or Southern England- our long duration floater seems to have finally established float at 29km and is beginning to push our range (its only 10mW transmitter!).

The track is : http://spacenear.us/tracker/ and chat is on #highaltitude on irc.freenode.net

James Coxon
M6JCX

http://www.pegasushabproject.org.uk

6294. Re: [GPSL] Armchair balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-14 22:17:53 UTC
From: wb8elk@aol.com
Topic: 6292 Message: 6294

Greg....launched by JP Aerospace from the Black Rock Desert north of Reno, NV....the APRS decodes as all zeroes for lat/lon and altitude.

- Bill WB8ELK

-----Original Message-----
From: Greg Williams <gregwilliams@knology.net>
To: gpsl@yahoogroups.com
Cc: ballooning@yahoogroups.com
Sent: Mon, Dec 14, 2009 2:02 am
Subject: [GPSL] Armchair balloon

Maybe a tad off-topic, but something of interest to someone...

Caught a commercial (posted on Collegehumor) for an HDTV and it was interesting (for me at least) to watch:
http://www.collegehumor.com/video:1926134

An armchair sent aloft to near-space.

I was fascinated with the rigging for the camera angles used during the flight.

SPOILER ALERT: The chair breaks apart after burst...

I'd be curious to know where it was launched (looks like NM maybe?) and if anyone could decipher the packets used in the commercial.

Greg Williams
gregwilliams@...
k4hsm@...

6295. Descending at 7☐10 thousand fpm ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-14 23:36:04 UTC
From: k6rpt
Topic: 6295 Message: 6295

I did my first launch on 09-12-2009 and after the balloon burst, It was descending at 7☐10 thousand fpm until it reached about 25 thousand feet and then it slowed down to 1000 fpm. Is that normal?
-Ron K6RPT

6296. Re: [GPSL] Descending at 7–10 thousand fpm ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-14 23:44:14 UTC
From: Mark Conner
Topic: 6295 Message: 6296

Sounds like a fouled chute that suddenly opened, but hard to say for sure
without a list of altitude/time reports.

73 de Mark N9XTN

On Mon, Dec 14, 2009 at 17:36, k6rpt <Ron@...> wrote:

> I did my first launch on 09-12-2009 and after the balloon burst, It was
> descending at 7–10 thousand fpm until it reached about 25 thousand feet and
> then it slowed down to 1000 fpm. Is that normal?
> -Ron K6RPT
>
>

6297. Re: Descending at 7☐10 thousand fpm ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-15 05:05:12 UTC
From: k6rpt
Topic: 6295 Message: 6297

I have a file, beegps.kml that works with Google Earth of the flight. Would that help? I put an 8" ring at the very bottom of the parachute and I think it should be up closer to the parachute to prevent twisting? I think the line between the balloon and the parachute could have been longer, it was 15'. There was 23 ounces of latex balloon pulling the top of the parachute after it burst, I'm sure that didn't help. One of the pictures you can see pieces of the balloon after it burst; the picture is on the web site, http://www.californianearspaceproject.com/ at the bottom of the first page.
-Ron K6RPT

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> Sounds like a fouled chute that suddenly opened, but hard to say for sure
> without a list of altitude/time reports.
>
> 73 de Mark N9XTN
>
> On Mon, Dec 14, 2009 at 17:36, k6rpt <Ron@...> wrote:
>
> > I did my first launch on 09-12-2009 and after the balloon burst, It was
> > descending at 7☐10 thousand fpm until it reached about 25 thousand feet and
> > then it slowed down to 1000 fpm. Is that normal?
> > -Ron K6RPT
> >
> >
>

6298. Re: [GPSL] Descending at 7–10 thousand fp m ?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-15 05:11:59 UTC
From: Mike Manes
Topic: 6295 Message: 6298

Yup. During ascent, the expanding balloon drag area compensates for the declining air density, but during descent, you just have a fixed parachute area. Air density varies 100:1 from sea level to 100K'.
73 de Mike W5VSI

On 12/14/2009 16:36, k6rpt wrote:
> I did my first launch on 09-12-2009 and after the balloon burst, It was descending at 7–10 thousand fpm until it reached about 25 thousand feet and then it slowed down to 1000 fpm. Is that normal?
> -Ron K6RPT
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6299. Boeing 787 Dreamliner is in the air right now

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-15 18:45:17 UTC
From: Marty Griffin
Topic: 6299 Message: 6299

The Boeing 787 Dreamliner is in the air for its first test flight. It will land again in about 2 hours. Some great history in aviation.

- Marty, WA0GEH, EOSS

For a live video feed: http://787firstflight.newairplane.com/ffindex.html

6300. The well-equipped mobile

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-19 02:14:08 UTC
From: Mike Manes
Topic: 6300 Message: 6300

All that's missing is a stack of yagis for DFing:

http://jalopnik.com/5428829/ham-cramwich-25000-of-communications-gear-in-a-500-car

73 de Mike W5VSI, EOSS

6301. Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 02:25:56 UTC
From: k6rpt
Topic: 6301 Message: 6301

Is the air density at 100k enough for the parachute to open after burst?

-Ron K6RPT

6302. Re: [GPSL] Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 03:03:40 UTC
From: Mike Manes
Topic: 6301 Message: 6302

Well, it's enough to float your balloon with payload, so the answer's
yes. It does help to use a spreader ring on the shroud lines to keep
the skirt a bit open so it'll catch the air ASAP after burst, however.
Note that at that altitude, your decent rate will be about 10x higher
than at sea level, however.

73 de Mike W5VSI

On 12/19/2009 19:25, k6rpt wrote:
> Is the air density at 100k enough for the parachute to open after burst?
>
> -Ron K6RPT
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6303. Re: Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 03:32:28 UTC
From: k6rpt
Topic: 6301 Message: 6303

At what altitude would you see it slowdown to 1000 ftm?

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Well, it's enough to float your balloon with payload, so the answer's
> yes. It does help to use a spreader ring on the shroud lines to keep
> the skirt a bit open so it'll catch the air ASAP after burst, however.
> Note that at that altitude, your decent rate will be about 10x higher
> than at sea level, however.
>
> 73 de Mike W5VSI
>
> On 12/19/2009 19:25, k6rpt wrote:
> > Is the air density at 100k enough for the parachute to open after burst?
> >
> > -Ron K6RPT
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

6304. Re: [GPSL] Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 03:55:57 UTC
From: Idle-Tyme
Topic: 6301 Message: 6304

Ours usually open within a few seconds.

The key is does it do anything?

Nope not really, it falls like a rock for quite a while.

Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

k6rpt wrote:
> Is the air density at 100k enough for the parachute to open after burst?
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.716 / Virus Database: 270.14.115/2576 - Release Date: 12/19/09 13:40:00
>
>

6305. Re: [GPSL] Re: Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 03:59:26 UTC
From: Idle-Tyme
Topic: 6301 Message: 6305

all depends on the weight of the payload, and the type and size of the
chute. and 1000 ftm is pretty slow even at sea level.

Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

k6rpt wrote:
> At what altitude would you see it slowdown to 1000 ftm?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
>> Well, it's enough to float your balloon with payload, so the answer's
>> yes. It does help to use a spreader ring on the shroud lines to keep
>> the skirt a bit open so it'll catch the air ASAP after burst, however.
>> Note that at that altitude, your decent rate will be about 10x higher
>> than at sea level, however.
>>
>> 73 de Mike W5VSI
>>
>> On 12/19/2009 19:25, k6rpt wrote:
>>
>>> Is the air density at 100k enough for the parachute to open after burst?
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>>> -Ron K6RPT
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.716 / Virus Database: 270.14.115/2576 - Release Date: 12/19/09 13:40:00
>
>

6306. Re: [GPSL] Re: Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 04:09:34 UTC
From: Mike Manes
Topic: 6301 Message: 6306

That all depends on the size of the 'chute and the load that it's carrying. EOSS's descent rates just prior to landing are more like 1500 - 2500 fpm at our typical mile-high landing sites.

I have a circular slide rule from U Wyo that runs those calculations. The trajectory prediction programs based on Bill Brown's work characterize descent profiles based on the user-input sea-level descent rate, which is subject to the two variables noted above.

Now, you probably shouldn't fret the landing decent rate too much. If there's a brisk breeze at the landing site, parachute drag across the ground can do a lot more damage than the initial landing impact. If your payload will tolerate being kicked down a flight of concrete stairs, it's probably strong enough.

73 de Mike W5VSI

On 12/19/2009 20:32, k6rpt wrote:
>
> At what altitude would you see it slowdown to 1000 ftm?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Well, it's enough to float your balloon with payload, so the answer's
>> yes. It does help to use a spreader ring on the shroud lines to keep
>> the skirt a bit open so it'll catch the air ASAP after burst, however.
>> Note that at that altitude, your decent rate will be about 10x higher
>> than at sea level, however.
>>
>> 73 de Mike W5VSI
>>
>> On 12/19/2009 19:25, k6rpt wrote:
>>> Is the air density at 100k enough for the parachute to open after burst?
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>>> -Ron K6RPT
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6307. Re: [GPSL] Re: Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 04:55:00 UTC
From: L. Paul Verhage
Topic: 6301 Message: 6307

The 'chute does open. Check my video report on this mission,
http://nearsys.com/arhab/flightdata/2006/g/index.htm

What ever is the landing speed of your payload, it will fall twice as fast
every 36,000 foot increase in altitude.

Paul

On Sat, Dec 19, 2009 at 10:09 PM, Mike Manes <mrmanes@...> wrote:

> That all depends on the size of the 'chute and the load that it's carrying.
> EOSS's descent rates just prior to landing are more like 1500 - 2500 fpm
> at our typical mile-high landing sites.
>
> I have a circular slide rule from U Wyo that runs those calculations. The
> trajectory prediction programs based on Bill Brown's work characterize
> descent profiles based on the user-input sea-level descent rate, which
> is subject to the two variables noted above.
>
> Now, you probably shouldn't fret the landing decent rate too much. If
> there's a brisk breeze at the landing site, parachute drag across the
> ground can do a lot more damage than the initial landing impact. If
> your payload will tolerate being kicked down a flight of concrete
> stairs, it's probably strong enough.
>
> 73 de Mike W5VSI
>
> On 12/19/2009 20:32, k6rpt wrote:
> >
> > At what altitude would you see it slowdown to 1000 ftm?
> >
> > -Ron K6RPT
> >
> > --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
> >>
> >> Well, it's enough to float your balloon with payload, so the answer's
> >> yes. It does help to use a spreader ring on the shroud lines to keep
> >> the skirt a bit open so it'll catch the air ASAP after burst, however.
> >> Note that at that altitude, your decent rate will be about 10x higher
> >> than at sea level, however.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 12/19/2009 19:25, k6rpt wrote:
> >>> Is the air density at 100k enough for the parachute to open after
> burst?

> >>>
> >>> -Ron K6RPT
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Onwards and Upwards,
Paul

6308. Re: [GPSL] Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 11:00:04 UTC
From: wb8elk@aol.com
Topic: 6301 Message: 6308

Ron,

Check out two recent videos I did of the balloon at burst using a Flip Ultra camcorder...you can clearly see the chute opening almost immediately after burst.

http://www.youtube.com/watch?v=YsQb-oWq6d4

This one shows a smoke ring of talcum powder left over from inside the balloon at burst:

http://www.youtube.com/watch?v=iHFPIdShNjU

Also...this is a complete video of the entire flight of our UAH Balloonsat launches this Fall using a Flip pointing at the horizon:

http://www.youtube.com/watch?v=trxqKZcl0EE

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@MySystem.com>
To: GPSL@yahoogroups.com
Sent: Sat, Dec 19, 2009 8:25 pm
Subject: [GPSL] Parachute opening after burst?

Is the air density at 100k enough for the parachute to open after burst?

-Ron K6RPT

6309. Some recent balloon burst and flight videos taken with my Flip Ultra camcorder

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 11:06:44 UTC
From: wb8elk@aol.com
Topic: 6309 Message: 6309

Check out some recent videos I did of the balloon at burst using a Flip Ultra camcorder...you can clearly see the chute opening almost immediately after burst....turn up your volume to hear the balloon pop...it'll make you jump....the slo-mo sounds like a shotgun blast.

http://www.youtube.com/watch?v=YsQb-oWq6d4

This one shows a smoke ring of talcum powder left over from inside the balloon at burst:

http://www.youtube.com/watch?v=iHFPIdShNjU

Also...this is a complete video of the entire flight of one of the UAH Balloonsat launches this Fall using a Flip pointing at the horizon:

http://www.youtube.com/watch?v=trxqKZcl0EE

- Bill WB8ELK

6310. Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-20 19:51:40 UTC
From: k6rpt
Topic: 6310 Message: 6310

Thank you for all the input, I understand the decent characteristics now. I was not concerned with how hard the landing was, I just wanted to understand the decent and when the parachute should open. I watched the videos and after seeing the balloon bursting and then trailing above the opened parachute, I assume this is because of the fast decent at high altitude and as the decent slows the balloon fragments would drop below the parachute. If I'm correct is it best for the balloon fragments to drop below the first payload?

Thank you, Ron K6RPT

6311. Re: [GPSL] Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-21 02:24:48 UTC
From: L. Paul Verhage
Topic: 6310 Message: 6311

That's right about the fast descent. I cut my load line around 18 feet
long. I want the balloon to drop over the parachute, rather on top of it.

Paul

On Sun, Dec 20, 2009 at 1:51 PM, k6rpt <Ron@...> wrote:

> Thank you for all the input, I understand the decent characteristics now. I
> was not concerned with how hard the landing was, I just wanted to understand
> the decent and when the parachute should open. I watched the videos and
> after seeing the balloon bursting and then trailing above the opened
> parachute, I assume this is because of the fast decent at high altitude and
> as the decent slows the balloon fragments would drop below the parachute. If
> I'm correct is it best for the balloon fragments to drop below the first
> payload?
>
> Thank you, Ron K6RPT
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6312. Re: [GPSL] Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-21 03:38:55 UTC
From: Mike Manes
Topic: 6310 Message: 6312

Hi Ron,

Actually, it's best to get rid of the balloon shards ASAP after
burst to keep them from fouling and/or destabilizing the parachute.
That's what the EOSS fast release device does rather effectively.

I say "rather" effectively, because even with that device working
properly, we've brought back a few grams of stringy shards on the shroud
lines. I believe this is because the burst event is pretty explosive,
and the neck of the balloon and any attached shards may pass below
the parachute even though the lift line is already separated. Relaxation
of tension in the stretchy nylon lift line may also play a role in
accelerating the neck downward before the tension-sensing release acts.

Efforts to get the design of that device into CAD format have been
unsuccessful so far, but the concept is simple and easily duplicated from
what's on the EOSS web site.

73 de Mike W5VSI, EOSS

On 12/20/2009 12:51, k6rpt wrote:
> Thank you for all the input, I understand the decent characteristics now.
I was not concerned with how hard the landing was, I just wanted to understand
the decent and when the parachute should open. I watched the videos and after
seeing the balloon bursting and then trailing above the opened parachute, I
assume this is because of the fast decent at high altitude and as the decent
slows the balloon fragments would drop below the parachute. If I'm correct is
it best for the balloon fragments to drop below the first payload?
>
> Thank you, Ron K6RPT
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6313. Re: [GPSL] Parachute opening after burst?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-22 03:52:51 UTC
From: Mike Manes
Topic: 6301 Message: 6313

Hi Bill,
That burst video really shows how badly a big mess of shards can
destabilize the parachute during initial descent.
73 de Mike W5VSI

On 12/20/2009 04:00, wb8elk@... wrote:
>
>
> Ron,
> Check out two recent videos I did of the balloon at burst using a Flip
> Ultra camcorder...you can clearly see the chute opening almost
> immediately after burst.
> http://www.youtube.com/watch?v=YsQb-oWq6d4
> This one shows a smoke ring of talcum powder left over from inside the
> balloon at burst:
> http://www.youtube.com/watch?v=iHFPIdShNjU
>
>
> Also...this is a complete video of the entire flight of our UAH
> Balloonsat launches this Fall using a Flip pointing at the horizon:
> http://www.youtube.com/watch?v=trxqKZcl0EE
>
> - Bill WB8ELK
> -----Original Message-----
> From: k6rpt <Ron@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, Dec 19, 2009 8:25 pm
> Subject: [GPSL] Parachute opening after burst?
>
> Is the air density at 100k enough for the parachute to open after burst?
>
> -Ron K6RPT
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6314. Re: Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-22 06:13:27 UTC
From: k6rpt
Topic: 6310 Message: 6314

Thanks Mike, I looked at the EOSS website and the fast, burst-sensing release. Have you ever had it release to soon because of turbulence?

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> Actually, it's best to get rid of the balloon shards ASAP after
> burst to keep them from fouling and/or destabilizing the parachute.
> That's what the EOSS fast release device does rather effectively.
>
> I say "rather" effectively, because even with that device working
> properly, we've brought back a few grams of stringy shards on the shroud
> lines. I believe this is because the burst event is pretty explosive,
> and the neck of the balloon and any attached shards may pass below
> the parachute even though the lift line is already separated. Relaxation
> of tension in the stretchy nylon lift line may also play a role in
> accelerating the neck downward before the tension-sensing release acts.
>
> Efforts to get the design of that device into CAD format have been
> unsuccessful so far, but the concept is simple and easily duplicated from
> what's on the EOSS web site.
>
> 73 de Mike W5VSI, EOSS
>
> On 12/20/2009 12:51, k6rpt wrote:
> > Thank you for all the input, I understand the decent characteristics now.
> I was not concerned with how hard the landing was, I just wanted to understand
> the decent and when the parachute should open. I watched the videos and after
> seeing the balloon bursting and then trailing above the opened parachute, I
> assume this is because of the fast decent at high altitude and as the decent
> slows the balloon fragments would drop below the parachute. If I'm correct is
> it best for the balloon fragments to drop below the first payload?
> >
> > Thank you, Ron K6RPT
> >
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

6315. Re: [GPSL] Re: Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-22 22:08:34 UTC
From: Mike Manes
Topic: 6310 Message: 6315

Hi Ron,

The anaeroid cell keeps the locking arm engaged until we're above 70 - 75K',
where there's little turbulence. It also keeps the jaws locked thru the
launch. THe only time it's failed was when a launch was attempted with
15 ft of slack in the lift line - the rapid lateral acceleration when the
balloon took up the slack acted on the then-unbalanced locking arm, causing
it to open and let the balloon fly free, unburdened by the payload string :={.
I've since statically balanced the arm and put in a stiffer retention spring
between the arm and the anaeroid and discouraged that launch technique.

So the answer's no.

73 de Mike W5VSI

On 12/21/2009 23:13, k6rpt wrote:
> Thanks Mike, I looked at the EOSS website and the fast, burst-sensing release.
Have you ever had it release to soon because of turbulence?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Hi Ron,
>>
>> Actually, it's best to get rid of the balloon shards ASAP after
>> burst to keep them from fouling and/or destabilizing the parachute.
>> That's what the EOSS fast release device does rather effectively.
>>
>> I say "rather" effectively, because even with that device working
>> properly, we've brought back a few grams of stringy shards on the shroud
>> lines. I believe this is because the burst event is pretty explosive,
>> and the neck of the balloon and any attached shards may pass below
>> the parachute even though the lift line is already separated. Relaxation
>> of tension in the stretchy nylon lift line may also play a role in
>> accelerating the neck downward before the tension-sensing release acts.
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>> Efforts to get the design of that device into CAD format have been
>> unsuccessful so far, but the concept is simple and easily duplicated from
>> what's on the EOSS web site.
>>
>> 73 de Mike W5VSI, EOSS
>>
>> On 12/20/2009 12:51, k6rpt wrote:
>>> Thank you for all the input, I understand the decent characteristics now.

>> I was not concerned with how hard the landing was, I just wanted to understand
>> the decent and when the parachute should open. I watched the videos and after
>> seeing the balloon bursting and then trailing above the opened parachute, I
>> assume this is because of the fast decent at high altitude and as the decent
>> slows the balloon fragments would drop below the parachute. If I'm correct is
>> it best for the balloon fragments to drop below the first payload?
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>>> Thank you, Ron K6RPT
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>> Mike Manes mrmanes@... Tel: 303-979-4899
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>> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6316. Re: Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-23 02:13:31 UTC
From: k6rpt
Topic: 6310 Message: 6316

Thanks Mike, You did a great job engineering that device!

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> The anaeroid cell keeps the locking arm engaged until we're above 70 - 75K',
> where there's little turbulence. It also keeps the jaws locked thru the
> launch. THe only time it's failed was when a launch was attempted with
> 15 ft of slack in the lift line - the rapid lateral acceleration when the
> balloon took up the slack acted on the then-unbalanced locking arm, causing
> it to open and let the balloon fly free, unburdened by the payload string :={.
> I've since statically balanced the arm and put in a stiffer retention spring
> between the arm and the anaeroid and discouraged that launch technique.
>
> So the answer's no.
>
> 73 de Mike W5VSI
>
> On 12/21/2009 23:13, k6rpt wrote:
> > Thanks Mike, I looked at the EOSS website and the fast, burst-sensing release.
> Have you ever had it release to soon because of turbulence?
> >
> > -Ron K6RPT
> >
> > --- In GPSL@...m, Mike Manes<mrmanes@> wrote:
> >>
> >> Hi Ron,
> >>
> >> Actually, it's best to get rid of the balloon shards ASAP after
> >> burst to keep them from fouling and/or destabilizing the parachute.
> >> That's what the EOSS fast release device does rather effectively.
> >>
> >> I say "rather" effectively, because even with that device working
> >> properly, we've brought back a few grams of stringy shards on the shroud
> >> lines. I believe this is because the burst event is pretty explosive,
> >> and the neck of the balloon and any attached shards may pass below
> >> the parachute even though the lift line is already separated. Relaxation
> >> of tension in the stretchy nylon lift line may also play a role in
> >> accelerating the neck downward before the tension-sensing release acts.
> >>
> >> Efforts to get the design of that device into CAD format have been
> >> unsuccessful so far, but the concept is simple and easily duplicated from

> >> what's on the EOSS web site.
> >>
> >> 73 de Mike W5VSI, EOSS
> >>
> >> On 12/20/2009 12:51, k6rpt wrote:
> >>> Thank you for all the input, I understand the decent characteristics now.
> >> I was not concerned with how hard the landing was, I just wanted to understand
> >> the decent and when the parachute should open. I watched the videos and after
> >> seeing the balloon bursting and then trailing above the opened parachute, I
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> >> slows the balloon fragments would drop below the parachute. If I'm correct is
> >> it best for the balloon fragments to drop below the first payload?
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> >>> Thank you, Ron K6RPT
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> >> --
> >> Mike Manes mrmanes@ Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
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> Mike Manes mrmanes@... Tel: 303-979-4899
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> A. Einstein
>

6317. Re: [GPSL] Re: Is it best for the balloon fragments to drop below the first payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-23 04:21:50 UTC
From: Mike Manes
Topic: 6310 Message: 6317

Awr, shux, Ron. 'Twern't "engineered" - more like kludged up from a
vague idea. I mean, wotcha expect from an EE set loose in a machine shop?
Plus a healthy dose of Pure-D Warranteed dumb luck.

In that light, I'd encourage you to sneak into your neighborhood machine
shop under cover of darkness and come up with your own design - kinda
like Joe WB9SBD did.

tnx es 73 de Mike W5VSI

On 12/22/2009 19:13, k6rpt wrote:
> Thanks Mike, You did a great job engineering that device!
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Hi Ron,
>>
>> The anaeroid cell keeps the locking arm engaged until we're above 70 - 75K',
>> where there's little turbulence. It also keeps the jaws locked thru the
>> launch. THe only time it's failed was when a launch was attempted with
>> 15 ft of slack in the lift line - the rapid lateral acceleration when the
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>> I've since statically balanced the arm and put in a stiffer retention spring
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>>
>> So the answer's no.
>>
>> 73 de Mike W5VSI
>>
>> On 12/21/2009 23:13, k6rpt wrote:
>>> Thanks Mike, I looked at the EOSS website and the fast, burst-sensing release.
>> Have you ever had it release to soon because of turbulence?
>>>
>>> -Ron K6RPT
>>>
>>> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@> wrote:
>>>>
>>>> Hi Ron,
>>>>
>>>> Actually, it's best to get rid of the balloon shards ASAP after
>>>> burst to keep them from fouling and/or destabilizing the parachute.

>>>> That's what the EOSS fast release device does rather effectively.
>>>>
>>>> I say "rather" effectively, because even with that device working
>>>> properly, we've brought back a few grams of stringy shards on the shroud
>>>> lines. I believe this is because the burst event is pretty explosive,
>>>> and the neck of the balloon and any attached shards may pass below
>>>> the parachute even though the lift line is already separated. Relaxation
>>>> of tension in the stretchy nylon lift line may also play a role in
>>>> accelerating the neck downward before the tension-sensing release acts.
>>>>
>>>> Efforts to get the design of that device into CAD format have been
>>>> unsuccessful so far, but the concept is simple and easily duplicated from
>>>> what's on the EOSS web site.
>>>>
>>>> 73 de Mike W5VSI, EOSS
>>>>
>>>> On 12/20/2009 12:51, k6rpt wrote:
>>>>> Thank you for all the input, I understand the decent characteristics now.
>>>> I was not concerned with how hard the landing was, I just wanted to understand
>>>> the decent and when the parachute should open. I watched the videos and after
>>>> seeing the balloon bursting and then trailing above the opened parachute, I
>>>> assume this is because of the fast decent at high altitude and as the decent
>>>> slows the balloon fragments would drop below the parachute. If I'm correct is
>>>> it best for the balloon fragments to drop below the first payload?
>>>>>
>>>>> Thank you, Ron K6RPT
>>>>>
>>>> --
>>>> Mike Manes mrmanes@ Tel: 303-979-4899
>>>> "Things should be made as simple as possible, but not more so."
>>>> A. Einstein
>>>>
>>>
>>>
>>>
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>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>

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>
> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6318. Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 04:44:26 UTC
From: Mike Manes
Topic: 6318 Message: 6318

A friend of yours, Harry? Lawnchair Larry 2.0!

http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6319. Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 05:01:41 UTC
From: HarryM
Topic: 6319 Message: 6319

>A friend of yours, Harry? Lawnchair Larry 2.0!
>
> http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/

Nope! Never heard of him.

BTW

MERRY CHRISTMAS
We had a blizzard today.

6320. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 17:19:33 UTC
From: Idle-Tyme
Topic: 6319 Message: 6320

Doesn't any newspaper have a proof reader anymore? Or at least spell
check? Prang?
What is a "Prang?"

Maybe "Prank" yes,, but Prang geech!

Joe WB9SBD

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

HarryM wrote:
>
>
>
> >A friend of yours, Harry? Lawnchair Larry 2.0!
> >
> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
> Nope! Never heard of him.
>
>
> BTW
>
> */_MERRY CHRISTMAS_/*
> *We had a blizzard today.*
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00
>
>

6321. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 17:23:59 UTC
From: Pete Lilja
Topic: 6319 Message: 6321

A prang is a crash of an airship of some (any) type.

On Fri, Dec 25, 2009 at 11:19 AM, Idle-Tyme <nss@...> wrote:

>
>
> Doesn't any newspaper have a proof reader anymore? Or at least spell
> check? Prang?
> What is a "Prang?"
>
> Maybe "Prank" yes,, but Prang geech!
>
> Joe WB9SBD
>
> *The Original Rolling Ball Clock
> http://www.idle-tyme.com*
>
>
>
> HarryM wrote:
>
>
> >A friend of yours, Harry? Lawnchair Larry 2.0!
> >
> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
> Nope! Never heard of him.
>
>
> BTW
>
> *MERRY CHRISTMAS*
> *We had a blizzard today.*
>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00
>
>
>
>
>

6322. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 17:34:19 UTC
From: Idle-Tyme
Topic: 6319 Message: 6322

wow I have never ever heard that word before. My spellckeck even
flagged it as a non word and had no suggestions for replacement. I went
to an online dictionary ane they gave,,

prang

?verb (used with object) British Slang.
1. to collide with; bump into.

2. to destroy or severely damage by a bombing raid; bomb (an enemy
target).

3. to destroy or shoot down (an enemy aircraft).

Interesting,

I slid off the road and pranged into a tree.

Joe WB9SBD

*The Original Rolling Ball Clock
http://www.idle-tyme.com*

Pete Lilja wrote:
>
>
> A prang is a crash of an airship of some (any) type.
>
> On Fri, Dec 25, 2009 at 11:19 AM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
>
>
>
> Doesn't any newspaper have a proof reader anymore? Or at least
> spell check? Prang?
> What is a "Prang?"
>
> Maybe "Prank" yes,, but Prang geech!
>
> Joe WB9SBD
>
>
> *The Original Rolling Ball Clock
> http://www.idle-tyme.com <http://www.idle-tyme.com/>*
>
>

>
> HarryM wrote:
>>
>> >A friend of yours, Harry? Lawnchair Larry 2.0!
>> >
>> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
>> Nope! Never heard of him.
>>
>>
>> BTW
>>
>> */_MERRY CHRISTMAS_/*
>> *We had a blizzard today.*
>> ---
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com <http://www.avg.com/>
>> Version: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00
>>
>>
>
>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.724 / Virus Database: 270.14.119/2586 - Release Date: 12/25/09 03:33:00
>
>

6323. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 17:37:42 UTC
From: Pete Lilja
Topic: 6319 Message: 6323

Hmm, I guess any type of crash.

It's a common term used amongst high power rocket fliers after a, ah, mishap.

Pete
kc0gpb

On Fri, Dec 25, 2009 at 11:34 AM, Idle-Tyme <nss@...> wrote:

>
>
> wow I have never ever heard that word before. My spellckeck even flagged
> it as a non word and had no suggestions for replacement. I went to an
> online dictionary ane they gave,,
>
> prang–verb (used with object) British Slang. 1. to collide with; bump
> into. 2. to destroy or severely damage by a bombing raid; bomb (an enemy
> target). 3. to destroy or shoot down (an enemy aircraft).Interesting,
>
> I slid off the road and pranged into a tree.
>
>
> Joe WB9SBD
>
> *The Original Rolling Ball Clock
> http://www.idle-tyme.com*
>
>
>
> Pete Lilja wrote:
>
> A prang is a crash of an airship of some (any) type.
>
> On Fri, Dec 25, 2009 at 11:19 AM, Idle-Tyme <nss@...> wrote:
>
>>
>>
>> Doesn't any newspaper have a proof reader anymore? Or at least spell
>> check? Prang?
>> What is a "Prang?"
>>
>> Maybe "Prank" yes,, but Prang geech!
>>
>> Joe WB9SBD

>>
>> *The Original Rolling Ball Clock
>> http://www.idle-tyme.com*
>>
>>
>>
>> HarryM wrote:
>>
>>
>> >A friend of yours, Harry? Lawnchair Larry 2.0!
>> >
>> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
>> Nope! Never heard of him.
>>
>>
>> BTW
>>
>> *MERRY CHRISTMAS*
>> *We had a blizzard today.*
>>
>> ------------------------------
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00
>>
>>
>>
>>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
>
> Version: 9.0.724 / Virus Database: 270.14.119/2586 - Release Date: 12/25/09 03:33:00
>
>
>
>
>

6324. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 18:40:08 UTC
From: Mike Manes
Topic: 6319 Message: 6324

Hi HArry,

Back at'cha, and hope Santy was generous to you and yours last night,
despite the blizzard.

73 all!
de Mike W5VSI

On 12/24/2009 22:01, HarryM wrote:
>
>
> >A friend of yours, Harry? Lawnchair Larry 2.0!
> >
> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
> Nope! Never heard of him.
> BTW
> */_MERRY CHRISTMAS_/*
> *We had a blizzard today.*
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6325. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 18:43:21 UTC
From: Mike Manes
Topic: 6319 Message: 6325

Hi Joe,

"prang" is Brit slang for "crash" - look it up in Funkin Wagnall's ...

"America and England are two nations separated by a common language"
W. Churchill(?)

73 es MX de Mike W5VSI

On 12/25/2009 10:19, Idle-Tyme wrote:
>
>
> Doesn't any newspaper have a proof reader anymore? Or at least spell
> check? Prang?
> What is a "Prang?"
>
> Maybe "Prank" yes,, but Prang geech!
>
> Joe WB9SBD
>
> *The Original Rolling Ball Clock
> http://www.idle-tyme.com*
>
>
>
> HarryM wrote:
>> >A friend of yours, Harry? Lawnchair Larry 2.0!
>> >
>> > http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/
>> Nope! Never heard of him.
>> BTW
>> */_MERRY CHRISTMAS_/*
>> *We had a blizzard today.*
>> ---
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG -www.avg.com
>> Version: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00
>>
>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6326. Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-25 21:42:34 UTC
From: Mark Conner
Topic: 6319 Message: 6326

Prang = UK English for "crash", usually meaning an aircraft.

73 de Mark N9XTN

On Fri, Dec 25, 2009 at 11:19, Idle-Tyme <nss@...> wrote:

>
>
> Doesn't any newspaper have a proof reader anymore? Or at least spell
> check? Prang?
> What is a "Prang?"
>
> Maybe "Prank" yes,, but Prang geech!
>
> Joe WB9SBD
>

6327. Re: [GPSL] Re: Homemade airship prang closes highway in Oklaho ma • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2009-12-26 06:35:55 UTC
From: wb8elk@aol.com
Topic: 6319 Message: 6327

Hi Joe....it's British slang for an accident or near-accident.

- Bill WB8ELK

-----Original Message-----
From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Fri, Dec 25, 2009 11:19 am
Subject: Re: [GPSL] Re: Homemade airship prang closes highway in Oklahoma • The Register

Doesn't any newspaper have a proof reader anymore? Or at least spell check? Prang?
What is a "Prang?"

Maybe "Prank" yes,, but Prang geech!

Joe WB9SBD

The Original Rolling Ball Clock
http://www.idle-tyme.com

HarryM wrote:

>A friend of yours, Harry? Lawnchair Larry 2.0!
>
> http://www.theregister.co.uk/2009/12/23/airship_prang_oklahoma/

Nope! Never heard of him.

BTW

MERRY CHRISTMAS
We had a blizzard today.

No virus found in this incoming message.
hecked by AVG - www.avg.com
ersion: 9.0.724 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 02:11:00

6328. atv freq(s)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 03:18:57 UTC
From: Pete
Topic: 6328 Message: 6328

KWU in Salina KS, EM18, is building a payload with ATV. Wondering what frequency will be the best for this area? Got an inquiry into the KC atv group and looking to see if a group is active in Wichita with the intent not to interfere with a atv repeater they might have. Looks like the simplex atv freq is 427.250 according to the ARRL band plan. What has been done in the past? Know of any active groups that might be affected by our flight?

tnx, Pete NØOY

6329. Re: [GPSL] atv freq(s)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 04:24:18 UTC
From: Mike Manes
Topic: 6328 Message: 6329

Hi Pete,

EOSS runs its NTSC DSB-AM ATV on 426.25. The other common freq, 439.25, has sidebands that get into the repeater input freq sub-band. We didn't get any gripes when we flew it out of Lawrence or Hutchinson at the GPSLs.

73 de Mike W5VSI

On 1/1/2010 20:18, Pete wrote:
> KWU in Salina KS, EM18, is building a payload with ATV. Wondering what frequency will be the best for this area? Got an inquiry into the KC atv group and looking to see if a group is active in Wichita with the intent not to interfere with a atv repeater they might have. Looks like the simplex atv freq is 427.250 according to the ARRL band plan. What has been done in the past? Know of any active groups that might be affected by our flight?
>
> tnx, Pete NØOY
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6330. Re: [GPSL] atv freq(s)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 04:42:39 UTC
From: Mark Garrett
Topic: 6328 Message: 6330

I want to say that the 427.250 was used to get away from satellite operations. I would think that if you did run a watt or two you probably would not bother anyone else unless you were close in and close frequency.

BTW: Launch one again my way Pete, we now have an APRS node here that works pretty well in the area.

Mark, KA9SZX

From: Pete <petesias@...>
To: GPSL@yahoogroups.com
Sent: Fri, January 1, 2010 9:18:57 PM
Subject: [GPSL] atv freq(s)

KWU in Salina KS, EM18, is building a payload with ATV. Wondering what frequency will be the best for this area? Got an inquiry into the KC atv group and looking to see if a group is active in Wichita with the intent not to interfere with a atv repeater they might have. Looks like the simplex atv freq is 427.250 according to the ARRL band plan. What has been done in the past? Know of any active groups that might be affected by our flight?

tnx, Pete NØOY

6331. Re: [GPSL] atv freq(s)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 06:32:44 UTC
From: Michael Bogard
Topic: 6328 Message: 6331

Hi Pete an group.
The ATV National Simplex frequency is 439.250 MHZ. Most ATV'ers watch that frequency and listen to 144.340 MHZ FM for simplex contacts.The ATV'ers will use horizontal antennas for dx. My first balloon package that I sent up years ago was seen 400 miles at 100,000 feet. That is if you have a little power (i used 4 to 5 watts) and a horizontal antenna with a little gain like the ones w6oal sells. Vertical antennas a lot of times don't have the band with that is needed when sending wide band video with audio. As far as the ATV repeater here in Kansas City Kansas I have it down right now but will be back up within weeks. It uses 439.250 input and that is on a vertical antenna and if you got a signal into it that would be great so don't worry about us. The ATV repeater in Topeka Kansas is 1.2 gig FM input and 427.250 am output but is still not on the air at this time. There is just a small number of ATV'ers west and south of KC but the most are east of St
Louis. Have a great flight and let me know what date and I will look forward to looking for it. 73's Mike KDØFW Kansas City Mo.

--- On Fri, 1/1/10, Pete <petesias@...> wrote:

From: Pete <petesias@...>
Subject: [GPSL] atv freq(s)
To: GPSL@yahoogroups.com
Date: Friday, January 1, 2010, 9:18 PM

KWU in Salina KS, EM18, is building a payload with ATV. Wondering what frequency will be the best for this area? Got an inquiry into the KC atv group and looking to see if a group is active in Wichita with the intent not to interfere with a atv repeater they might have. Looks like the simplex atv freq is 427.250 according to the ARRL band plan. What has been done in the past? Know of any active groups that might be affected by our flight?

tnx, Pete NØOY

6332. Unknown Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 20:57:28 UTC
From: Pete Lilja
Topic: 6332 Message: 6332

A coworker recently gave me a meteorological balloon pictured in this link: http://i33.photobucket.com/albums/d94/bigheadpete/IMG_0818.jpg Its folded size fits just behind the description paper shown.

Am I correct in thinking it's was made in 6/87 and is a 160 gm in size?

I'm not sure what I'll do with it but I'm sure some idea will come up.

Thanks!
Pete
KCØGPB

6333. Re: [Balloon_Sked] Unknown Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 21:07:12 UTC
From: Mark Conner
Topic: 6332 Message: 6333

6/87 is the likely manufacturing date. The ML-160A is a 100g pilot balloon.

http://www.tpub.com/content/meteorology/TM-750-5-3/TM-750-5-30090.htm

- Mark

On Sat, Jan 2, 2010 at 14:57, Pete Lilja <plilja@...> wrote:

>
>
> A coworker recently gave me a meteorological balloon pictured in this
> link: http://i33.photobucket.com/albums/d94/bigheadpete/IMG_0818.jpg Its
> folded size fits just behind the description paper shown.
>
> Am I correct in thinking it's was made in 6/87 and is a 160 gm in size?
>
> I'm not sure what I'll do with it but I'm sure some idea will come up.
>
> Thanks!
> Pete
> KCØGPB
>
>
>

6334. Re: [Balloon_Sked] Unknown Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-02 21:28:20 UTC
From: Mike Manes
Topic: 6332 Message: 6334

Hi Pete,
My guess is that its mfr date is 02/91. You could get an idea of its size in grams by weighing it; don't pull it from the package unless you're planning on flying it shortly - or repackage it in a ziplock bag and keep it in the dark to prevent deterioration. The packaging shouldn't add any more than 10 gm to the weight. Now, most balloons have commercial shelf life of less than 5 years with proper storage - but you may get lucky.
73 de Mike W5VSI

On 1/2/2010 13:57, Pete Lilja wrote:
>
>
> A coworker recently gave me a meteorological balloon pictured in this
> link: http://i33.photobucket.com/albums/d94/bigheadpete/IMG_0818.jpg
> Its folded size fits just behind the description paper shown.
>
> Am I correct in thinking it's was made in 6/87 and is a 160 gm in size?
>
> I'm not sure what I'll do with it but I'm sure some idea will come up.
>
> Thanks!
> Pete
> KCØGPB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6335. ATV Frequencies

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-03 00:05:20 UTC
From: wb8elk@aol.com
Topic: 6335 Message: 6335

hi Pete,

In your area, you can use any of the common ATV frequencies....439.25 MHz would be received by more folks in the midwest who are on ATV as that is their usual contact frequency. However, check to see if there is any interference by local 440 FM repeaters that are near the passband. 434 MHz is a little clearer frequency but if you are in town, you'll see some interference by wireless thermometers that operate on 433.92 MHz....a common gift for Christmas...the interference starts to decrease a few months later when the batteries fail. 427.25 or 426.25 are usually fairly clear frequencies and good to use as well....we've done a number of flights on both of those frequencies with little interference....but for those near the Canadian border (Line A) you can't use those two...but that shouldn't affect you in Kansas.

I'd recommend setting up a test where you put the balloon ATV transmitter on a campus roof and trying to receive it from a few miles away. Do the test on each of the above frequencies and choose the one with the least interference.

73s de Bill WB8ELK

6336. Re: [Balloon_Sked] Unknown Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-03 21:24:30 UTC
From: Pete Lilja
Topic: 6332 Message: 6336

Thanks fo all the replies. I think I have a better understanding of what
I've got now.

I believe Mike's date idea is "more" correct. That jibes better with dates
that I know when this may have been acquired.

Pete

On Sat, Jan 2, 2010 at 4:00 PM, Scott Poole <swpoole@...> wrote:

> Oops,
>
> I forgot to paste the details in my previous post.
>
> *National Item Identification Number*
>
> 00-151-7773
> 001517773
> 6660-00-151-7773
> 6660001517773
>
> *National Stock Number*
>
> *Item Name*
>
> BALLOON,METEOROLOGICAL
>
> *Federal Supply Class*
>
> 6660
>
> *Description*
>
> A balloon designed to have a predetermined rate of free ascent when
> inflated with a specific volume of a lighter-than-air gas.
>
> *Commercial and Government Entity Code (Supplier Data)*
> ------------------------------
>
> Parts Hangar
> partshangar.com
>
> 9438 US Hwy 19 N. #311
> Port Richey, FL 34668
>
> Ph. (727) 619-7700

> Fax. (727) 255-5042
>
> Click here to submit an RFQ (Request For Quote)<http://www.tpub.com/contact.htm>
>
> ------------------------------
>
> 17486
>
> ------------------------------
>
> GRACE W R AND CO
> DEWEY AND ALMY CHEMICAL DIV
> 62 WHITTEMORE AVE
> CAMBRIDGE
> MA
> 02140
> 617-876-1400
> ------------------------------
>
> 80063
>
> ------------------------------
>
> ------------------------------
>
> 80063
>
> ------------------------------
>
> ------------------------------
>
> *Reference Numbers (Part Numbers)*
>
> J100
> MIL-B-10743 <http://www.tpub.com/content/MIL-SPEC/MIL-B/MIL-B-10743E>
> ML-160-A
> ML160A
> 74-56TYPEML160A
>
> *Required Categories*
>
> WEIGHT
> COLOR
> SHAPE
> BODY DIAMETER
> NECK LENGTH
> NECK DIAMETER
> MINIMUM BURSTIN
>
> *Required Description*

>
> 100.0 GRAMS
> BLACK OR
> BLUE, DARK
> SPHERICAL
> 22.000 INCHES MAXIMUM
> 1.875 INCHE
>
>
> ------------------------------
> *From:* Pete Lilja <plilja@...>
> *To:* Balloon_Sked@yahoogroups.com; gpsl <gpsl@yahoogroups.com>
> *Sent:* Sat, January 2, 2010 2:57:28 PM
> *Subject:* [Balloon_Sked] Unknown Balloon
>
>
>
> A coworker recently gave me a meteorological balloon pictured in this
> link: http://i33.photobucket.com/albums/d94/bigheadpete/IMG_0818.jpg Its
> folded size fits just behind the description paper shown.
>
> Am I correct in thinking it's was made in 6/87 and is a 160 gm in size?
>
> I'm not sure what I'll do with it but I'm sure some idea will come up.
>
> Thanks!
> Pete
> KCØGPB
>
>
>
>

6337. Capturing solar eclipse from balloon platform?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 03:26:47 UTC
From: Mark Conner
Topic: 6337 Message: 6337

http://eclipse.gsfc.nasa.gov/SEplot/SEplot2001/SE2012May20A.GIF

This eclipse occurs near sunset on Sunday, May 20, 2012 in the western US. The maximum eclipse occurs on a path from northwest California southeast towards central New Mexico. The ANSR group would see about 90% coverage from their usual sites. From Nebraska we would have about 75% coverage right at sunset.

If we planned for burst at sunset, it wouldn't be terribly dark at the landing for the recovery. Worst-case we'd have to get it the next morning.

I don't know if the photos would be terribly interesting, but they might be kind of unique. I don't know if we'd have enough altitude to see the gradation in the sunlight from the lunar shadow. You can see the shadow on weather satellite imagery in geo orbit.

73 de Mark N9XTN

6338. Re: [GPSL] Capturing solar eclipse from balloon platform?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 09:24:49 UTC
From: wb8elk@aol.com
Topic: 6337 Message: 6338

Hi Mark,

We (myself, WA6SVT and KC6CCC) launched a balloon in the early 90's from San Clemente, California to view the annular eclipse....we did this as a spur of the moment event with three of us getting together the night before the eclipse, putting a pile of balloon electronics on the floor and building the payload and pointing mechanism....In the wee hours and suffering from lack of sleep, we used light sensors separated by a barrier connected a servo that controlled a fin in order to point the cameras at the Sun. It worked great...but in a total eclipse, you'll have to use a gyro/accelerometer solution since their won't be any sunlight to make the servo/light sensor work.

A group in Germany in 1999 flew a balloon that looked at the Earth below and studied the shadow...that worked well as well. I was about 100 miles from them and got rained out...and they did too, but at least their balloon could see the shadow above the clouds and rain.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Sun, Jan 3, 2010 9:26 pm
Subject: [GPSL] Capturing solar eclipse from balloon platform?

http://eclipse.gsfc.nasa.gov/SEplot/SEplot2001/SE2012May20A.GIF

This eclipse occurs near sunset on Sunday, May 20, 2012 in the western US. The maximum eclipse occurs on a path from northwest California southeast towards central New Mexico. The ANSR group would see about 90% coverage from their usual sites. From Nebraska we would have about 75% coverage right at sunset.

If we planned for burst at sunset, it wouldn't be terribly dark at the landing for the recovery. Worst-case we'd have to get it the next morning.

I don't know if the photos would be terribly interesting, but they might be kind of unique. I don't know if we'd have enough altitude to see the gradation in the sunlight from the lunar shadow. You can see the shadow on weather satellite imagery in geo orbit.

73 de Mark N9XTN

=

6339. Re: [GPSL] Capturing solar eclipse from balloon platform?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 14:08:37 UTC
From: L. Paul Verhage
Topic: 6337 Message: 6339

Yes, at least if nothing else, you won't be called on clouds. I just sent
an article to N&V on a sun sensor. I'll have to see if this can be expanded
in capability.

Paul

On Mon, Jan 4, 2010 at 3:24 AM, <wb8elk@...> wrote:

>
>
> Hi Mark,
>
> We (myself, WA6SVT and KC6CCC) launched a balloon in the early 90's from
> San Clemente, California to view the annular eclipse....we did this as a
> spur of the moment event with three of us getting together the night before
> the eclipse, putting a pile of balloon electronics on the floor and building
> the payload and pointing mechanism....In the wee hours and suffering from
> lack of sleep, we used light sensors separated by a barrier connected a
> servo that controlled a fin in order to point the cameras at the Sun. It
> worked great...but in a total eclipse, you'll have to use a
> gyro/accelerometer solution since their won't be any sunlight to make the
> servo/light sensor work.
>
> A group in Germany in 1999 flew a balloon that looked at the Earth below
> and studied the shadow...that worked well as well. I was about 100 miles
> from them and got rained out...and they did too, but at least their balloon
> could see the shadow above the clouds and rain.
>
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL list <GPSL@yahoogroups.com>
> Sent: Sun, Jan 3, 2010 9:26 pm
> Subject: [GPSL] Capturing solar eclipse from balloon platform?
>
>
>
> http://eclipse.gsfc.nasa.gov/SEplot/SEplot2001/SE2012May20A.GIF
>
> This eclipse occurs near sunset on Sunday, May 20, 2012 in the western US.
> The maximum eclipse occurs on a path from northwest California southeast
> towards central New Mexico. The ANSR group would see about 90% coverage
> from their usual sites. From Nebraska we would have about 75% coverage
> right at sunset.
>

> If we planned for burst at sunset, it wouldn't be terribly dark at the
> landing for the recovery. Worst-case we'd have to get it the next morning.
>
> I don't know if the photos would be terribly interesting, but they might be
> kind of unique. I don't know if we'd have enough altitude to see the
> gradation in the sunlight from the lunar shadow. You can see the shadow on
> weather satellite imagery in geo orbit.
>
> 73 de Mark N9XTN
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Onwards and Upwards,
Paul

6340. RE: [GPSL] Capturing solar eclipse from balloon platform?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 14:55:58 UTC
From: Earl Foster
Topic: 6337 Message: 6340

I have been working on a high altitude space imaging platform for some time now. The plan is to use it for celestial imaging. While I am still a little away from a launch, the first mission will be solar imaging with a small Celestron C70 spotting scope, type 2+ filter, and a Nikon 9M Coolpix.

I am planning to use 3 light sensors to triangulate, Two 3 axis's digital compasses for positioning, and a gyroscope to measure angular acceleration to adjust the servo speed accordingly to maintain a relative fix on the sun.

After doing some quick research I would think that even in a total solar eclipse the sensitivity of the light sensors would be enough to maintain a relative fix on the sun.

-earl
www.hapb.net

To: GPSL@yahoogroups.com
From: nearsys@...
Date: Mon, 4 Jan 2010 08:08:37 -0600
Subject: Re: [GPSL] Capturing solar eclipse from balloon platform?

Yes, at least if nothing else, you won't be called on clouds. I just sent an article to N&V on a sun sensor. I'll have to see if this can be expanded in capability.

Paul

On Mon, Jan 4, 2010 at 3:24 AM, <wb8elk@...> wrote:

Hi Mark,

We (myself, WA6SVT and KC6CCC) launched a balloon in the early 90's from San Clemente, California to view the annular eclipse....we did this as a spur of the moment event with three of us getting together the night before the eclipse, putting a pile of balloon electronics on the floor and building the payload and pointing mechanism....In the wee hours and suffering from lack of sleep, we used light sensors separated by a barrier connected a servo that controlled a fin in order to point the cameras at the Sun. It worked great...but in a total eclipse, you'll have to use a gyro/accelerometer solution since their won't be any sunlight to make the servo/light sensor work.

A group in Germany in 1999 flew a balloon that looked at the Earth below and studied the shadow...that worked well as well. I was about 100 miles from them and got rained out...and they did too, but at least their balloon could see the shadow above the clouds and rain.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@gmail.com>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Sun, Jan 3, 2010 9:26 pm

Subject: [GPSL] Capturing solar eclipse from balloon platform?

http://eclipse.gsfc.nasa.gov/SEplot/SEplot2001/SE2012May20A.GIF

This eclipse occurs near sunset on Sunday, May 20, 2012 in the western US. The maximum eclipse occurs on a path from northwest California southeast towards central New Mexico. The ANSR group would see about 90% coverage from their usual sites. From Nebraska we would have about 75% coverage right at sunset.

If we planned for burst at sunset, it wouldn't be terribly dark at the landing for the recovery. Worst-case we'd have to get it the next morning.

I don't know if the photos would be terribly interesting, but they might be kind of unique. I don't know if we'd have enough altitude to see the gradation in the sunlight from the lunar shadow. You can see the shadow on weather satellite imagery in geo orbit.

73 de Mark N9XTN

--
Onwards and Upwards,
Paul

_____
Your E-mail and More On-the-Go. Get Windows Live Hotmail Free.
http://clk.atdmt.com/GBL/go/171222985/direct/01/

6341. Re: [GPSL] Capturing solar eclipse from balloon platform?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 15:04:22 UTC
From: Idle-Tyme
Topic: 6337 Message: 6341
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark.

The penumbra would be very hard to detect. even from orbit you really
can not see it. Only the totality shadow can usually be seen.

Just like during an eclipse on the ground, the ground really doesn't
darken until like the last few percent is covered at all.

Hey Bill I remember you flying at sunset during an eclipse in
California a while ago. But forgot if you got anything.

Joe WB9SBD
****

*The Original Rolling Ball Clock
Idle-Tyme.com <http://www.idle-tyme.com>*

Mark Conner wrote:
>
>
> http://eclipse.gsfc.nasa.gov/SEplot/SEplot2001/SE2012May20A.GIF
>
> This eclipse occurs near sunset on Sunday, May 20, 2012 in the western
> US. The maximum eclipse occurs on a path from northwest California
> southeast towards central New Mexico. The ANSR group would see about
> 90% coverage from their usual sites. From Nebraska we would have
> about 75% coverage right at sunset.
>
> If we planned for burst at sunset, it wouldn't be terribly dark at the
> landing for the recovery. Worst-case we'd have to get it the next
> morning.
>
> I don't know if the photos would be terribly interesting, but they
> might be kind of unique. I don't know if we'd have enough altitude to
> see the gradation in the sunlight from the lunar shadow. You can see
> the shadow on weather satellite imagery in geo orbit.
>
> 73 de Mark N9XTN
>
>
>
>
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> --
>

>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.725 / Virus Database: 270.14.124/2599 - Release Date: 01/04/10 02:24:00
>
>

6342. Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 22:32:03 UTC
From: k6rpt
Topic: 6342 Message: 6342

I would like to log the external temperature on my next flight, any suggestions for a good temperature sensor data Logger?

-Ron K6RPT

6343. Re: [GPSL] Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-04 22:47:06 UTC
From: Mark Conner
Topic: 6342 Message: 6343

The simplest solution is the Dallas/Maxim Thermochron. They are roughly the size and weight of a stack of four dimes. If you Google "dallas thermochron" you'll find plenty of links.

Ordering one may be a challenge. Dallas/Maxim always seems to be out of stock, and people have reported that their 13-26 week lead times are optimistic. I've ordered from these guys before with good success: http://www.embeddeddatasystems.com/

You'll need a hardware reader in addition to the individual thermochrons. The software is free and can be downloaded from Maxim. Thermochrons start at about $22 each, the reader is under $30.

73 de Mark N9XTN

On Mon, Jan 4, 2010 at 16:32, k6rpt <Ron@...> wrote:

> I would like to log the external temperature on my next flight, any
> suggestions for a good temperature sensor data Logger?
>
> -Ron K6RPT
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>
> Yahoo! Groups Links
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6344. Re: [GPSL] Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 00:54:47 UTC
From: Bruce Coates
Topic: 6342 Message: 6344

Hi Ron

What APRS tracker do you use? All of the Opentrackers and the TinyTrak 4 have LM335 temperature sensors. I added a second LM335 external sensor to my Opentraker 1. If you didn't care about internal temperature, it's quit easy to remote the existing sensor in either tracker. Neither will log the data but they'll both allow you to transmit the readings. If you already use some type of analog logger like a Logomatic, it would be quite easy to read an LM335 and later calculate the temperature values. I don't know enough about the one-wire sensors to comment on how to use them.

73, Bruce
VE5BNC

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Monday, January 04, 2010 4:32 PM
Subject: [GPSL] Temperature sensor data Logger

I would like to log the external temperature on my next flight, any suggestions for a good temperature sensor data Logger?

-Ron K6RPT

6345. RE: [GPSL] Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 02:39:03 UTC
From: Earl Foster
Topic: 6342 Message: 6345

Ron,

I found this all-in-one usb temperature data logger
http://www.microdaq.com/fourier/microlite_usb_logger.php

If you are into PIC programming then the Dallas 1-wire temperature probes would be a good choice. Sparkfun, Mouser, Parallax carry a variety of them depending on your programming skills.
-earl

To: GPSL@yahoogroups.com
From: bruce.coates@...
Date: Mon, 4 Jan 2010 18:54:47 -0600
Subject: Re: [GPSL] Temperature sensor data Logger

Hi Ron

What APRS tracker do you use? All of the Opentrackers and the TinyTrak 4 have LM335 temperature sensors. I added a second LM335 external sensor to my Opentraker 1. If you didn't care about internal temperature, it's quit easy to remote the existing sensor in either tracker. Neither will log the data but they'll both allow you to transmit the readings. If you already use some type of analog logger like a Logomatic, it would be quite easy to read an LM335 and later calculate the temperature values. I don't know enough about the one-wire sensors to comment on how to use them.

73, Bruce
VE5BNC

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Monday, January 04, 2010 4:32 PM
Subject: [GPSL] Temperature sensor data Logger

I would like to log the external temperature on my next flight, any suggestions for a good temperature sensor data Logger?

-Ron K6RPT

_____
Hotmail: Powerful Free email with security by Microsoft.
http://clk.atdmt.com/GBL/go/171222986/direct/01/

6346. Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 03:09:45 UTC
From: nstich48
Topic: 6342 Message: 6346

I have also had good delivery from embedded data systems. We have ordered over 100 of them to use in refrigerated vending machines (pop & food). I had gotten a couple from Dallas years ago and decided that they would work in the vending business. I have about 6 of them that I use for my personal use.

The only down side is that they only go down to -40 F or -40 C. Which is not quite low enough to capture the entire flight. But they provide lots of interesting data and are very easy to use.

Nick Stich
K0NMS

> I've ordered from these guys before with good success:
> http://www.embeddeddatasystems.com/
>
> You'll need a hardware reader in addition to the individual thermochrons.
> The software is free and can be downloaded from Maxim. Thermochrons start
> at about $22 each, the reader is under $30.

6347. Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 05:40:18 UTC
From: k6rpt
Topic: 6342 Message: 6347

The APRS trackers I'm using do not have any temperature capabilities, so I'm looking for good temperature data Logger to log the coldest external temperature. I like the Dallas/Maxim Thermochron that Mark listed, I will use it for internal temperature, but for external temperature I think I would need something that goes lower. What is the lowest temperature that has been recorded during a flight? The all-in-one usb temperature data logger that Earl listed goes down to -50c is that low enough?

-Ron K6RPT

6348. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 12:51:40 UTC
From: Mark Conner
Topic: 6342 Message: 6348

If you want a complete temp profile, you'll need something that goes to
about -70C. Tough to find, though.

73 de Mark N9XTN

On Mon, Jan 4, 2010 at 23:40, k6rpt <Ron@...> wrote:

> The APRS trackers I'm using do not have any temperature capabilities, so
> I'm looking for good temperature data Logger to log the coldest external
> temperature. I like the Dallas/Maxim Thermochron that Mark listed, I will
> use it for internal temperature, but for external temperature I think I
> would need something that goes lower. What is the lowest temperature that
> has been recorded during a flight? The all-in-one usb temperature data
> logger that Earl listed goes down to -50c is that low enough?
>
> -Ron K6RPT
>
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>
> Yahoo! Groups Links
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6349. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 13:16:19 UTC
From: Bruce Coates
Topic: 6342 Message: 6349

Hi Ron

We routinely see temperatures near -60C. Our LM335Z sensors are rated to -55C but will work at lower temperatures with reduced accuracy. I don't recall seeing anything rated below -55C. An all-in-one logger may be capable of sensing below -50 but the rest of the electronics may freeze below that.

Good luck

Bruce

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Monday, January 04, 2010 11:40 PM
Subject: [GPSL] Re: Temperature sensor data Logger

The APRS trackers I'm using do not have any temperature capabilities, so I'm looking for good temperature data Logger to log the coldest external temperature. I like the Dallas/Maxim Thermochron that Mark listed, I will use it for internal temperature, but for external temperature I think I would need something that goes lower. What is the lowest temperature that has been recorded during a flight? The all-in-one usb temperature data logger that Earl listed goes down to -50c is that low enough?

-Ron K6RPT

6350. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-05 13:56:57 UTC
From: L. Paul Verhage
Topic: 6342 Message: 6350

You could use a Hobo datalogger and thermistor. I wrote an article on that for the Society of Amateur Scientists and it's still online (www.sas.org/tcs).

<shameless commericalism>
You could also purchase a BalloonSat Mini and Temperature Array kits from my website (nearsys.com/catalog)
</shameless commericalism>

Paul

On Tue, Jan 5, 2010 at 7:16 AM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Ron
>
> We routinely see temperatures near -60C. Our LM335Z sensors are rated to
> -55C but will work at lower temperatures with reduced accuracy. I don't
> recall seeing anything rated below -55C. An all-in-one logger may be
> capable of sensing below -50 but the rest of the electronics may freeze
> below that.
>
> Good luck
>
> Bruce
>
>
>
> ----- Original Message -----
> *From:* k6rpt <Ron@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Monday, January 04, 2010 11:40 PM
> *Subject:* [GPSL] Re: Temperature sensor data Logger
>
>
>
> The APRS trackers I'm using do not have any temperature capabilities, so
> I'm looking for good temperature data Logger to log the coldest external
> temperature. I like the Dallas/Maxim Thermochron that Mark listed, I will
> use it for internal temperature, but for external temperature I think I
> would need something that goes lower. What is the lowest temperature that
> has been recorded during a flight? The all-in-one usb temperature data
> logger that Earl listed goes down to -50c is that low enough?
>
> -Ron K6RPT

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>

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Onwards and Upwards,
Paul

6351. Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 00:02:48 UTC
From: k6rpt
Topic: 6342 Message: 6351

Nice job on the BalloonSat boards Paul; I will keep all of them in mind for my projects. My only concern is the -55C rating on the LM335 sensor. I found a Dry Ice Data Recorder w/ External Input at http://www.microdaq.com/logtag/dry-ice-data-logger.php the price adds up when you buy the logger, sensor and software. Measurement Range with (External Sensor) is -80°C to 40°C.

-Ron K6RPT

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> You could use a Hobo datalogger and thermistor. I wrote an article on that
> for the Society of Amateur Scientists and it's still online (www.sas.org/tcs
>).
>
> <shameless commericalism>
> You could also purchase a BalloonSat Mini and Temperature Array kits from my
> website (nearsys.com/catalog)
> </shameless commericalism>
>
> Paul
>
> On Tue, Jan 5, 2010 at 7:16 AM, Bruce Coates <bruce.coates@...>wrote:
>
> > >
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> > > Hi Ron
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> > > We routinely see temperatures near -60C. Our LM335Z sensors are rated to
> > > -55C but will work at lower temperatures with reduced accuracy. I don't
> > > recall seeing anything rated below -55C. An all-in-one logger may be
> > > capable of sensing below -50 but the rest of the electronics may freeze
> > > below that.
> > >
> > > Good luck
> > >
> > > Bruce
> > >
> > >
> > >
> > > ----- Original Message -----
> > > *From:* k6rpt <Ron@...>
> > > *To:* GPSL@yahoogroups.com
> > > *Sent:* Monday, January 04, 2010 11:40 PM
> > > *Subject:* [GPSL] Re: Temperature sensor data Logger
> > >

> >
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> > The APRS trackers I'm using do not have any temperature capabilities, so
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> > logger that Earl listed goes down to -50c is that low enough?
> >
> > -Ron K6RPT
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> --
> Onwards and Upwards,
> Paul
>

6352. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 13:50:55 UTC
From: L. Paul Verhage
Topic: 6342 Message: 6352

As it was mentioned earlier, the LM335 still works below -55. My record of flights has spreadsheets of weather data recorded during missions. The weather station uses the LM335 and recorded temperature readings to below -60. The data is smooth, so I suspect there's no abrupt errors introduced.

Paul

On Tue, Jan 5, 2010 at 6:02 PM, k6rpt <Ron@...> wrote:

>
> Nice job on the BalloonSat boards Paul; I will keep all of them in mind for
> my projects. My only concern is the -55C rating on the LM335 sensor. I found
> a Dry Ice Data Recorder w/ External Input at
> http://www.microdaq.com/logtag/dry-ice-data-logger.php the price adds up
> when you buy the logger, sensor and software. Measurement Range with
> (External Sensor) is -80°C to 40°C.
>
> -Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > You could use a Hobo datalogger and thermistor. I wrote an article on
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> > for the Society of Amateur Scientists and it's still online (
> www.sas.org/tcs
> >).
> >
> > <shameless commericalism>
> > You could also purchase a BalloonSat Mini and Temperature Array kits from
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> > website (nearsys.com/catalog)
> > </shameless commericalism>
> >
> > Paul
> >
> > On Tue, Jan 5, 2010 at 7:16 AM, Bruce Coates <bruce.coates@...>wrote:
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> > >
> > >
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> > > We routinely see temperatures near -60C. Our LM335Z sensors are rated
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> > > recall seeing anything rated below -55C. An all-in-one logger may be
> > > capable of sensing below -50 but the rest of the electronics may freeze
> > > below that.
> > >
> > > Good luck
> > >
> > > Bruce
> > >
> > >
> > >
> > > ----- Original Message -----
> > > *From:* k6rpt <Ron@...>
> > > *To:* GPSL@yahoogroups.com
> > > *Sent:* Monday, January 04, 2010 11:40 PM
> > > *Subject:* [GPSL] Re: Temperature sensor data Logger
> > >
> > >
> > >
> > > The APRS trackers I'm using do not have any temperature capabilities,
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> > > I'm looking for good temperature data Logger to log the coldest
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> > > would need something that goes lower. What is the lowest temperature
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> > > logger that Earl listed goes down to -50c is that low enough?
> > >
> > > -Ron K6RPT
> > >
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> > Onwards and Upwards,
> > Paul
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> Yahoo! Groups Links

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Onwards and Upwards,
Paul

6353. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 15:35:02 UTC
From: BASE
Topic: 6342 Message: 6353

This temperature sensor data logger discussion raises some interesting fundamental issues. The -55 deg Celsius limit is simply the lower limit of the testing conducted by National Semiconductor on the LM335. Looking at their data sheet, the calibrated error on the device appears to be fairly linear on the low temperature end. This is consistent with Paul's data.

However, we must always remember that normal specification sheets do not consider the unique environment that is found by high altitude balloons. As is noted on their datasheet: Note 1: Accuracy measurements are made in a well-stirred oil bath. For other conditions, self heating must be considered.

Additionally, the performance may be affected by the reduced air pressure.

We have had some success with using simple diodes as temperature sensors. There is the opportunity for someone to fly multiple sensors together on multiple flights to confirm the performance of each type.

Howard

--- On Wed, 1/6/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Re: Temperature sensor data Logger
To: GPSL@yahoogroups.com
Date: Wednesday, January 6, 2010, 8:50 AM

As it was mentioned earlier, the LM335 still works below -55. My record of flights has spreadsheets of weather data recorded during missions. The weather station uses the LM335 and recorded temperature readings to below -60. The data is smooth, so I suspect there's no abrupt errors introduced.

Paul

On Tue, Jan 5, 2010 at 6:02 PM, k6rpt <Ron@mysystem. com> wrote:

Nice job on the BalloonSat boards Paul; I will keep all of them in mind for my projects. My only concern is the -55C rating on the LM335 sensor. I found a Dry Ice Data Recorder w/ External Input at http://www.microdaq .com/logtag/ dry-ice-data- logger.php the price adds up when you buy the logger, sensor and software. Measurement Range with (External Sensor) is -80°C to 40°C.

-Ron K6RPT

--- In GPSL@yahoogroups. com, "L. Paul Verhage" <nearsys@...> wrote:
>
> You could use a Hobo datalogger and thermistor. I wrote an article on that

> for the Society of Amateur Scientists and it's still online (www.sas.org/ tcs
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> <shameless commericalism>
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> website (nearsys.com/ catalog)
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> Paul
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> On Tue, Jan 5, 2010 at 7:16 AM, Bruce Coates <bruce.coates@ ...>wrote:

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> > > Good luck

> > >
> > > Bruce
> > >
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> > >
> > > ----- Original Message -----
> > > *From:* k6rpt <Ron@...>
> > > *To:* GPSL@yahoogroups. com

> > > *Sent:* Monday, January 04, 2010 11:40 PM
> > > *Subject:* [GPSL] Re: Temperature sensor data Logger
> > >
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> > > The APRS trackers I'm using do not have any temperature capabilities, so

> > > I'm looking for good temperature data Logger to log the coldest external
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> Onwards and Upwards,
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Yahoo! Groups Links

   Individual Email | Traditional

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Onwards and Upwards,
Paul

6354. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 16:52:02 UTC
From: mw@omsrc.com
Topic: 6342 Message: 6354

In the NTBP it was found the DS1820 also will go well beyond it's spec
(-89F measured and reported) and be fairly accurate based on other
references known at the time of the flights. Of course this device is
digital so it will not interface directly to most data loggers, but
can be used easily with a Parallax Stamp or other embedded system.

To aid with better temperature measurement where self-heating is
likely (thin air providing less heat conductivity) use of a heat-sink
is very beneficial. The heat-sink will alleviate some of the self
heating of the sensor if the surface area of the sensor is more
affected by a predominent ambient environment. To conduct heat away
from the sensor and provide more ambient air effect on the sensor, I
install the sensor in a brass tube of a few inches of length and epoxy
it in place, making sure the body of the sensor is adequately
contacting the tube with heat-conductive grease and complimentary
diameters of the TO-92 device.

--Michael K5NOT

Quoting BASE <basedepauw@yahoo.com>:

> This temperature sensor data logger discussion raises some
> interesting fundamental issues. The -55 deg Celsius limit is simply
> the lower limit of the testing conducted by National Semiconductor
> on the LM335. Looking at their data sheet, the calibrated error on
> the device appears to be fairly linear on the low temperature end.
> This is consistent with Paul's data.
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> However, we must always remember that normal specification sheets do
> not consider the unique environment that is found by high altitude
> balloons. As is noted on their datasheet: Note 1: Accuracy
> measurements are made in a well-stirred oil bath. For other
> conditions, self heating must be considered.
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> --- On Wed, 1/6/10, L. Paul Verhage <nearsys@...> wrote:
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> From: L. Paul Verhage <nearsys@...>

> Subject: Re: [GPSL] Re: Temperature sensor data Logger
> To: GPSL@yahoogroups.com
> Date: Wednesday, January 6, 2010, 8:50 AM
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> http://www.microdaq .com/logtag/ dry-ice-data- logger.php the price
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6355. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 16:57:04 UTC
From: L. Paul Verhage
Topic: 6342 Message: 6355

Another issue is sun exposure. I keep my sensor inside a white tube to reflect sunlight away, but to let air flow (what little air there is).

Paul

On Wed, Jan 6, 2010 at 10:52 AM, <mw@...> wrote:

> In the NTBP it was found the DS1820 also will go well beyond it's spec
> (-89F measured and reported) and be fairly accurate based on other
> references known at the time of the flights. Of course this device is
> digital so it will not interface directly to most data loggers, but
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> >> > *To:* GPSL@yahoogroups. com
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Onwards and Upwards,
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6356. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 22:59:53 UTC
From: Mike Manes
Topic: 6342 Message: 6356

The largest source of error with the LM335-class of temp sensors is
self-heating from the power dissipated from the bias current, especially
at high altitude where convective heat transfer is very weak. This can
be minimized by shutting off the bias current except during the measurement
interval, but that's not commonly available using ordinary beacon generators.
It also helps to bond the package to a well ventilated heat sink exposed to
the outside air flow. Self-heating errors show up clearly as differences in
temp measurements at specific altitudes between the slow ascent and fast
descent. This anomoly can be a handy way to confirm burst, however - just
look for a very abrupt drop on outside air temp telemetry :=}.

Another error source is solar heating which can be minimized using a aun
shade or painting it with an IR-reflective paint (beats me where on can
find it, though).

If one really wants precision air temp measurements, then consider a Platinum
RTD from Omega or such, and keep the bias off except during resistance
measurements. Or use a thermocouple with an ice point and signal conditioner.
The solar heating issue would still remain, however.

73 de Mike W5VSI
CTO EOSS

On 1/6/2010 08:35, BASE wrote:
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> Yahoo! Groups Links
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> (Yahoo! ID required)
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> GPSL-fullfeatured@ yahoogroups. com
> </mc/compose?to=GPSL-fullfeatured@yahoogroups.com>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6357. Re: [GPSL] Re: Temperature sensor data Logger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-06 23:49:59 UTC
From: L. Paul Verhage
Topic: 6342 Message: 6357

The LM335 also shows that the internal temperature of the near spacecraft drops at balloon burst, but that it takes a little time for the cooling to be seen inside the Styrofoam airframe.

Paul

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> > > for the Society of Amateur Scientists and it's still online
> > (www.sas.org/ tcs <http://www.sas.org/tcs>
> > >).
> > >
> > > <shameless commericalism>
> > > You could also purchase a BalloonSat Mini and Temperature
> > Array kits from my
> > > website (nearsys.com/ catalog <http://nearsys.com/catalog>)
> > > </shameless commericalism>
> > >
> > > Paul
> > >
> > > On Tue, Jan 5, 2010 at 7:16 AM, Bruce Coates <bruce.coates@
> > ...>wrote:
> > >
> > > >
> > > >
> > > > Hi Ron
> > > >
> > > > We routinely see temperatures near -60C. Our LM335Z sensors
> > are rated to
> > > > -55C but will work at lower temperatures with reduced
> > accuracy. I don't
> > > > recall seeing anything rated below -55C. An all-in-one
> > logger may be
> > > > capable of sensing below -50 but the rest of the
> > electronics may freeze
> > > > below that.
> > > >
> > > > Good luck
> > > >
> > > > Bruce
> > > >
> > > >
> > > >
> > > > ----- Original Message -----
> > > > *From:* k6rpt <Ron@...>
> > > > *To:* GPSL@yahoogroups. com
> > </mc/compose?to=GPSL@yahoogroups.com>
> > > > *Sent:* Monday, January 04, 2010 11:40 PM
> > > > *Subject:* [GPSL] Re: Temperature sensor data Logger
> > > >
> > > >
> > > >
> > > > The APRS trackers I'm using do not have any temperature
> > capabilities, so
> > > > I'm looking for good temperature data Logger to log the
> > coldest external
> > > > temperature. I like the Dallas/Maxim Thermochron that Mark
> > listed, I will

> > > > use it for internal temperature, but for external
> > temperature I think I
> > > > would need something that goes lower. What is the lowest
> > temperature that
> > > > has been recorded during a flight? The all-in-one usb
> > temperature data
> > > > logger that Earl listed goes down to -50c is that low
> enough?
> > > >
> > > > -Ron K6RPT
> > > >
> > > >
> > > >
> > > >
> > >
> > >
> > >
> > >
> > > --
> > > Onwards and Upwards,
> > > Paul
> > >
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> >
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> >
> > (Yahoo! ID required)
> >
> > GPSL-fullfeatured@ yahoogroups. com
> > </mc/compose?to=GPSL-fullfeatured@yahoogroups.com>
> >
> >
> >
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> > --
> > Onwards and Upwards,
> > Paul
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> >
>

> --
> Mike Manes mrmanes@gmail.com Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

6358. GPSL 2010 lodging

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-16 00:04:14 UTC
From: BASE
Topic: 6358 Message: 6358

Dear all,

Does anyone have a recommendation for lodging for GPSL 2010 in Hutchinson?

I look forward to seeing you all again.

Howard

6359. Re: [GPSL] GPSL 2010 lodging

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-16 00:36:08 UTC
From: Mike Manes
Topic: 6358 Message: 6359

I'd recommend AGAINST the Holiday Inn. Worst room I've ever had - even
worse than Motel 6's.
73 de Mike W5VSI

On 1/15/2010 17:04, BASE wrote:
> Dear all,
>
> Does anyone have a recommendation for lodging for GPSL 2010 in Hutchinson?
>
> I look forward to seeing you all again.
>
> Howard
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6360. Re: [GPSL] GPSL 2010 lodging

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-16 01:51:31 UTC
From: Zack Clobes
Topic: 6358 Message: 6360

I suppose I need to get some information updated on the website...

We will be meeting at the Cosmosphere, and there aren't any hotels in the immediate vicinity. The Days Inn got good reviews on Google, and is fairly close. The Holiday Inn and Grand Prairie are also in the same basic spot. The Grand Prarie has a neat in-door swimming pool that would be good for kids, but the people that have stayed there have given it less-than rave reviews (noise, older-style rooms, expensive, etc).

The Hampton Inn Hutchinson also got good reviews, and I believe is the newest hotel in town. Note, Google Maps shows it on Main Street, but it's actually at 11th and K-61, right next to an Office Max.

Sorry I can't be more specific - I just live here. I don't use the hotels.. ;-)

Zack

PS Mike, wasn't it the Grand Prairie that you disliked so much?

On Fri, Jan 15, 2010 at 6:36 PM, Mike Manes <mrmanes@...> wrote:

>
>
> I'd recommend AGAINST the Holiday Inn. Worst room I've ever had - even
> worse than Motel 6's.
> 73 de Mike W5VSI
>
>
> On 1/15/2010 17:04, BASE wrote:
> > Dear all,
> >
> > Does anyone have a recommendation for lodging for GPSL 2010 in
> Hutchinson?
> >
> > I look forward to seeing you all again.
> >
> > Howard
> >
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >

> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6361. Re: [GPSL] GPSL 2010 lodging

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-16 03:44:07 UTC
From: Mark Conner
Topic: 6358 Message: 6361

As I recall, we stayed at the Comfort Inn on 17th Ave in 2004 and the hotel was fine. Can't believe it's been almost six years since I went to that GPSL (I missed 2006 due to a funeral).

73 de Mark N9XTN

On Fri, Jan 15, 2010 at 19:51, Zack Clobes <zclobes@...> wrote:

>
>
> I suppose I need to get some information updated on the website...
>
> We will be meeting at the Cosmosphere, and there aren't any hotels in the
> immediate vicinity. The Days Inn got good reviews on Google, and is fairly
> close. The Holiday Inn and Grand Prairie are also in the same basic spot.
> The Grand Prarie has a neat in-door swimming pool that would be good for
> kids, but the people that have stayed there have given it less-than rave
> reviews (noise, older-style rooms, expensive, etc).
>
> The Hampton Inn Hutchinson also got good reviews, and I believe is the
> newest hotel in town. Note, Google Maps shows it on Main Street, but it's
> actually at 11th and K-61, right next to an Office Max.
>
>
> Sorry I can't be more specific - I just live here. I don't use the
> hotels.. ;-)
>
> Zack
>
> PS Mike, wasn't it the Grand Prairie that you disliked so much?
>
>
>
> On Fri, Jan 15, 2010 at 6:36 PM, Mike Manes <mrmanes@...> wrote:
>
>>
>>
>> I'd recommend AGAINST the Holiday Inn. Worst room I've ever had - even
>> worse than Motel 6's.
>> 73 de Mike W5VSI
>>
>>
>> On 1/15/2010 17:04, BASE wrote:
>> > Dear all,
>> >
>> > Does anyone have a recommendation for lodging for GPSL 2010 in

>> Hutchinson?
>> >
>> > I look forward to seeing you all again.
>> >
>> > Howard
>> >
>>
>

6362. Re: [GPSL] GPSL 2010 lodging

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-17 20:06:01 UTC
From: L. Paul Verhage
Topic: 6358 Message: 6362

This is the 10th GPSL. Should we celebrate?

Who would have thought that having Weatherwise magazine ask about covering a near space launch would have lead to this?

Paul

On Fri, Jan 15, 2010 at 9:44 PM, Mark Conner <mconner1@...> wrote:

>
>
> As I recall, we stayed at the Comfort Inn on 17th Ave in 2004 and the hotel
> was fine. Can't believe it's been almost six years since I went to that
> GPSL (I missed 2006 due to a funeral).
>
> 73 de Mark N9XTN
>
>
> On Fri, Jan 15, 2010 at 19:51, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> I suppose I need to get some information updated on the website...
>>
>> We will be meeting at the Cosmosphere, and there aren't any hotels in the
>> immediate vicinity. The Days Inn got good reviews on Google, and is fairly
>> close. The Holiday Inn and Grand Prairie are also in the same basic spot.
>> The Grand Prarie has a neat in-door swimming pool that would be good for
>> kids, but the people that have stayed there have given it less-than rave
>> reviews (noise, older-style rooms, expensive, etc).
>>
>> The Hampton Inn Hutchinson also got good reviews, and I believe is the
>> newest hotel in town. Note, Google Maps shows it on Main Street, but it's
>> actually at 11th and K-61, right next to an Office Max.
>>
>>
>> Sorry I can't be more specific - I just live here. I don't use the
>> hotels.. ;-)
>>
>> Zack
>>
>> PS Mike, wasn't it the Grand Prairie that you disliked so much?
>>
>>
>>
>> On Fri, Jan 15, 2010 at 6:36 PM, Mike Manes <mrmanes@...> wrote:

>>
>>>
>>>
>>> I'd recommend AGAINST the Holiday Inn. Worst room I've ever had - even
>>> worse than Motel 6's.
>>> 73 de Mike W5VSI
>>>
>>>
>>> On 1/15/2010 17:04, BASE wrote:
>>> > Dear all,
>>> >
>>> > Does anyone have a recommendation for lodging for GPSL 2010 in
>>> Hutchinson?
>>> >
>>> > I look forward to seeing you all again.
>>> >
>>> > Howard
>>> >
>>>
>>
>
>
>
>

--
Onwards and Upwards,
Paul

6363. NASA Titan moon-balloons to run on cloud fuel • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-18 23:45:01 UTC
From: Mike Manes
Topic: 6363 Message: 6363

"Patio gas" is Limey for LPG (methane). Kewl concept! But one
must provide O2 for combustion.
73 de Mike W5VSI

http://www.theregister.co.uk/2010/01/15/titan_patio_gas_hot_air_balloons/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6364. Re: [GPSL] NASA Titan moon-balloons to run on cloud fuel • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-19 03:16:45 UTC
From: Mark Conner
Topic: 6363 Message: 6364

Patio gas and LPG are a mix of butane and propane. Titan's atmosphere
has a little methane and other light hydrocarbons.

Some more details at http://en.wikipedia.org/wiki/Titan_Saturn_System_Mission

73 de Mark N9XTN

On Mon, Jan 18, 2010 at 17:45, Mike Manes <mrmanes@...> wrote:
> "Patio gas" is Limey for LPG (methane). Kewl concept! But one
> must provide O2 for combustion.
> 73 de Mike W5VSI
>
> http://www.theregister.co.uk/2010/01/15/titan_patio_gas_hot_air_balloons/
> --
> Mike Manes   mrmanes@gmail.com   Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6365. Video capture solutions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-19 03:25:31 UTC
From: Mark Conner
Topic: 6365 Message: 6365

Video gurus,

I'm in the process of digitizing everything I have on tape, including a couple dozen VHS-C tapes from past NSTAR flights. I recently upgraded to a new homebuilt Win7 system and on the same Newegg order I purchased a Diamond VC500 USB video capture device. However, I have been very dissatisfied with the hardware itself and the driver software. During the capture process it tends to drop frames frequently, abort the capture entirely, and the driver software does not have a way to set a maximum capture time - you must stop it manually, which means babysitting it or chopping off hours of blank screen at the end of the file. Plus the MPEG compression it uses is nasty and the other options are worse.

I don't need broadcast quality, but I'm not looking for the bottom end of the consumer market like this particular device appears to be. I'm guessing a PCI card would be superior to a USB/Firewire device. Any recommendations, esp. systems know to work on Win7?

73 de Mark N9XTN

6366. Re: [GPSL] Video capture solutions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-19 13:53:56 UTC
From: James Hannon
Topic: 6365 Message: 6366

I believe that the issue of quality is not USB or PCI but rather what method of encoding the device uses. The inexpensive devices use the processor in the PC to do the compression. This takes quite a bit of CPU power and if the PC is distracted doing other things it could cause dropouts ect. Other devices use hardware encoders on the device, these should not have capacity problems. Problem is I am not sure how you discover which encoding method a particular device uses.
I have a Diamond Wonder HD 650 PCI tv tuner card. In addition to the analog and digital tv tuner it has S video and composite video inputs for video capture. To be honest I have not used it in the capture mode from these inputs but I have successfully recorded off the air analog TV with it with no dropout problems. Which should be the same with regard to capacity. It also does a good job of recording off the air digital HD tv but this is already encoded.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Mark Conner" <mconner1@...>
Sent 1/18/2010 9:25:31 PM
To: "GPSL list" <GPSL@yahoogroups.com>
Subject: [GPSL] Video capture solutionsVideo gurus,
I'm in the process of digitizing everything I have on tape, including a couple dozen VHS-C tapes from past NSTAR flights. I recently upgraded to a new homebuilt Win7 system and on the same Newegg order I purchased a Diamond VC500 USB video capture device. However, I have been very dissatisfied with the hardware itself and the driver software. During the capture process it tends to drop frames frequently, abort the capture entirely, and the driver software does not have a way to set a maximum capture time - you must stop it manually, which means babysitting it or chopping off hours of blank screen at the end of the file. Plus the MPEG compression it uses is nasty and the other options are worse.
I don't need broadcast quality, but I'm not looking for the bottom end of the consumer market like this particular device appears to be. I'm guessing a PCI card would be superior to a USB/Firewire device. Any recommendations, esp. systems know to work on Win7?
73 de Mark N9XTN

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

6367. Re: [GPSL] Video capture solutions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-19 20:57:41 UTC
From: dvpatterson@comcast.net
Topic: 6365 Message: 6367

You might try a direct capture device, like the Pinnacle Video Transfer. (I purchased mine when woot .com had it up for ~$80.) It does direct-to- USB device MPEG -4 encoding, so you can record to a high-speed USB HD , then use your new computing power for editing. The only problem that I have with it is that it interlaces frames, which works well for DVD authoring, but requires some post-recording work to make it YouTube friendly. Otherwise, I've been very happy with the quality of the compression.

For computer-based capture, I've always used FireWire devices for full broadcast quality without any trouble, even 5 years ago. The biggest thing that helps there is to have a HD that's dedicated to the capture process (not just a partition), and make sure that the write speed can keep up with the specs for your selected capture device. While there is the consideration of available processor cycles for the compression, if the heads get moved off of the write position on the HD platter for some background OS process, you'll see drops for sure.

Hope that helps!

-David Patterson
KB9QLS

__ ·–’–· __ –

Reply to sender | Reply to group Messages in this topic (2)
Recent Activity:

Visit Your Group Start a New Topic

MARKETPLACE

Going Green: Your Yahoo! Groups resource for green living
Yahoo! Groups
Switch to: Text-Only , Daily Digest • Unsubscribe • Terms of Use

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__ ’–·–’ __ –

6368. Geiger counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-21 14:00:16 UTC
From: L. Paul Verhage
Topic: 6368 Message: 6368

If anyone is interested in a Geiger counter for near space missions, Electronic Goldmine is selling a kit for $79.95. It won't detect alpha rays, but is about half the cost of the Aware Electrojnics GM-60s that I fly.

Since it has a blinking LED display (along side the speaker), you could count the voltage pulses across the LED with a COUNT command.

Here's the link,
http://www.goldmine-elec-products.com/prodinfo.asp?number=C6979

--
Onwards and Upwards,
Paul

6369. Re: NASA Titan moon-balloons to run on cloud fuel ï¿½ The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-21 17:44:19 UTC
From: n1ltv
Topic: 6363 Message: 6369

> Patio gas and LPG are a mix of butane and propane.

Mark,

Thanks for mentioning that LPG can contain a considerable
fraction of butane, which I didn't realize.

More details, including a heating value comparison with natural
gas (almost all methane), at wikipedia:

http://en.wikipedia.org/wiki/Liquefied_petroleum_gas

Hank

6370. Something elese you can do with a balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-22 17:40:17 UTC
From: James Hannon
Topic: 6370 Message: 6370

Sky dive from 120000 feethttp://news.bbc.co.uk/2/hi/science/nature/8475288.stm
Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL

6371. Re: [GPSL] Something elese you can do with a balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-22 21:10:03 UTC
From: Mike Manes
Topic: 6370 Message: 6371

Hmmm ... I'd heard that there was some controversy whether Capt. Joe broke Mach 1 in free fall. From the video, it seems that maybe he just missed it. Bummer. But he's still the fastest human on earth, and it's great that he's gonna ride along. That will take one honkin' big bag of He!
73 de Mike W5VSI

On 1/22/2010 10:40, James Hannon wrote:
>
>
> Sky dive from 120000 feet
>
> http://news.bbc.co.uk/2/hi/science/nature/8475288.stm
>
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6372. September Balloon Launch Opportunity....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-24 22:02:55 UTC
From: Keith Kaiser
Topic: 6372 Message: 6372

Fellow Aeronauts,

As you may be aware 2010 is the 100th Anniversary of the Boy Scouts of America. The Heart Of America Council of the BSA will be holding a Centennial Celebration Sept. 24, 25, 26 near Bonner Springs, Kansas at Camp Naish. The expectation is for about 20,000 Cub Scouts, Boy Scouts, and Venturers to attend the long weekend event. This will be the second largest celebration in the country, surpassed only by the National Jamboree being held in July at Fort A.P. Hill, Virginia.

I have the honor to server as the Venturing Activities Coordinator for all four of the sub-camps that will be in operation that weekend. I'm very happy to say that Amateur Radio will be very well represented as will Amateur Radio High Altitude Ballooning. To that effort is the reason for this note. I need three more ARHAB groups to launch balloons on Sunday morning 9/26 in coordination with NSV's launch.

This would mean traveling to Bonner Springs, KS, coordinating your effort with the NSV representative, doing the launch with however many spectators are present, then doing your own recovery. However it also means a potential audience of 5000 to 10,000 Scouts and an opportunity to show, teach, explain, and recruit these same Scouts. The expense like the opportunity is yours, if you think your group would be interested please contact me asap for more information.

Keith Kaiser
President: Near Space Ventures, Inc.
wa0tjt@...
(816) 587-9636

6373. Re: [GPSL] September Balloon Launch Opportunity....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-25 00:32:12 UTC
From: L. Paul Verhage
Topic: 6372 Message: 6373

NearSys will try to get involved (I don't think my classes will interfere).
I'd be interested in partnering with another group or will volunteer
chasers.

Paul

On Sun, Jan 24, 2010 at 4:02 PM, Keith Kaiser <wa0tjt@...> wrote:

> Fellow Aeronauts,
>
> As you may be aware 2010 is the 100th Anniversary of the Boy Scouts of
> America. The Heart Of America Council of the BSA will be holding a
> Centennial Celebration Sept. 24, 25, 26 near Bonner Springs, Kansas at Camp
> Naish. The expectation is for about 20,000 Cub Scouts, Boy Scouts, and
> Venturers to attend the long weekend event. This will be the second largest
> celebration in the country, surpassed only by the National Jamboree being
> held in July at Fort A.P. Hill, Virginia.
>
> I have the honor to server as the Venturing Activities Coordinator for all
> four of the sub-camps that will be in operation that weekend. I'm very happy
> to say that Amateur Radio will be very well represented as will Amateur
> Radio High Altitude Ballooning. To that effort is the reason for this note.
> I need three more ARHAB groups to launch balloons on Sunday morning 9/26 in
> coordination with NSV's launch.
>
> This would mean traveling to Bonner Springs, KS, coordinating your effort
> with the NSV representative, doing the launch with however many spectators
> are present, then doing your own recovery. However it also means a potential
> audience of 5000 to 10,000 Scouts and an opportunity to show, teach,
> explain, and recruit these same Scouts. The expense like the opportunity is
> yours, if you think your group would be interested please contact me asap
> for more information.
>
> Keith Kaiser
> President: Near Space Ventures, Inc.
> wa0tjt@...
> (816) 587-9636
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

--
Onwards and Upwards,
Paul

6374. Re: [GPSL] September Balloon Launch Opportunity....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-25 00:57:25 UTC
From: Idle-Tyme
Topic: 6372 Message: 6374

Near Space Sciences is interested.

We have done flights for scouts before and always was a good time and exciting too. I don't know if a local scouting group here will be doing anything on those dates or not.

Joe WB9SBD
****
Idle-Tyme Visit Our Web Page To Learn All About This Incredible Timepiece!
*The Original Rolling Ball Clock
Idle-Tyme.com <http://www.idle-tyme.com>*

L. Paul Verhage wrote:
>
>
> NearSys will try to get involved (I don't think my classes will
> interfere). I'd be interested in partnering with another group or
> will volunteer chasers.
>
> Paul
>
> On Sun, Jan 24, 2010 at 4:02 PM, Keith Kaiser <wa0tjt@...
> <mailto:wa0tjt@...>> wrote:
>
> Fellow Aeronauts,
>
> As you may be aware 2010 is the 100th Anniversary of the Boy
> Scouts of America. The Heart Of America Council of the BSA will be
> holding a Centennial Celebration Sept. 24, 25, 26 near Bonner
> Springs, Kansas at Camp Naish. The expectation is for about 20,000
> Cub Scouts, Boy Scouts, and Venturers to attend the long weekend
> event. This will be the second largest celebration in the country,
> surpassed only by the National Jamboree being held in July at Fort
> A.P. Hill, Virginia.
>
> I have the honor to server as the Venturing Activities Coordinator
> for all four of the sub-camps that will be in operation that
> weekend. I'm very happy to say that Amateur Radio will be very
> well represented as will Amateur Radio High Altitude Ballooning.
> To that effort is the reason for this note. I need three more
> ARHAB groups to launch balloons on Sunday morning 9/26 in
> coordination with NSV's launch.
>
> This would mean traveling to Bonner Springs, KS, coordinating your
> effort with the NSV representative, doing the launch with however
> many spectators are present, then doing your own recovery. However

> it also means a potential audience of 5000 to 10,000 Scouts and an
> opportunity to show, teach, explain, and recruit these same
> Scouts. The expense like the opportunity is yours, if you think
> your group would be interested please contact me asap for more
> information.
>
> Keith Kaiser
> President: Near Space Ventures, Inc.
> wa0tjt@... <mailto:wa0tjt@...>
> (816) 587-9636
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
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> --
> Onwards and Upwards,
> Paul
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>
>
> --
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.730 / Virus Database: 271.1.1/2642 - Release Date: 01/24/10 01:33:00
>
>

6375. Re: [GPSL] September Balloon Launch Opportunity....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-25 23:14:37 UTC
From: wb8elk@aol.com
Topic: 6372 Message: 6375

Keith,

I might be able to come out there for the event...but a bit too early to tell what my schedule is. If I can't make it there, I will try to fly locally at the same time with a scouting group here. The only thing that would be needed would be a helium tank...any thoughts on whether you can do a group transport of tanks to the site as well as their return?

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@gmail.com>
To: GPSL@yahoogroups.com
Sent: Sun, Jan 24, 2010 4:02 pm
Subject: [GPSL] September Balloon Launch Opportunity....

Fellow Aeronauts,

As you may be aware 2010 is the 100th Anniversary of the Boy Scouts of America. The Heart Of America Council of the BSA will be holding a Centennial Celebration Sept. 24, 25, 26 near Bonner Springs, Kansas at Camp Naish. The expectation is for about 20,000 Cub Scouts, Boy Scouts, and Venturers to attend the long weekend event. This will be the second largest celebration in the country, surpassed only by the National Jamboree being held in July at Fort A.P. Hill, Virginia.

I have the honor to server as the Venturing Activities Coordinator for all four of the sub-camps that will be in operation that weekend. I'm very happy to say that Amateur Radio will be very well represented as will Amateur Radio High Altitude Ballooning. To that effort is the reason for this note. I need three more ARHAB groups to launch balloons on Sunday morning 9/26 in coordination with NSV's launch.

This would mean traveling to Bonner Springs, KS, coordinating your effort with the NSV representative, doing the launch with however many spectators are present, then doing your own recovery. However it also means a potential audience of 5000 to 10,000 Scouts and an opportunity to show, teach, explain, and recruit these same Scouts. The expense like the opportunity is yours, if you think your group would be interested please contact me asap for more information.

Keith Kaiser
President: Near Space Ventures, Inc.
wa0tjt@...
(816) 587-9636

6376. what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 00:55:18 UTC
From: ccccrnr@aim.com
Topic: 6376 Message: 6376

what kind of flight controller / cut-down controller / camera-repeater controller does everyone one use?

Also what language do you program in(asmbler, C, C++, Basic, other) ?

I got my first Arduino (a Duemilanova) Friday, but had been thinking about getting PicKit 2 to use PIC18F's.
Just wondering what has proven well for others and what code may be out there for the routine parts of every flight?

Thanks,
Carlton Corbitt
-.- .. ....- -. .... -.- .. -. ------ .-.. .- -. -..

6377. Re: [GPSL] what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 00:59:01 UTC
From: Zack Clobes
Topic: 6376 Message: 6377

I've traditionally used the PIC 16F series of controllers. I had planned on porting over to the Atmel series, but am in the process of building a ArduinoTracker instead.

Zack Clobes, W0ZC
Project: Traveler

On Mon, Jan 25, 2010 at 6:55 PM, <ccccrnr@...> wrote:

>
>
> what kind of flight controller / cut-down controller / camera-repeater
> controller does everyone one use?
>
> Also what language do you program in(asmbler, C, C++, Basic, other) ?
>
>
> I got my first Arduino (a Duemilanova) Friday, but had been thinking
> about getting PicKit 2 to use PIC18F's.
> Just wondering what has proven well for others and what code may be out
> there for the routine parts of every flight?
>
> Thanks,
> Carlton Corbitt
> -.- .. ....- -. .... -.- .. -. ------ .-.. .- -. -..
>
>

6378. Re: what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 01:01:23 UTC
From: jjdemeyer
Topic: 6376 Message: 6378

I have used an SX-48 (from Parallax) on three flights. It works well controlling the cameras, sampling sensors and logging data. I used SX BASIC for it.
I am presently developing a new flight computer based on the Atmel XMEGA. It has more programming space, I/O, memory and lower power. Atmel provides a free C compiler.

Joe

--- In GPSL@yahoogroups.com, ccccrnr@... wrote:
>
> what kind of flight controller / cut-down controller / camera-repeater controller does everyone one use?
>
>
>
> Also what language do you program in(asmbler, C, C++, Basic, other) ?
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> I got my first Arduino (a Duemilanova) Friday, but had been thinking about getting PicKit 2 to use PIC18F's.
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>
>
> Thanks,
> Carlton Corbitt
> -.- .. ....- -. .... -.- .. -. ------ .-.. .- -. -..
>

6379. HT that does cross band repeat?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 01:09:44 UTC
From: k6rpt
Topic: 6379 Message: 6379

Any suggestions for a HT that does cross band repeat?

-Ron K6RPT

6380. Re: [GPSL] what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 02:22:47 UTC
From: Mike Manes
Topic: 6376 Message: 6380

Hi Carlton,

EOSS has used the Parallax Basic Stamp 1 & 2 for its DF beacons/cutdown
command receivers, but have migrated to the PICAXE for its latest such
beacon as well as the SamCam II rotating digital camera payload.

IMHO, the PICAXE lineup is every bit as powerful as the BSC line and
a darn sight less costly.

73 de Mike W5VSI
CTO EOSS

On 1/25/2010 17:55, ccccrnr@... wrote:
>
>
> what kind of flight controller / cut-down controller / camera-repeater
> controller does everyone one use?
>
> Also what language do you program in(asmbler, C, C++, Basic, other) ?
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> there for the routine parts of every flight?
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> Carlton Corbitt
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>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6381. Re: [GPSL] HT that does cross band repeat?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 02:27:35 UTC
From: Mike Manes
Topic: 6379 Message: 6381

Hi Ron,
Might try rolling your own using a DJ-C1 and DJ-C4/5 HT pair with
a PICAXE running as a controller & IDer. Most HTs with crossband
capability don't have internal IDers, relying on the operator for
that job - brushes sideways with Part 97 repeater ID requirements.
73 de Mike W5VSI

On 1/25/2010 18:09, k6rpt wrote:
> Any suggestions for a HT that does cross band repeat?
>
> -Ron K6RPT
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6382. RE: [GPSL] what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 02:30:42 UTC
From: Earl Foster
Topic: 6376 Message: 6382

I also started with the STAMP from Parallax but have since moved to their Propeller 8-microprocessor chip. It provides up to 8 parallal processing tasks and has an extensive object library of sensors, motor controllers, PID processes, video, communications, etc.

-earl

http://www.habp.net

To: GPSL@yahoogroups.com
CC: ccccrnr@...
From: mrmanes@...
Date: Mon, 25 Jan 2010 19:22:47 -0700
Subject: Re: [GPSL] what microcontroller - flight controller do you use

Hi Carlton,

EOSS has used the Parallax Basic Stamp 1 & 2 for its DF beacons/cutdown command receivers, but have migrated to the PICAXE for its latest such beacon as well as the SamCam II rotating digital camera payload.

IMHO, the PICAXE lineup is every bit as powerful as the BSC line and a darn sight less costly.

73 de Mike W5VSI
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> what kind of flight controller / cut-down controller / camera-repeater
> controller does everyone one use?
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>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

_____
Hotmail: Trusted email with powerful SPAM protection.
http://clk.atdmt.com/GBL/go/196390707/direct/01/

6383. Re: [GPSL] HT that does cross band repeat?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 03:03:54 UTC
From: HarryM
Topic: 6379 Message: 6383

We flew a Kenwood TH-78A on ORB flights 6,7 & 9 with great results!

6384. Re: [GPSL] September Balloon Launch Opportunity....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 03:08:03 UTC
From: Keith Kaiser
Topic: 6372 Message: 6384

I don't know. I'll ask, we have our next planning meeting on the 16th. I'll keep you posted.

On Jan 25, 2010, at 5:14 PM, wb8elk@... wrote:

>
> Keith,
>
> I might be able to come out there for the event...but a bit too early to tell what my schedule is. If I can't make it there, I will try to fly locally at the same time with a scouting group here. The only thing that would be needed would be a helium tank...any thoughts on whether you can do a group transport of tanks to the site as well as their return?
>
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: Keith Kaiser <wa0tjt@...>
> To: GPSL@yahoogroups.com
> Sent: Sun, Jan 24, 2010 4:02 pm
> Subject: [GPSL] September Balloon Launch Opportunity....
>
>
> Fellow Aeronauts,
>
> As you may be aware 2010 is the 100th Anniversary of the Boy Scouts of America. The Heart Of America Council of the BSA will be holding a Centennial Celebration Sept. 24, 25, 26 near Bonner Springs, Kansas at Camp Naish. The expectation is for about 20,000 Cub Scouts, Boy Scouts, and Venturers to attend the long weekend event. This will be the second largest celebration in the country, surpassed only by the National Jamboree being held in July at Fort A.P. Hill, Virginia.
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> This would mean traveling to Bonner Springs, KS, coordinating your effort with the NSV representative, doing the launch with however many spectators are present, then doing your own recovery. However it also means a potential audience of 5000 to 10,000 Scouts and an

opportunity to show, teach, explain, and recruit these same Scouts. The expense like the opportunity is yours, if you think your group would be interested please contact me asap for more information.
>
> Keith Kaiser
> President: Near Space Ventures, Inc.
> wa0tjt@...
> (816) 587-9636
>
>

6385. Re: [GPSL] what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 03:17:48 UTC
From: Mark Conner
Topic: 6376 Message: 6385

I am still on the Basic Stamp 2p and have been using Stamp 2 variants for about ten years now. However, I am slowly migrating towards the Arduino platform. I have a project underway for 2010 that will use a companion WaveShield to act as a "talking APRS beacon", reading out location, altitude, course, and speed at intervals. After that's done, I'll work on replacing the Stamp with an Arduino. My C programming is a little rusty, so the progress is slower than I'd like.

I also have a few PICAXEs to play with too, mostly for simple stand-alone timers and such.

73 de Mark N9XTN

On Mon, Jan 25, 2010 at 18:55, <ccccrnr@...> wrote:

>
>
> what kind of flight controller / cut-down controller / camera-repeater
> controller does everyone one use?
>
> Also what language do you program in(asmbler, C, C++, Basic, other) ?
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> about getting PicKit 2 to use PIC18F's.
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> Thanks,
> Carlton Corbitt
> -.- .. ....- -. .... -.- .. -. ------ .-.. .- -. -..
>
>
>

6386. Re: [GPSL] what microcontroller - flight controller do you use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 07:15:20 UTC
From: wb8elk@aol.com
Topic: 6376 Message: 6386

Carlton,

I've used Atmel Mega AVR and the Arduino (AVR chip with C routines) for balloons. As well as PIC, HC11 and HC05...all programmed in C or Assembly (and of course the Picaxe or Basic Stamp for small routines)....however, my current favorite has got to be the Cypress PSoC (second choice would be the Arduino or dedicated AVR). The PSoC has analog filter modules and other neat things on the chip which offloads processing power to do other things. The development system now comes with a free and very complete C compiler. Once you get used to the GUI of graphically routing pins and selecting the digital and analog modules, you'll find it's a very powerful micro.

Although I was set back a few months when I lost a good deal of my code and PC board files due to a home invasion theft of my computer last August, I have finally gotten the GPS-enabled multi-mode tracking transmitter using the Cypress PSoC back where it was and have improved the code along the way. I now have it doing the following modes: DominoEX, CW, Hellscreiber, RTTY and most recently have added PSK31. I'm very close to having it also do APRS packets....all of this with a small PSoC CY8C29466A chip. The newest PSoC 3 and 5 series are even more powerful but will probably not be easy to solder as they are a fine pitch pin package.

The thing I like about the PSoC is that you can turn a PWM square wave signal into a sine wave just by running it through the onboard band pass filter module.

- Bill WB8ELK

-----Original Message-----
From: ccccrnr@...
To: GPSL@yahoogroups.com
Sent: Mon, Jan 25, 2010 6:55 pm
Subject: [GPSL] what microcontroller - flight controller do you use

what kind of flight controller / cut-down controller / camera-repeater controller does everyone one use?

Also what language do you program in(asmbler, C, C++, Basic, other) ?

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Thanks,
Carlton Corbitt
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Thanks,
Carlton Corbitt
-.- .. ....- -. .... -.- .. -. ------ .-.. .- -. -..

6387. Re: [GPSL] HT that does cross band repeat?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 07:17:54 UTC
From: wb8elk@aol.com
Topic: 6379 Message: 6387

Ron,

If you can get your hands on an old Icom IC32AT....it does a great job of cross band repeating....just takes a special sequence of touch tones to set it up...I believe the Joe at NSS also has used this radio in that fashion. They sometimes come up on eBay or hamfests.

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Mon, Jan 25, 2010 7:09 pm
Subject: [GPSL] HT that does cross band repeat?

Any suggestions for a HT that does cross band repeat?

-Ron K6RPT

6388. Launch info

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-26 21:33:47 UTC
From: Jeff Dailey
Topic: 6388 Message: 6388

Taylor university two balloons on Saturday the 23rd. This was our J-Term Astronomy class 120 student, 18 teams.
Payloads ranged from solar to black space experiments.

Flight #: 219
Flight ID: ASTRO 10
Date: 1-23-2010
Time: 10:00AM
Launch Site: Taylor University Launch Operations
APRS: KB9ZNZ-10

Flight #: 220
Flight ID: ASTRO 20
Date: 1-23-2010
Time: 10:30AM
Launch Site: Taylor University Launch Operations
APRS: KB9ZNZ-6

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6389. Launch Announcement

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 03:16:27 UTC
From: k6rpt
Topic: 6389 Message: 6389

Launch Announcement

Date: 3-27-2010 Weather permitting, Launch Time: 10am ☐ 11am PST, Location: Central California, APRS 144.39 K6RPT-12, 1500g He, Canon A560, BalloonSat Mini logging temperatures, Cross band repeater, will Receive on 446.000, 100 hz pl and Transmit on 146.460.

-Ron K6RPT

6390. Geiger Counter Kit

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 07:42:30 UTC
From: L. Paul Verhage
Topic: 6390 Message: 6390

I put together a short video of the experiment with the Electronics Goldmine Geiger counter kit.

It runs off a 9V battery by boosting the voltage to 600 volts with a 555 timer and transformer. The resultsof this can be seen when a PICAXE counts 5 or 6 detections for each cosmic ray. I have screen shots form a oscilloscope that show this very well in the video.

Here's the link
http://www.youtube.com/watch?v=_jU4OnRB_eE

--
Onwards and Upwards,
Paul

6391. Oops, wrong video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 07:45:21 UTC
From: L. Paul Verhage
Topic: 6391 Message: 6391

Here's the proper link

http://www.youtube.com/watch?v=lc0dirkliMo

--
Onwards and Upwards,
Paul

6392. Most Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 16:24:44 UTC
From: Idle-Tyme
Topic: 6392 Message: 6392
Attachments: 1 described; binary payloads are missing from this source WARC

This is the first time I have ever seen video from these points of
view, way cool. I was surprised how many cameras must be on that thing.

Then after all that traveling that they actually splash down soo close
together too!

Wow

Joe WB9SBD
Near Space Scineces

Opps the videos url,,

http://www.youtube.com/watch?v=vPQvTgD2quQ&NR=1
--
****
Idle-Tyme Visit Our Web Page To Learn All About This Incredible Timepiece!
*The Original Rolling Ball Clock
Idle-Tyme.com <http://www.idle-tyme.com>*

6393. Re: [GPSL] Most Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 16:38:01 UTC
From: Bruce Coates
Topic: 6392 Message: 6393
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe

That was an amazing video. Thanks for the link.

Bruce
VE5BNC
----- Original Message -----
From: Idle-Tyme
To: GPSL@yahoogroups.com
Sent: Saturday, January 30, 2010 10:24 AM
Subject: [GPSL] Most Awesome Video

This is the first time I have ever seen video from these points of view, way cool. I was surprised how many cameras must be on that thing.

Then after all that traveling that they actually splash down soo close together too!

Wow

Joe WB9SBD
Near Space Scineces

Opps the videos url,,

http://www.youtube.com/watch?v=vPQvTgD2quQ&NR=1
--
****

The Original Rolling Ball Clock
Idle-Tyme.com

6394. Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 16:45:52 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6394

I'm experimenting with the Electronics Golmine Geiger counter kit. It uses a 555 timer (set at 128 Hz) and small transformer to boost nine volts to 600 volts for the GM tube. Each time a cosmic ray passes through the GM tube, there are 5 or 6 voltage pulses of four volts high.

Here's the video so far, http://www.youtube.com/watch?v=lc0dirkliMo

I used a BalloonSat Mini flight computer to count the pulses and it worked well (it just needs to divide the count by 6). The kit cost me $70, so it's less expensive than the Aware RM-60 Geiger counters I use today.

However, I'd like to get rid of the pulses and smooth out the DC. So I'm looking for a .033 uF cap with a voltage rating of over 600 volts. I see Digi-Key carries them, but I'd have to pay $6 shipping on a 75 cent piece. Does any one local to Topeka have a cap like this in their junk drawer?

The time it takes to get the six pulses per detection is 48 ms. That means during that time, no other detection can be make (this is referred to as the GM tube's dead time). I'm wondering if I smooth out the voltage spikes with the cap across the GM tube if that will help shorten the dead time. compare this to the dead time of a RM-60 which is 20 ms (50 ms is not excessive for near space use, since the highest counts I've seen is 800 per minute - it becomes a problem as the dead time approaches 120 ms)

Electronic Goldmine sells a smaller GM tube suitable for measuring gamma rays. So after I complete this experiment, I'll look into building a kit around this tube for near space use. I think I can keep it to less than $50 - which will make it easier for schools to measure cosmic rays during a near space mission. I could also see it being used in robotics competitions (say simulating the clean up of a nuclear accident).

--
Onwards and Upwards,
Paul

6395. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-30 23:24:46 UTC
From: James Hannon
Topic: 6394 Message: 6395

What the heck? I am having a hard time imagining how a geiger tube could output multiple pulses from a single ray. You sure it is from the tube and not something they do in the circuit to make the led brighter? Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 1/30/2010 10:45:52 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Geiger CounterI'm experimenting with the Electronics Golmine Geiger counter kit. It uses a 555 timer (set at 128 Hz) and small transformer to boost nine volts to 600 volts for the GM tube. Each time a cosmic ray passes through the GM tube, there are 5 or 6 voltage pulses of four volts high.Here's the video so far,
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--
Onwards and Upwards,
Paul_

6396. Re: [GPSL] Geiger Counter Kit

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 02:42:22 UTC
From: Mike Manes
Topic: 6390 Message: 6396

Hi Paul,

I was hoping to see how your corona abatement work with this HV circuitry
went in the video, but it seems that your link is for a hovercraft.

Corona discharge and frank breakdown can become a significant problem
at high altitude for any circuitry supporting over about 250V in air.
Fortunately, you have an altitude chamber with a viewing window that
will let you see if there's any corona issue.

73 de Mike W5VSI

On 1/30/2010 00:42, L. Paul Verhage wrote:
>
>
> I put together a short video of the experiment with the Electronics
> Goldmine Geiger counter kit.
> It runs off a 9V battery by boosting the voltage to 600 volts with a 555
> timer and transformer. The resultsof this can be seen when a PICAXE
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> Here's the link
> http://www.youtube.com/watch?v=_jU4OnRB_eE
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> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6397. Re: [GPSL] Oops, wrong video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 02:44:30 UTC
From: Mike Manes
Topic: 6391 Message: 6397

That link yielded "An error occurred. Try again later" message.

On 1/30/2010 00:45, L. Paul Verhage wrote:
>
>
> Here's the proper link
> http://www.youtube.com/watch?v=lc0dirkliMo
>
> --
> Onwards and Upwards,
> Paul
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>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6398. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 03:47:27 UTC
From: Mike Manes
Topic: 6394 Message: 6398

Hi Paul,

That 8 ms rep rate is intriguingly close to the period of the 128 Hz DC-DC converter switching freq, so it appears that the 600Vdc supply may not be filtered at all. Is that what the 33 nF 600V cap is for? I'm sure I've got one in my junk box, but it would still cost some $$ to ship it to you. If you can dig up a stash of old tube-type radios or TVs, I'll betcha you could find what you need in the chassis (that's where my junk box got its start).

Otherwise, you could simply run that output signal thru a simple R-C low pass filter, with maybe a 10 - 15 Hz pole freq before it gets to the PICAXE - or you could run it thru a comparator to detect only the first, high-amplitude pulse. Or both.

If I had a schematic, I might be able to be of greater help.

Oh yeah - be SURE to run it up to altitude, looking for corona (dim blue glow) in a darkened room. If you find some, try filing off any sharp metal points carrying the HV and/or applying corona dope (thick, clear nail polish) to the offending points. If PWB clearance is shy, there may even be a frank breakdown, which will be a lot more obvious - and potentially fatal to LV parts nearby.

73 de Mike W5VSI
CTO EOSS

On 1/30/2010 09:45, L. Paul Verhage wrote:
>
>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6399. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 17:19:00 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6399

I wrote about this on my blog (nearsys.blogspot.com). Those pulses are from
the 555 timer. The dead time on the GM tube is around 50 ms, so there's
time for six 555 pulsesto show up.
I'd like to filter that out with a cap and see if it also helps to reduce
the GM tube's dead time.

Paul

On Sat, Jan 30, 2010 at 9:47 PM, Mike Manes <mrmanes@...> wrote:

> Hi Paul,
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> That 8 ms rep rate is intriguingly close to the period of the 128 Hz DC-DC
> converter switching freq, so it appears that the 600Vdc supply may not be
> filtered at all. Is that what the 33 nF 600V cap is for? I'm sure I've got
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> Oh yeah - be SURE to run it up to altitude, looking for corona (dim blue
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6400. Re: Video capture solutions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 17:22:37 UTC
From: Mark Conner
Topic: 6365 Message: 6400

Just to follow up on this......

I purchased an ASUS PCI-E capture card/TV tuner, hoping this would not only let me digitize my videos but add off-air TV capability to my computer. Unfortunately, anytime the video would glitch the captured file would become corrupted. On the advice of David Patterson and others, I got a Pinnacle Video Transfer device instead. This is a no-computer-required solution which will take composite or S-Video and audio and digitize it directly to a USB device such as a thumb drive or USB drive (must be FAT32 format). While this unit has its own idiosyncracies, it's working well for what I need it to do.

73 de Mark N9XTN

On Mon, Jan 18, 2010 at 21:25, Mark Conner <mconner1@...> wrote:

> Video gurus,
>
> I'm in the process of digitizing everything I have on tape, including
> a couple dozen VHS-C tapes from past NSTAR flights. I recently
> upgraded to a new homebuilt Win7 system and on the same Newegg order I
> purchased a Diamond VC500 USB video capture device. However, I have
> been very dissatisfied with the hardware itself and the driver
> software. During the capture process it tends to drop frames
> frequently, abort the capture entirely, and the driver software does
> not have a way to set a maximum capture time - you must stop it
> manually, which means babysitting it or chopping off hours of blank
> screen at the end of the file. Plus the MPEG compression it uses is
> nasty and the other options are worse.
>
> I don't need broadcast quality, but I'm not looking for the bottom end
> of the consumer market like this particular device appears to be. I'm
> guessing a PCI card would be superior to a USB/Firewire device. Any
> recommendations, esp. systems know to work on Win7?
>
> 73 de Mark N9XTN
>

6401. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 19:40:48 UTC
From: James Hannon
Topic: 6394 Message: 6401

I would not put the capacitor across the gm tube itself. This could damage the tube by supplying excessive energy when the tube does fire. You really want is to filter the 600 volt supply then feed it to the tube thru a high value resistor. For example: http://www.sparkfun.com/datasheets/Sensors/Radiation/Geiger_Counter-v18.pdf notice the 10 meg ohm resistor. You need to limit the current into the tube to allow it to quench and prevent damage. Sounds like your circuit does this by supplying the voltage in pulses. If that is the case I would seriously consider redoing the power supply to make it more like the sparkfun circuit.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
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Sent 1/31/2010 11:19:00 AM
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Cc: gpsl@yahoogroups.com
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Oh yeah - be SURE to run it up to altitude, looking for corona (dim blue glow) in a darkened room. If you find some, try filing off any sharp metal points carrying the HV and/or applying corona dope (thick, clear nail polish) to the offending points. If PWB clearance is shy, there may even be a frank breakdown, which will be a lot more obvious - and potentially fatal to LV parts nearby.
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On 1/30/2010 09:45, L. Paul Verhage wrote:
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6402. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 23:24:33 UTC
From: Mike Manes
Topic: 6394 Message: 6402

Hi Paul,

It appears that the pulsatile HV delivered to the G-M tube may be an ineffectual attempt to quench the secondary emission that would otherwise create extra pulses. See:

http://en.wikipedia.org/wiki/Geiger%E2%80%93M%C3%BCller_tube

Perhaps slowing down the 555 would help, although it would also back down on the max count freq at altitude.

73 de Mike W5VSI

On 1/31/2010 10:19, L. Paul Verhage wrote:
> I wrote about this on my blog (nearsys.blogspot.com
> <http://nearsys.blogspot.com>). Those pulses are from the 555 timer.
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6403. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-01-31 23:35:00 UTC
From: Mike Manes
Topic: 6394 Message: 6403

Yeah, lacking a schematic, I'd assumed that there was a many-meg R in
series with the tube, across which the arc pulse signal is developed.
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6404. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 02:33:28 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6404

Perhaps I should use a PICAXE-08M in place of the 555 timer. The PICAXE can then shut off when at a detection to let the tube quench. That would make a smart Geiger counter like it looks like Sparkfun is doing. The PICAXE could also do the calculations of counts per minute and send the data to a BalloonSat flight computer.

I'll send a copy of the schematic of the current circuit tomorrow (need to scan it).

The circuit connects the transformer to the GM tube with a diode and 100k resistor. So only DC pulses get to the GM tube.

When the GM tube discharges, it triggers the piezo speaker and darlington connected to the indicator LED.

Paul

On Sun, Jan 31, 2010 at 5:35 PM, Mike Manes <mrmanes@...> wrote:

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> > points carrying the HV and/or applying corona dope (thick, clear
> > nail polish)

> > to the offending points. If PWB clearance is shy, there may even be
> > a frank
> > breakdown, which will be a lot more obvious - and potentially fatal
> > to LV
> > parts nearby.
> >
> > 73 de Mike W5VSI
> > CTO EOSS
> >
> >
> > On 1/30/2010 09:45, L. Paul Verhage wrote:
> >
> >
> >
> > I'm experimenting with the Electronics Golmine Geiger counter
> > kit. It
> > uses a 555 timer (set at 128 Hz) and small transformer to boost
> nine
> > volts to 600 volts for the GM tube. Each time a cosmic ray passes
> > through the GM tube, there are 5 or 6 voltage pulses of four
> > volts high.
> > Here's the video so far,
> http://www.youtube.com/watch?v=lc0dirkliMo
> > I used a BalloonSat Mini flight computer to count the pulses and
> it
> > worked well (it just needs to divide the count by 6). The kit
> > cost me
> > $70, so it's less expensive than the Aware RM-60 Geiger counters
> > I use
> > today.
> > However, I'd like to get rid of the pulses and smooth out the DC.
> So
> > I'm looking for a .033 uF cap with a voltage rating of over 600
> > volts.
> > I see Digi-Key carries them, but I'd have to pay $6 shipping on a
> 75
> > cent piece. Does any one local to Topeka have a cap like this in
> > their
> > junk drawer?
> > The time it takes to get the six pulses per detection is 48 ms.
> That
> > means during that time, no other detection can be make (this is
> > referred
> > to as the GM tube's dead time). I'm wondering if I smooth out
> > the voltage spikes with the cap across the GM tube if that will
> help
> > shorten the dead time. compare this to the dead time of a RM-60
> > which
> > is 20 ms (50 ms is not excessive for near space use, since the
> > highest

> > counts I've seen is 800 per minute - it becomes a problem as the
> > dead
> > time approaches 120 ms)
> > Electronic Goldmine sells a smaller GM tube suitable for
> > measuring gamma
> > rays. So after I complete this experiment, I'll look into
> building a
> > kit around this tube for near space use. I think I can keep it
> > to less
> > than $50 - which will make it easier for schools to measure
> > cosmic rays
> > during a near space mission. I could also see it being used in
> > robotics
> > competitions (say simulating the clean up of a nuclear accident).
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
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> > Onwards and Upwards,
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6405. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 03:52:41 UTC
From: Mike Manes
Topic: 6394 Message: 6405

Hi Paul,

Looking over the SparkFun device, I don't see any means for the uP to control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power oscillator driving a step-up xformer that feeds a voltage tripler, D2-D4. G-M tube discharge current is limited by R7-8 (11 meg). The R7-8 x C6 time constant is about 110 ms, which is a lot longer than the G-M tube quench time.

But I think you have a good idea to use the uP to control the HV supply. Not sure I've seen that approach taken before.

BTW, I still think you should run it thru your altitude chamber before flying it. Corona discharge could as a minimum ruin your data, if not your hardware. I've seen it happen!

73 de Mike W5VSI

On 1/31/2010 19:33, L. Paul Verhage wrote:
>
>
> Perhaps I should use a PICAXE-08M in place of the 555 timer. The PICAXE
> can then shut off when at a detection to let the tube quench. That
> would make a smart Geiger counter like it looks like Sparkfun is doing.
> The PICAXE could also do the calculations of counts per minute and send
> the data to a BalloonSat flight computer.
> I'll send a copy of the schematic of the current circuit tomorrow (need
> to scan it).
> The circuit connects the transformer to the GM tube with a diode and
> 100k resistor. So only DC pulses get to the GM tube.
> When the GM tube discharges, it triggers the piezo speaker and
> darlington connected to the indicator LED.
> Paul
>
> On Sun, Jan 31, 2010 at 5:35 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Yeah, lacking a schematic, I'd assumed that there was a many-meg R in
> series with the tube, across which the arc pulse signal is developed.
> I'm guessing that the slight negative bias between the +HV pulses is
> intended to quench the tube, but maybe not, or it's not doing the job.
> 73 de Mike W5VSI
>
> On 1/31/2010 12:40, James Hannon wrote:
> >
> >

> >
> > I would not put the capacitor across the gm tube itself. This could
> > damage the tube by supplying excessive energy when the tube does
> fire.
> > You really want is to filter the 600 volt supply then feed it to the
> > tube thru a high value resistor. For example:
> >
> http://www.sparkfun.com/datasheets/Sensors/Radiation/Geiger_Counter-v18.pdf
> > notice the 10 meg ohm resistor. You need to limit the current
> into the
> > tube to allow it to quench and prevent damage. Sounds like your
> circuit
> > does this by supplying the voltage in pulses. If that is the case I
> > would seriously consider redoing the power supply to make it more
> like
> > the sparkfun circuit.
> >
> > Jim Hannon
> > http://www.fmtcs.com/web/jmhannon/
> > 42,11.90N,91,39.26W
> > WB0TXL
> >
> >
> >
> > -----Original Message-----
> > From: "L. Paul Verhage" <nearsys@...
> <mailto:nearsys@...>>
> > Sent 1/31/2010 11:19:00 AM
> > To: "Mike Manes" <mrmanes@... <mailto:mrmanes@...>>
> > Cc: gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> > Subject: Re: [GPSL] Geiger Counter
> >
> > I wrote about this on my blog (nearsys.blogspot.com
> <http://nearsys.blogspot.com/>
> > <http://nearsys.blogspot.com <http://nearsys.blogspot.com/>>).
> Those pulses are from the 555 timer. The
> > dead time on the GM tube is around 50 ms, so there's time for six 555
> > pulsesto show up.
> > I'd like to filter that out with a cap and see if it also helps to
> > reduce the GM tube's dead time.
> > Paul
> >
> > On Sat, Jan 30, 2010 at 9:47 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>
> > <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
> >
> > Hi Paul,
> >
> > That 8 ms rep rate is intriguingly close to the period of the
> 128 Hz

> > DC-DC
> > converter switching freq, so it appears that the 600Vdc
> supply may
> > not be
> > filtered at all. Is that what the 33 nF 600V cap is for? I'm sure
> > I've got
> > one in my junk box, but it would still cost some $$ to ship it to
> > you. If
> > you can dig up a stash of old tube-type radios or TVs, I'll
> betcha
> > you could
> > find what you need in the chassis (that's where my junk box
> got its
> > start).
> >
> > Otherwise, you could simply run that output signal thru a
> simple R-C low
> > pass filter, with maybe a 10 - 15 Hz pole freq before it gets
> to the
> > PICAXE - or you could run it thru a comparator to detect only
> the first,
> > high-amplitude pulse. Or both.
> >
> > If I had a schematic, I might be able to be of greater help.
> >
> > Oh yeah - be SURE to run it up to altitude, looking for
> corona (dim blue
> > glow) in a darkened room. If you find some, try filing off
> any sharp
> > metal
> > points carrying the HV and/or applying corona dope (thick, clear
> > nail polish)
> > to the offending points. If PWB clearance is shy, there may
> even be
> > a frank
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> > to LV
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> > 73 de Mike W5VSI
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> > Here's the video so far,
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> > However, I'd like to get rid of the pulses and smooth out
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> > volts.
> > I see Digi-Key carries them, but I'd have to pay $6
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> > cent piece. Does any one local to Topeka have a cap like
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> > the voltage spikes with the cap across the GM tube if
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> > shorten the dead time. compare this to the dead time of a
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> > which
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> > time approaches 120 ms)
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> > than $50 - which will make it easier for schools to measure
> > cosmic rays
> > during a near space mission. I could also see it being
> used in
> > robotics
> > competitions (say simulating the clean up of a nuclear
> accident).
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
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> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
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> Yahoo! Groups Links
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>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6406. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 13:57:07 UTC
From: James Hannon
Topic: 6394 Message: 6406

I really believe that the Geiger tube in the electronic goldmine kit is self quenching and does not need any external power supply manipulation to properly quench. What appears to be the tube is on this page http://www.imagesco.com/geiger/geiger-counter-tubes.html It is listed as having a fill gas of Neon, Argon and Bromine. Bromine is the quench gas. All a self quenching tube needs to operate properly is a steady HV supply within the plateau region of the tube and a high value series resistor.
Here is another power supply circuit. I like this one because it is adjustable but it does have a lot of parts. http://pdfserv.maxim-ic.com/en/an/AN3757.pdfJim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Mike Manes" <mrmanes@...>
Sent 1/31/2010 9:52:41 PM
To: "L. Paul Verhage" <nearsys@...>
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Geiger CounterHi Paul,
Looking over the SparkFun device, I don't see any means for the uP to
control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power
oscillator driving a step-up xformer that feeds a voltage tripler,
D2-D4. G-M tube discharge current is limited by R7-8 (11 meg).
The R7-8 x C6 time constant is about 110 ms, which is a lot longer
than the G-M tube quench time.
But I think you have a good idea to use the uP to control the HV
supply. Not sure I've seen that approach taken before.
BTW, I still think you should run it thru your altitude chamber
before flying it. Corona discharge could as a minimum ruin your
data, if not your hardware. I've seen it happen!
73 de Mike W5VSI
On 1/31/2010 19:33, L. Paul Verhage wrote:
>
>
>

6407. Geiger Plans

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 14:01:41 UTC
From: L. Paul Verhage
Topic: 6407 Message: 6407
Attachments: 2 described; binary payloads are missing from this source WARC

I've attached two of the pages from the Geiger kit. You'll see the 555 timer is controlled by C2 and R2 (there is no traditional R1 that you normally find in a astable multivibrator). R1 is a pull up reisistor for Q1, which operates the transformer. So C2 is charged and discharged through R2 (a 12k resistor). With C2 having a value of 0.47 uF, I get a frequency of 127.7 Hz. The period of the pulses is then .0078 sec, or 7.8 ms.

I just looked at the oscope this morning and see it's set to 5 ms per time division. So opps, the pulses are 4 ms apart. I need to double check my work, as this doesn't make sense when you look at the schematic.

--
Onwards and Upwards,
Paul

6408. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 15:34:58 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6408

From the oscope display I can see the tube is self-quenching. I'm wondering though if I can speed up the process by controlling the power. Right now its dead time is 50 or so ms. I'd like to knock that down.

There is a problem with the 600 volts in a vacuum. The display LED is constantly on as current jumps across the high voltage terminals. I'll cover them with hot glue to see if that helps.

Paul

On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@...> wrote:

>
>
> I really believe that the Geiger tube in the electronic goldmine kit is
> self quenching and does not need any external power supply manipulation to
> properly quench. What appears to be the tube is on this page
> http://www.imagesco.com/geiger/geiger-counter-tubes.html It is listed as
> having a fill gas of Neon, Argon and Bromine. Bromine is the quench gas. All
> a self quenching tube needs to operate properly is a steady HV supply within
> the plateau region of the tube and a high value series resistor.
> Here is another power supply circuit. I like this one because it is
> adjustable but it does have a lot of parts.
> http://pdfserv.maxim-ic.com/en/an/AN3757.pdf
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "Mike Manes" <mrmanes@...>
> Sent 1/31/2010 9:52:41 PM
> To: "L. Paul Verhage" <nearsys@...>
> Cc: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Geiger Counter
>
> Hi Paul,
> Looking over the SparkFun device, I don't see any means for the uP to
> control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power
> oscillator driving a step-up xformer that feeds a voltage tripler,
> D2-D4. G-M tube discharge current is limited by R7-8 (11 meg).
> The R7-8 x C6 time constant is about 110 ms, which is a lot longer
> than the G-M tube quench time.
> But I think you have a good idea to use the uP to control the HV

> supply. Not sure I've seen that approach taken before.
> BTW, I still think you should run it thru your altitude chamber
> before flying it. Corona discharge could as a minimum ruin your
> data, if not your hardware. I've seen it happen!
> 73 de Mike W5VSI
> On 1/31/2010 19:33, L. Paul Verhage wrote:
> >
> >
> >
>
>
>
>

--
Onwards and Upwards,
Paul

6409. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 16:34:27 UTC
From: James Hannon
Topic: 6394 Message: 6409

Paul,
Quenching and dead time are sort of two separate things. When a particle strikes the tube it creates a cloud of charged particles along the path. The high voltage applied to the tube causes the charged particles to drift to the electrodes generating a current when the collect on the electrodes. Until these particles all drift out of the tube the tube is dead to new pulses. Just because you cannot tell the difference between the current geneated by the first particle from any other particle. The time to dirft depends on the distance between the inner and outer electrodes and the applied voltage. The higher the voltage the faster the drift or shorter the dead time. The smaller the distance between the electrodes the shorter the dead time. But you can't go too high or the tube will arc over. Reducing the tubes voltage will quench the tube but it actually increases the dead time. I believe what you are seeing with the multiple pulses in your counter is that the high voltage is applied in pulses. Each pulse does not last long enough to clear the charged particles from the tube, so they stay creating current for several voltage pulses. A steady high voltage applied to the tube will clear the charged particles faster thus reducing the dead time. Quenching is preventing the drifting particles from striking other atoms and causing an avalanche effect. The quench gas absorbes the collisions without generating other ions. The idea of turning off the high voltage for quench prevents collisions by reducing or stopping the drift of the charged particles. Then you wait a loong time for all the ions to recombine and setttle down.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@gmail.com>
Sent 2/1/2010 9:34:58 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Geiger CounterFrom the oscope display I can see the tube is self-quenching. I'm wondering though if I can speed up the process by controlling the power. Right now its dead time is 50 or so ms. I'd like to knock that down.There is a problem with the 600 volts in a vacuum. The display LED is constantly on as current jumps across the high voltage terminals. I'll cover them with hot glue to see if that helps.PaulOn Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@...> wrote:
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42,11.90N,91,39.26W
WB0TXL
-----Original Message-----From: "Mike Manes" <mrmanes@...>

Sent 1/31/2010 9:52:41 PM
To: "L. Paul Verhage" <nearsys@...>
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Geiger CounterHi Paul,
Looking over the SparkFun device, I don't see any means for the uP to
control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power
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The R7-8 x C6 time constant is about 110 ms, which is a lot longer
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BTW, I still think you should run it thru your altitude chamber
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73 de Mike W5VSI
On 1/31/2010 19:33, L. Paul Verhage wrote:
>
>
>
--
Onwards and Upwards,
Paul

6410. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-01 17:10:06 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6410

Okay. So I want to add a cap across the GM tube to filter out the pulses.
I think I should also increase the pulse frequency in order that I can use a
smaller value cap.

If I remember right, someone said I should also include a resistor with that
cap to limit current?

Paul

On Mon, Feb 1, 2010 at 10:34 AM, James Hannon <jmhannon@...> wrote:

>
>
> Paul,
> Quenching and dead time are sort of two separate things. When a particle
> strikes the tube it creates a cloud of charged particles along the path. The
> high voltage applied to the tube causes the charged particles to drift to
> the electrodes generating a current when the collect on the electrodes.
> Until these particles all drift out of the tube the tube is dead to new
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> tube will clear the charged particles faster thus reducing the dead time.
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> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
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>
> -----Original Message-----

> From: "L. Paul Verhage" <nearsys@...>
> Sent 2/1/2010 9:34:58 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Geiger Counter
>
> From the oscope display I can see the tube is self-quenching. I'm
> wondering though if I can speed up the process by controlling the power.
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>> From: "Mike Manes" <mrmanes@...>
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>> To: "L. Paul Verhage" <nearsys@...>
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>> Subject: Re: [GPSL] Geiger Counter
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Onwards and Upwards,
Paul

6411. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 02:53:12 UTC
From: Mike Manes
Topic: 6394 Message: 6411

Hi Paul,

Hot melt can work as a conformal coating provided you heat the target surfaces up to the glue melt temperature and you make SURE there are no air bubbles in or under the coat. Clear nail polish or heavy acrylic paint is easy to apply properly - the idea is to get all the air and other gasses far enough away from the high voltage points that they are in a low enough E-field gradient to prevent avalanche. Even a tiny air bubble in HV insulation can support corona that will eventually eat its way thru, leaving a carbon track behind.

73 de Mike W5VSI

On 2/1/2010 08:34, L. Paul Verhage wrote:
>
>
> From the oscope display I can see the tube is self-quenching. I'm
> wondering though if I can speed up the process by controlling the
> power. Right now its dead time is 50 or so ms. I'd like to knock that
> down.
> There is a problem with the 600 volts in a vacuum. The display LED is
> constantly on as current jumps across the high voltage terminals. I'll
> cover them with hot glue to see if that helps.
> Paul
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> On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@...
> <mailto:jmhannon@...>> wrote:
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> I really believe that the Geiger tube in the electronic goldmine kit
> is self quenching and does not need any external power supply
> manipulation to properly quench. What appears to be the tube is on
> this page
> http://www.imagesco.com/geiger/geiger-counter-tubes.html It is
> listed as having a fill gas of Neon, Argon and Bromine. Bromine is
> the quench gas. All a self quenching tube needs to operate properly
> is a steady HV supply within the plateau region of the tube and a
> high value series resistor.
> Here is another power supply circuit. I like this one because it is
> adjustable but it does have a lot of parts.
> http://pdfserv.maxim-ic.com/en/an/AN3757.pdf
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> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W

> WB0TXL
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> -----Original Message-----
> From: "Mike Manes" <mrmanes@... <mailto:mrmanes@...>>
> Sent 1/31/2010 9:52:41 PM
> To: "L. Paul Verhage" <nearsys@... <mailto:nearsys@...>>
> Cc: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Subject: Re: [GPSL] Geiger Counter
>
> Hi Paul,
> Looking over the SparkFun device, I don't see any means for the uP to
> control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power
> oscillator driving a step-up xformer that feeds a voltage tripler,
> D2-D4. G-M tube discharge current is limited by R7-8 (11 meg).
> The R7-8 x C6 time constant is about 110 ms, which is a lot longer
> than the G-M tube quench time.
> But I think you have a good idea to use the uP to control the HV
> supply. Not sure I've seen that approach taken before.
> BTW, I still think you should run it thru your altitude chamber
> before flying it. Corona discharge could as a minimum ruin your
> data, if not your hardware. I've seen it happen!
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6412. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 04:48:07 UTC
From: Mike Manes
Topic: 6394 Message: 6412

Hi Paul,

I finally got the 2x 348x480 .bmp's that got posted on Yahoo - pretty low res for schematics, but I think I've figured it out:

The HV bias for the G-M tube is RC filtered by R3 (100 K) and C3 (10 pF), yielding a 1 usec time constant. The charge on C3 will drain off R4 & R6 (4.7 meg || 10 meg) with a TC = 32 usec or until the tube fires, and then its <1.8 uJ of energy is dumped, creating a click in the speaker and blink in the LED. After that, the tube is unbiased until the next +HV pulse from the 125 Hz power oscillator. So its fastest count rate is 125 Hz - a bit less than the rate you expected. Now, I'm not sure why you get a string of 5 pulses, unless the plasma in the tube takes over 64 msec to decay (quench). So your scheme to shut off the oscillator for a bit (< 64 msec) after you get a hit will do the trick, but that would slow your max count rate down to < 16 cps or < 1000 cpm.

73 de Mike W5VSI

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> wondering though if I can speed up the process by controlling the
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> high value series resistor.
> Here is another power supply circuit. I like this one because it is

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> Sent 1/31/2010 9:52:41 PM
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A. Einstein

6413. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 05:00:58 UTC
From: Mike Manes
Topic: 6394 Message: 6413

Hi Jim,

In the absence of an E-field, the electrons and ions that comprised the plasma will spontaneously recombine due to electrostatic attraction. The time necessary for that to happen is a function of the volume and density of the plasma particles, and the presence of the same E-field that created the plasma will slow that process down. Now, given the puny value of the C3 filter cap (10 pF), I'd not be surprised if its voltage took a dive as soon as the rectifier went into reverse bias - simply due stored charge recovery; the 1N7000 isn't a fast recovery diode - not enough to totally discharge the cap, but enough to make the G-M tube more sensitive during the charge cycle from the oscillator.

I'm thinking we're boring most of the GPSL crew to tears with this thread, so maybe we oughta take it direct?

73 de Mike W5VSI

On 2/1/2010 09:34, James Hannon wrote:
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> Paul,
> Quenching and dead time are sort of two separate things. When a particle
> strikes the tube it creates a cloud of charged particles along the path.
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> drift to the electrodes generating a current when the collect on the
> electrodes. Until these particles all drift out of the tube the tube is
> dead to new pulses. Just because you cannot tell the difference between
> the current geneated by the first particle from any other particle. The
> time to dirft depends on the distance between the inner and outer
> electrodes and the applied voltage. The higher the voltage the faster
> the drift or shorter the dead time. The smaller the distance between the
> electrodes the shorter the dead time. But you can't go too high or the
> tube will arc over. Reducing the tubes voltage will quench the tube but
> it actually increases the dead time. I believe what you are seeing with
> the multiple pulses in your counter is that the high voltage is applied
> in pulses. Each pulse does not last long enough to clear the charged
> particles from the tube, so they stay creating current for several
> voltage pulses. A steady high voltage applied to the tube will clear the
> charged particles faster thus reducing the dead time. Quenching is
> preventing the drifting particles from striking other atoms and causing
> an avalanche effect. The quench gas absorbes the collisions without
> generating other ions. The idea of turning off the high voltage for
> quench prevents collisions by reducing or stopping the drift of the
> charged particles. Then you wait a loong time for all the ions to
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> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
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> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 2/1/2010 9:34:58 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Geiger Counter
>
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> wondering though if I can speed up the process by controlling the power.
> Right now its dead time is 50 or so ms. I'd like to knock that down.
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> 42,11.90N,91,39.26W
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> From: "Mike Manes" <mrmanes@... <mailto:mrmanes@...>>
> Sent 1/31/2010 9:52:41 PM
> To: "L. Paul Verhage" <nearsys@... <mailto:nearsys@...>>

> Cc: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Subject: Re: [GPSL] Geiger Counter
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6414. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 14:37:29 UTC
From: BASE
Topic: 6394 Message: 6414

Mike, Jim, and Paul,

I'm really enjoying the discussion. Sort of thing that an old arks and sparks experimental physicist likes to think about. If you do go direct, I'd like to read along.

Thanks,

Howard (hlbrooks@ depauw.edu)

--- On Tue, 2/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Geiger Counter
To: "James Hannon" <jmhannon@...>
Cc: GPSL@yahoogroups.com
Date: Tuesday, February 2, 2010, 12:00 AM

Hi Jim,

In the absence of an E-field, the electrons and ions that comprised the

plasma will spontaneously recombine due to electrostatic attraction. The

time necessary for that to happen is a function of the volume and density

of the plasma particles, and the presence of the same E-field that created

the plasma will slow that process down. Now, given the puny value of the

C3 filter cap (10 pF), I'd not be surprised if its voltage took a dive as

soon as the rectifier went into reverse bias - simply due stored charge

recovery; the 1N7000 isn't a fast recovery diode - not enough to totally

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> Jim Hannon
> http://www.fmtcs. com/web/jmhannon /
> 42,11.90N,91, 39.26W

> WB0TXL

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>

> -----Original Message-----

> From: "L. Paul Verhage" <nearsys@gmail. com>

> Sent 2/1/2010 9:34:58 AM

> To: GPSL@yahoogroups. com

> Subject: Re: [GPSL] Geiger Counter

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> Right now its dead time is 50 or so ms. I'd like to knock that down.

> There is a problem with the 600 volts in a vacuum. The display LED is

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> Paul

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> On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@fmtcs. com

> <mailto:jmhannon@fmtcs. com>> wrote:

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> It is listed as having a fill gas of Neon, Argon and Bromine.

> Bromine is the quench gas. All a self quenching tube needs to

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> -----Original Message-----

> From: "Mike Manes" <mrmanes@gmail. com <mailto:mrmanes@gmail. com>>

> Sent 1/31/2010 9:52:41 PM

> To: "L. Paul Verhage" <nearsys@gmail. com <mailto:nearsys@gmail. com>>

> Cc: GPSL@yahoogroups. com <mailto:GPSL@yahoogroups. com>

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6415. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 14:48:39 UTC
From: Roger Hammond
Topic: 6394 Message: 6415

If no one else has any objections, I'd say leave the discussion on the list.
I've been enjoying it, as well.

Rog KC0MWM

On Tue, Feb 2, 2010 at 8:37 AM, BASE <basedepauw@...> wrote:

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> Mike, Jim, and Paul,
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> > To: GPSL@yahoogroups. com <http://mc/compose?to=GPSL%40yahoogroups.com>
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> > Onwards and Upwards,
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> Mike Manes mrmanes@gmail. com <http://mc/compose?to=mrmanes%40gmail.com>Tel:
303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>

6416. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 14:56:33 UTC
From: mw@omsrc.com
Topic: 6394 Message: 6416

Same here, sensors used on AHABs are appropriate content here, but
let's keep the subject as Geiger Counter so that others can delete /
filter easily as they wish. I am enjoying the conversation and
thoughts about improving the sensor as well.

--Michael K5NOT

Quoting Roger Hammond <kc0mwm@gmail.com>:

> If no one else has any objections, I'd say leave the discussion on the list.
> I've been enjoying it, as well.
>
> Rog KC0MWM
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> On Tue, Feb 2, 2010 at 8:37 AM, BASE <basedepauw@...> wrote:
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>> Thanks,
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>> Howard (hlbrooks@ depauw.edu)
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>> --- On *Tue, 2/2/10, Mike Manes <mrmanes@...>* wrote:
>>
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>> From: Mike Manes <mrmanes@...>
>> Subject: Re: [GPSL] Geiger Counter
>> To: "James Hannon" <jmhannon@...>
>> Cc: GPSL@yahoogroups.com
>> Date: Tuesday, February 2, 2010, 12:00 AM
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>> Hi Jim,
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>> plasma will spontaneously recombine due to electrostatic attraction. The
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>> C3 filter cap (10 pF), I'd not be surprised if its voltage took a dive as
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>> recovery; the 1N7000 isn't a fast recovery diode - not enough to totally
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>> > 42,11.90N,91, 39.26W
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>> >
>> > -----Original Message-----

>> > From: "L. Paul Verhage" <nearsys@gmail.
>> com<http://mc/compose?to=nearsys%40gmail.com>
>> >
>> > Sent 2/1/2010 9:34:58 AM
>> > To: GPSL@yahoogroups. com <http://mc/compose?to=GPSL%40yahoogroups.com>
>> > Subject: Re: [GPSL] Geiger Counter
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6417. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 15:04:04 UTC
From: Timothy Cathcart
Topic: 6394 Message: 6417

I also agree this is a great discussion.

Tim
KC8ZNJ

--
Timothy Cathcart
RM&T Engineer
Grand Rapids, MI

On Tue, Feb 2, 2010 at 9:56 AM, <mw@omsrc.com> wrote:

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> Same here, sensors used on AHABs are appropriate content here, but
> let's keep the subject as Geiger Counter so that others can delete /
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6418. RE: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 15:06:44 UTC
From: Nick Hanks
Topic: 6394 Message: 6418

I'm finding the Geiger Counter discussion interesting too. I vote for leaving it on the reflector.

Nick

N0LP

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Monday, February 01, 2010 22:01
To: James Hannon
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Geiger Counter

Hi Jim,

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6419. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 19:16:10 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6419

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We get around 18 CPM at Topeka level and 18 CPM in 30 inches of mercury vacuum.

I'll get a picture and post it on my blog. I have video of the test and I'll edit it into something worth posting by ther weekend. I'm sure no one wants to watch 5 minutes of a Geiger counter LED blinking.

Paul

On Tue, Feb 2, 2010 at 9:06 AM, Nick Hanks <ndhanks@...> wrote:

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> I’m finding the Geiger Counter discussion interesting too. I vote for
> leaving it on the reflector.
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> Nick
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> N0LP
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> ------------------------------
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Mike
> Manes
> *Sent:* Monday, February 01, 2010 22:01
> *To:* James Hannon
> *Cc:* GPSL@yahoogroups.com
>
> *Subject:* Re: [GPSL] Geiger Counter
>
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> Hi Jim,
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> plasma will spontaneously recombine due to electrostatic attraction. The
> time necessary for that to happen is a function of the volume and density
> of the plasma particles, and the presence of the same E-field that created
> the plasma will slow that process down. Now, given the puny value of the
> C3 filter cap (10 pF), I'd not be surprised if its voltage took a dive as
> soon as the rectifier went into reverse bias - simply due stored charge
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> On 2/1/2010 09:34, James Hannon wrote:
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> > strikes the tube it creates a cloud of charged particles along the path.
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> > electrodes. Until these particles all drift out of the tube the tube is
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> > Jim Hannon
> > http://www.fmtcs.com/web/jmhannon/
> > 42,11.90N,91,39.26W
> > WB0TXL
> >

> >
> >
> > -----Original Message-----
> > From: "L. Paul Verhage" <nearsys@... <nearsys%40gmail.com>>
> > Sent 2/1/2010 9:34:58 AM
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Subject: Re: [GPSL] Geiger Counter
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> > From the oscope display I can see the tube is self-quenching. I'm
> > wondering though if I can speed up the process by controlling the power.
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> > On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@...<jmhannon%40fmtcs.com>
> > <mailto:jmhannon@fmtcs.com <jmhannon%40fmtcs.com>>> wrote:
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> > http://pdfserv.maxim-ic.com/en/an/AN3757.pdf
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> > -----Original Message-----
> > From: "Mike Manes" <mrmanes@... <mrmanes%40gmail.com> <mailto:
> mrmanes@gmail.com <mrmanes%40gmail.com>>>
> > Sent 1/31/2010 9:52:41 PM
> > To: "L. Paul Verhage" <nearsys@... <nearsys%40gmail.com> <mailto:
> nearsys@gmail.com <nearsys%40gmail.com>>>
> > Cc: GPSL@yahoogroups.com <GPSL%40yahoogroups.com> <mailto:
> GPSL@yahoogroups.com <GPSL%40yahoogroups.com>>
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> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
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Onwards and Upwards,
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6420. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 19:57:56 UTC
From: BASE
Topic: 6394 Message: 6420

Paul,

How does the background count rate for the Aware RM-60 compare? We're at almost the same altitude and your count rates are a little higher than our RM-60 data.

Alternatively, do you have good measurements on the GM tube volume. Perhaps the RM-60 is a little smaller.

Howard

--- On Tue, 2/2/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Geiger Counter
To: GPSL@yahoogroups.com
Date: Tuesday, February 2, 2010, 2:16 PM

Success. It appears the Geiger counter is discharging around the two negative terminals at the ends of the tube. I couldn't see a corona, but after coating the ends with hot glue, the Geiger counter has stopped producing a constant output at vacuum.

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Nick
N0LP

From: GPSL@yahoogroups. com [mailto:GPSL@yahoogroups. com] On Behalf Of Mike Manes

Sent: Monday, February 01, 2010 22:01
To: James Hannon
Cc: GPSL@yahoogroups. com

Subject: Re: [GPSL] Geiger Counter

Hi Jim,

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plasma will spontaneously recombine due to electrostatic attraction. The

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> http://www.fmtcs. com/web/jmhannon /
> 42,11.90N,91, 39.26W
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> From: "L. Paul Verhage" <nearsys@gmail. com>
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> From: "Mike Manes" <mrmanes@gmail. com <mailto:mrmanes@gmail. com>>

> Sent 1/31/2010 9:52:41 PM
> To: "L. Paul Verhage" <nearsys@gmail. com <mailto:nearsys@gmail. com>>

> Cc: GPSL@yahoogroups. com <mailto:GPSL@yahoogroups. com>
> Subject: Re: [GPSL] Geiger Counter

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Onwards and Upwards,

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6421. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-02 20:10:12 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6421

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6422. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 01:59:14 UTC
From: BASE
Topic: 6394 Message: 6422

Paul,

Alphas from radioactive decay are not very energetic, but stratospheric alphas, estimated to be 10-12% of all cosmic rays are most likely to be very energetic. I like the idea of flying both detectors, but I worry that the premise that the Electronics Gold Mine geiger only sees betas and gammas is assuming low energy alphas.

It is an interesting question. What happens if two AWARE RM-60s are flown with one having the mica window shielded by a metallic absorber similar to the walls of the GM tube in the RM 6. I might be able to do this using the carcasses of the RM-60s that floated in Lake Erie a couple of years ago.

Howard

--- On Tue, 2/2/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Geiger Counter
To: GPSL@yahoogroups.com
Date: Tuesday, February 2, 2010, 3:10 PM

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To: GPSL@yahoogroups. com
Date: Tuesday, February 2, 2010, 2:16 PM

Success. It appears the Geiger counter is discharging around the two negative terminals at the ends of the tube. I couldn't see a corona, but after coating the ends with hot glue, the Geiger counter has stopped producing a constant output at vacuum.

We get around 18 CPM at Topeka level and 18 CPM in 30 inches of mercury vacuum.

I'll get a picture and post it on my blog. I have video of the test and I'll edit it into something worth posting by ther weekend. I'm sure no one wants to watch 5 minutes of a Geiger counter LED blinking.

Paul

On Tue, Feb 2, 2010 at 9:06 AM, Nick Hanks <ndhanks@msn. com> wrote:

I’m finding the Geiger Counter discussion interesting too. I vote for leaving it on the reflector.

Nick
N0LP

From: GPSL@yahoogroups. com [mailto:GPSL@yahoogroups. com] On Behalf Of Mike Manes

Sent: Monday, February 01, 2010 22:01
To: James Hannon
Cc: GPSL@yahoogroups. com

Subject: Re: [GPSL] Geiger Counter

Hi Jim,

In the absence of an E-field, the electrons and ions that comprised the
plasma will spontaneously recombine due to electrostatic attraction. The

time necessary for that to happen is a function of the volume and density
of the plasma particles, and the presence of the same E-field that created
the plasma will slow that process down. Now, given the puny value of the

C3 filter cap (10 pF), I'd not be surprised if its voltage took a dive as
soon as the rectifier went into reverse bias - simply due stored charge
recovery; the 1N7000 isn't a fast recovery diode - not enough to totally

discharge the cap, but enough to make the G-M tube more sensitive during
the charge cycle from the oscillator.

I'm thinking we're boring most of the GPSL crew to tears with this thread,
so maybe we oughta take it direct?

73 de Mike W5VSI

On 2/1/2010 09:34, James Hannon wrote:
>
>
> Paul,
> Quenching and dead time are sort of two separate things. When a particle
> strikes the tube it creates a cloud of charged particles along the path.

> The high voltage applied to the tube causes the charged particles to
> drift to the electrodes generating a current when the collect on the
> electrodes. Until these particles all drift out of the tube the tube is

> dead to new pulses. Just because you cannot tell the difference between
> the current geneated by the first particle from any other particle. The
> time to dirft depends on the distance between the inner and outer

> electrodes and the applied voltage. The higher the voltage the faster
> the drift or shorter the dead time. The smaller the distance between the
> electrodes the shorter the dead time. But you can't go too high or the

> tube will arc over. Reducing the tubes voltage will quench the tube but
> it actually increases the dead time. I believe what you are seeing with
> the multiple pulses in your counter is that the high voltage is applied

> in pulses. Each pulse does not last long enough to clear the charged
> particles from the tube, so they stay creating current for several
> voltage pulses. A steady high voltage applied to the tube will clear the

> charged particles faster thus reducing the dead time. Quenching is
> preventing the drifting particles from striking other atoms and causing
> an avalanche effect. The quench gas absorbes the collisions without

> generating other ions. The idea of turning off the high voltage for
> quench prevents collisions by reducing or stopping the drift of the
> charged particles. Then you wait a loong time for all the ions to

> recombine and setttle down.
>
> Jim Hannon
> http://www.fmtcs. com/web/jmhannon /
> 42,11.90N,91, 39.26W
> WB0TXL

>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@gmail. com>
> Sent 2/1/2010 9:34:58 AM

> To: GPSL@yahoogroups. com
> Subject: Re: [GPSL] Geiger Counter
>
> From the oscope display I can see the tube is self-quenching. I'm

> wondering though if I can speed up the process by controlling the power.
> Right now its dead time is 50 or so ms. I'd like to knock that down.
> There is a problem with the 600 volts in a vacuum. The display LED is

> constantly on as current jumps across the high voltage terminals. I'll
> cover them with hot glue to see if that helps.
> Paul

>
> On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@fmtcs. com

> <mailto:jmhannon@fmtcs. com>> wrote:
>
>
>
> I really believe that the Geiger tube in the electronic goldmine kit

> is self quenching and does not need any external power supply
> manipulation to properly quench. What appears to be the tube is on
> this page http://www.imagesco .com/geiger/ geiger-counter- tubes.html

> It is listed as having a fill gas of Neon, Argon and Bromine.
> Bromine is the quench gas. All a self quenching tube needs to
> operate properly is a steady HV supply within the plateau region of
> the tube and a high value series resistor.

> Here is another power supply circuit. I like this one because it is
> adjustable but it does have a lot of parts.
> http://pdfserv. maxim-ic. com/en/an/ AN3757.pdf

>
> Jim Hannon
> http://www.fmtcs. com/web/jmhannon /
> 42,11.90N,91, 39.26W
> WB0TXL
>
>
>
> -----Original Message-----

> From: "Mike Manes" <mrmanes@gmail. com <mailto:mrmanes@gmail. com>>

> Sent 1/31/2010 9:52:41 PM
> To: "L. Paul Verhage" <nearsys@gmail. com <mailto:nearsys@gmail. com>>

> Cc: GPSL@yahoogroups. com <mailto:GPSL@yahoogroups. com>

> Subject: Re: [GPSL] Geiger Counter
>
> Hi Paul,
> Looking over the SparkFun device, I don't see any means for the uP to
> control the G-M tube HV bias; Q1-Q2 comprise a free-running ~50 Hz power

> oscillator driving a step-up xformer that feeds a voltage tripler,
> D2-D4. G-M tube discharge current is limited by R7-8 (11 meg).
> The R7-8 x C6 time constant is about 110 ms, which is a lot longer

> than the G-M tube quench time.
> But I think you have a good idea to use the uP to control the HV
> supply. Not sure I've seen that approach taken before.
> BTW, I still think you should run it thru your altitude chamber

> before flying it. Corona discharge could as a minimum ruin your
> data, if not your hardware. I've seen it happen!
> 73 de Mike W5VSI
> On 1/31/2010 19:33, L. Paul Verhage wrote:
> >

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> >
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>
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> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

6423. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 04:07:30 UTC
From: Mike Manes
Topic: 6394 Message: 6423

Good for ya, Paul! Now, low-energy corona is often hard to see. We used to completely darken the lab to see it and let our eyes dark-adapt a few minutes. But even the dim stuff can be evil if allowed to persist for a while. Glad you got shut of the symptoms - but it may still be lurking in the background, gradually nibbling away at neighboring polymers.

And I was stunned by the number of GPSL folks who've been reading this tedious, geeky thread. C'mon - git a life! :=}.

73 de Mike W5VSI

On 2/2/2010 12:16, L. Paul Verhage wrote:
>
>
> Success. It appears the Geiger counter is discharging around the two
> negative terminals at the ends of the tube. I couldn't see a corona,
> but after coating the ends with hot glue, the Geiger counter has stopped
> producing a constant output at vacuum.
> We get around 18 CPM at Topeka level and 18 CPM in 30 inches of mercury
> vacuum.
> I'll get a picture and post it on my blog. I have video of the test and
> I'll edit it into something worth posting by ther weekend. I'm sure no
> one wants to watch 5 minutes of a Geiger counter LED blinking.
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>
> I’m finding the Geiger Counter discussion interesting too. I vote
> for leaving it on the reflector.
>
> Nick
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> N0LP
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> ---
>
> *From:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On
> Behalf Of *Mike Manes
> *Sent:* Monday, February 01, 2010 22:01
> *To:* James Hannon
> *Cc:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>

> *Subject:* Re: [GPSL] Geiger Counter
>
> Hi Jim,
>
> In the absence of an E-field, the electrons and ions that comprised the
> plasma will spontaneously recombine due to electrostatic attraction. The
> time necessary for that to happen is a function of the volume and
> density
> of the plasma particles, and the presence of the same E-field that
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> the plasma will slow that process down. Now, given the puny value of the
> C3 filter cap (10 pF), I'd not be surprised if its voltage took a
> dive as
> soon as the rectifier went into reverse bias - simply due stored charge
> recovery; the 1N7000 isn't a fast recovery diode - not enough to totally
> discharge the cap, but enough to make the G-M tube more sensitive during
> the charge cycle from the oscillator.
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> > Jim Hannon
> > http://www.fmtcs.com/web/jmhannon/
> > 42,11.90N,91,39.26W
> > WB0TXL
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> > -----Original Message-----
> > From: "L. Paul Verhage" <nearsys@...
> <mailto:nearsys%40gmail.com>>
> > Sent 2/1/2010 9:34:58 AM
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > Subject: Re: [GPSL] Geiger Counter
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> > From the oscope display I can see the tube is self-quenching. I'm
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> > Paul
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> > On Mon, Feb 1, 2010 at 7:57 AM, James Hannon <jmhannon@fmtcs.com
> <mailto:jmhannon%40fmtcs.com>
> > <mailto:jmhannon@... <mailto:jmhannon%40fmtcs.com>>> wrote:
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> > operate properly is a steady HV supply within the plateau region of

> > the tube and a high value series resistor.
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> > adjustable but it does have a lot of parts.
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> > 42,11.90N,91,39.26W
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> > -----Original Message-----
> > From: "Mike Manes" <mrmanes@... <mailto:mrmanes%40gmail.com>
> <mailto:mrmanes@... <mailto:mrmanes%40gmail.com>>>
> > Sent 1/31/2010 9:52:41 PM
> > To: "L. Paul Verhage" <nearsys@...
> <mailto:nearsys%40gmail.com> <mailto:nearsys@gmail.com
> <mailto:nearsys%40gmail.com>>>
> > Cc: GPSL@...m <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > Subject: Re: [GPSL] Geiger Counter
> >
> > Hi Paul,
> > Looking over the SparkFun device, I don't see any means for the uP to
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> > oscillator driving a step-up xformer that feeds a voltage tripler,
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> > But I think you have a good idea to use the uP to control the HV
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> > BTW, I still think you should run it thru your altitude chamber
> > before flying it. Corona discharge could as a minimum ruin your
> > data, if not your hardware. I've seen it happen!
> > 73 de Mike W5VSI
> > On 1/31/2010 19:33, L. Paul Verhage wrote:
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> > Onwards and Upwards,
> > Paul

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> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6424. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 04:30:01 UTC
From: Alan Sieg WB5RMG
Topic: 6394 Message: 6424

> Good for ya, Paul! . .. .
>
> And I was stunned by the number of GPSL folks who've been reading this
> tedious, geeky thread. C'mon - git a life! :=}.
>
> 73 de Mike W5VSI

Surely you are familiar with the concept of "Intelligence by Association";
Yall are making the rest of us look smart, cause now we know some new words !
And if we practice, we can use em in complete sentances !

Otherwise I'm mighty impressed at the depth some of this goes to...
I'd say we are hanging with a pretty sharp crowd,
and mighty lucky that yall let us in on such detail.
I've learnt a lot more about Geiger Counters than I ever expected to.

Please - don't let us hold you back..!.. Carry on !
73 for now /;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6425. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 04:43:30 UTC
From: Mike Manes
Topic: 6394 Message: 6425

Hey, I'm a consultant -- flinging out flancy-sounding lexicon is my
stock in trade :=P.

On 2/2/2010 21:30, Alan Sieg WB5RMG wrote:
>
>> Good for ya, Paul! . .. .
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>> And I was stunned by the number of GPSL folks who've been reading this
>> tedious, geeky thread. C'mon - git a life! :=}.
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> Please - don't let us hold you back..!.. Carry on !
> 73 for now /;^)

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6426. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 14:01:15 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6426
Attachments: 2 described; binary payloads are missing from this source WARC

I ran both GMs in my home office last night and have attached the spreadsheet. The columns include the raw counts for both detectors and the modified counts for the Goldmine counter. Recall that there is 6 pulses per detection and occasionally 5 in the Goldmien detector. I divided the raw count by six and looked at the remainder to determine how many missing pulses there were. Then I added those back to get a final, corrected count.

The Goldmine GM detected a lot more radiation, but has a narrower spread across the values (lower standard deviation) when the two counters are scaled.

Does anyone know how to make Excel plot the distribution of counts? I'd like to show the distribution plots. In the final columns I'm putting this data together by hand. I don't mind this, but I do have a real job and and school in the afternoons.

I've also attached a photo of the glued GM tube. It ain't pretty.

I'll purchase the smaller GM tube from Goldmine and see about operating it from a PICAXE-08M. I can experiment with electronic quenching (if it works) and with the best pulse rate. Perhaps by adjusting the PWM signal from the PICAXE, I can change the standard deviation.
Finally, my wife and I will be completing school in December (11 months). I'd be interested to hear what the job market is like at universities.

All for now,
Paul
On Tue, Feb 2, 2010 at 10:43 PM, Mike Manes <mrmanes@...> wrote:

> Hey, I'm a consultant -- flinging out flancy-sounding lexicon is my
> stock in trade :=P.
>
> On 2/2/2010 21:30, Alan Sieg WB5RMG wrote:
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6427. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 14:03:22 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6427

Oh, the Goldmine tube is 3.5 inches long and 0.4 inches in diameter. The RM-60 tube is 1.5 inches long and .6 in diameter. The volumes are the same, but thre should be more frontal area for cosmic rays to pass through on the Goldmine tube.

Note, these numbers should be right, but I'm trying to recall them from last night. I can't find my notes, so it's possible I'll give you updated numbers tomorrow.

Paul

On Tue, Feb 2, 2010 at 10:43 PM, Mike Manes <mrmanes@...> wrote:

> Hey, I'm a consultant -- flinging out flancy-sounding lexicon is my
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> On 2/2/2010 21:30, Alan Sieg WB5RMG wrote:
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Onwards and Upwards,
Paul

6428. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 15:46:10 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6428

Found the measurements.

The RM-60 tube is 1.5" long and 0.6" in diameter
The Goldmine GM tube is 3.6" long and 0.4" in diameter.

The RM-60 has 0.42 cu in volume and the Goldmine has 0.45 cu in volume.

The cross area of the RM-60 is 0.9 sq in and the Goldmine is 1.44. That
makes the Goldmine 1.6 times larger.

Paul

On Wed, Feb 3, 2010 at 8:03 AM, L. Paul Verhage <nearsys@...> wrote:

> Oh, the Goldmine tube is 3.5 inches long and 0.4 inches in diameter. The
> RM-60 tube is 1.5 inches long and .6 in diameter. The volumes are the same,
> but thre should be more frontal area for cosmic rays to pass through on the
> Goldmine tube.
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> Note, these numbers should be right, but I'm trying to recall them from
> last night. I can't find my notes, so it's possible I'll give you updated
> numbers tomorrow.
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Onwards and Upwards,
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6429. Re: [GPSL] Geiger Counter Spreadsheet with Histogram

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 16:09:21 UTC
From: BASE
Topic: 6429 Message: 6429
Attachments: 1 described; binary payloads are missing from this source WARC

Paul,

The histogram function is available on Excel, if you have the data analysis tool pack, which Microsoft views as an add-in. The online help can assist you in binning the data and making the plot.

I've attached a spreadsheet with the histogram plotted on separate worksheets, although I've put all of the raw bin data on the front sheet.

Howard

--- On Wed, 2/3/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Geiger Counter [2 Attachments]
To: GPSL@yahoogroups.com
Date: Wednesday, February 3, 2010, 9:01 AM

[Attachment(s) from L. Paul Verhage included below]

I ran both GMs in my home office last night and have attached the spreadsheet. The columns include the raw counts for both detectors and the modified counts for the Goldmine counter. Recall that there is 6 pulses per detection and occasionally 5 in the Goldmien detector. I divided the raw count by six and looked at the remainder to determine how many missing pulses there were. Then I added those back to get a final, corrected count.

The Goldmine GM detected a lot more radiation, but has a narrower spread across the values (lower standard deviation) when the two counters are scaled.

Does anyone know how to make Excel plot the distribution of counts? I'd like to show the distribution plots. In the final columns I'm putting this data together by hand. I don't mind this, but I do have a real job and and school in the afternoons.

I've also attached a photo of the glued GM tube. It ain't pretty.

I'll purchase the smaller GM tube from Goldmine and see about operating it from a PICAXE-08M. I can experiment with electronic quenching (if it works) and with the best pulse rate. Perhaps by adjusting the PWM signal from the PICAXE, I can change the standard deviation.

Finally, my wife and I will be completing school in December (11 months). I'd be interested to hear what the job market is like at universities.

All for now,
Paul

On Tue, Feb 2, 2010 at 10:43 PM, Mike Manes <mrmanes@gmail. com> wrote:

Hey, I'm a consultant -- flinging out flancy-sounding lexicon is my
stock in trade :=P.

On 2/2/2010 21:30, Alan Sieg WB5RMG wrote:
>
>> Good for ya, Paul! . .. .
>>
>> And I was stunned by the number of GPSL folks who've been reading this

>> tedious, geeky thread. C'mon - git a life! :=}.
>>
>> 73 de Mike W5VSI
>
> Surely you are familiar with the concept of "Intelligence by Association";
> Yall are making the rest of us look smart, cause now we know some new words !

> And if we practice, we can use em in complete sentances !
>
> Otherwise I'm mighty impressed at the depth some of this goes to...
> I'd say we are hanging with a pretty sharp crowd,
> and mighty lucky that yall let us in on such detail.

> I've learnt a lot more about Geiger Counters than I ever expected to.
>
> Please - don't let us hold you back..!.. Carry on !
>   73 for now   /;^)

--

Mike Manes   mrmanes@gmail. com   Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

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Yahoo! Groups Links

   (Yahoo! ID required)

--
Onwards and Upwards,
Paul

6430. Re: Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 17:48:17 UTC
From: Dave
Topic: 6394 Message: 6430

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> The GM I'm using now is claimed to be sensitive and can only detect betas
> and gammas (it doesn't have a mica window like the RM-60). The tube is
> longer, but narrower than the Aware unit.
>
> I'll make measurements tonight and compare them. I'd like to fly both
> together to see how many alphas there are in near space.

The thing to do may be to compare the counts while using a check source on the ground. That should let you build an intensity profile of alpha sensitivity. There are, of course, quite a few alpha particle emitters out there; the trick may be getting something pure enough, and not contaminated with decay daughter products, to get a reasonably pure, single energy alpha particle output.

Note that energetic alphas may produce secondary betas (or even gammas) when encountering some materials. For that matter, some energetic alphas may even knock secondary neutrons out for the rare nucleus collisions (e.g., with Beryllium), and neutrons can do all sorts of screwy things (That's technical jargon there!). :*)

Ohoh, why is it I think some of this discussion may have just made your payload package a LOT more complex? :*)

Note that exempt check sources are available from a variety of places (e.g., United Nuclear, I think), usually for not too much money, and some improvised check sources may be even cheaper (e.g., Fiestaware orange dishes, and vaseline glass, which contains Uranium Dioxide).

> Paul

Dave

P.S. Yes, I have a bag of vaseline glass marbles, and could even send you some, but I don't currently have a meter, so I can't tell how active they are.

6431. Re: [GPSL] Re: Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-03 18:49:53 UTC
From: L. Paul Verhage
Topic: 6394 Message: 6431

I have a piece of orange Fiesta Ware inside my near space environmental test chamber. Great stuff. The Goldmine detector picks up a significant count near the china, so I suspect there's lots of decay products inside the glaze. If I recall, the alphas from Uranium are 4.5 MeV, as are the alphas from its first decay product, thorium.

I had a bad experience with United Nuclear back in 2003-2004. They cashed my check, but never sent my product. I'd be curious if anyone else has dealt with them.

It's no problem making the experiments more complex. It gives you an excuse to fly again. Besides, you never know what you're going to learn.

One apparent issue is how sensitive each detector is to the same radiation. That's a good reason to purchase a pure radiation source. It's like of like starting a project at home and using it as a justification to purchase new tools.
;)

Paul

On Wed, Feb 3, 2010 at 11:48 AM, Dave <wa4qal@...> wrote:

> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > The GM I'm using now is claimed to be sensitive and can only detect betas
> > and gammas (it doesn't have a mica window like the RM-60). The tube is
> > longer, but narrower than the Aware unit.
> >
> > I'll make measurements tonight and compare them. I'd like to fly both
> > together to see how many alphas there are in near space.
>
> The thing to do may be to compare the counts while using a check source
> on the ground. That should let you build an intensity profile of alpha
> sensitivity. There are, of course, quite a few alpha particle emitters out
> there; the trick may be getting something pure enough, and not
> contaminated with decay daughter products, to get a reasonably pure,
> single energy alpha particle output.
>
> Note that energetic alphas may produce secondary betas (or even
> gammas) when encountering some materials. For that matter, some
> energetic alphas may even knock secondary neutrons out for the rare
> nucleus collisions (e.g., with Beryllium), and neutrons can do all sorts of
> screwy things (That's technical jargon there!). :*)
>
> Ohoh, why is it I think some of this discussion may have just made your

> payload package a LOT more complex? :*)
>
> Note that exempt check sources are available from a variety of places
> (e.g., United Nuclear, I think), usually for not too much money, and some
> improvised check sources may be even cheaper (e.g., Fiestaware orange
> dishes, and vaseline glass, which contains Uranium Dioxide).
>
> > Paul
>
> Dave
>
> P.S. Yes, I have a bag of vaseline glass marbles, and could even send
> you some, but I don't currently have a meter, so I can't tell how active
> they are.
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

6432. Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-04 21:16:18 UTC
From: Mark Conner
Topic: 6432 Message: 6432

I've found a new snag in my VHS-C video capture project. It appears that several of my tapes have segments where the sync signal is so messed up the capture device can't deal with it and aborts the capture. With all the RF hits and mechanical shaking the camcorder went through at the time, I guess it's not too surprising that the video signal isn't too clean.

From what I could find with Google, it appears a time-base corrector may solve these problems. It effectively reproduces each line or frame with a properly-formatted sync that will hopefully let the capture device record properly. It should also produce a cleaner video copy as a bonus.

Does anyone on the list have a TBC that they'd be willing to loan out for a few weeks? I'm more than happy to pay a reasonable rental fee and insured/tracked shipping both ways.

73 de Mark N9XTN

6433. Re: [KNSP] Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-04 21:56:26 UTC
From: HarryM
Topic: 6433 Message: 6433

Hi Mark,

Could you not record several segments, eliminating the bad areas, then splicing the segments together digitally in the software?

73 Harry KC5TRB

6434. Re: [GPSL] Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-04 22:22:29 UTC
From: mw@omsrc.com
Topic: 6432 Message: 6434

You are correct, the Time-base corrector (TBC) will help provide stability to your video. We designed and sold these along with our cameras and video tape recorders during my days at Ampex Corp in Redwood City, CA. This was all professional grade equipment. The TBC digitally corrected the time between horizontal sweeps and inserted it's own sync signals. You could sync the TBC and the video player to house sync for playback on the air.

You can look at some of the long-standing video production houses in your area for use of their TBC. Local news stations that have been around a while and companies specializing in making of commercials may still have these. In the past decade, most video has gone digital, so TBCs are not used as much, but a lot of older video material is still on tape.

Cameras and video tape machines that brought you the 1979 Lake Placid Olympics were machines I worked on right out of college. Man that was long ago!

--Michael K5NOT

Quoting Mark Conner <mconner1@...>:

> I've found a new snag in my VHS-C video capture project. It appears that
> several of my tapes have segments where the sync signal is so messed up the
> capture device can't deal with it and aborts the capture. With all the RF
> hits and mechanical shaking the camcorder went through at the time, I guess
> it's not too surprising that the video signal isn't too clean.
>
> From what I could find with Google, it appears a time-base corrector may
> solve these problems. It effectively reproduces each line or frame with a
> properly-formatted sync that will hopefully let the capture device record
> properly. It should also produce a cleaner video copy as a bonus.
>
> Does anyone on the list have a TBC that they'd be willing to loan out for a
> few weeks? I'm more than happy to pay a reasonable rental fee and
> insured/tracked shipping both ways.
>
> 73 de Mark N9XTN
>

6435. Re: [KNSP] Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-04 23:34:12 UTC
From: Mark Conner
Topic: 6433 Message: 6435

Harry,

Yes, however, on at least one tape the chaos after burst won't capture for a couple of minutes due to the glitches. I have a couple of other tapes where the RF from the APRS beacon glitches the video every 30 seconds. The video playback on screen isn't that rough, but apparently the sync is so ragged that the capture device gives up. If I want to record "around" the glitches, this means babysitting the playback and stopping/restarting the tape frequently. More trouble than I really want to go to.

There are some "pro-sumer" TBC units for about $200. Commercial units are four figures. I found a place that rents them online, but they a few hundred $$ per week. I'm hoping someone on the list encountered the same thing digitizing their home movies and has a prosumer unit sitting around.

The units do pop up on eBay from time to time and if I can snag one at a reasonable price I'll get it for this project and resell it later.

As an aside, while we're on the subject of video, I got my wife a Kodak Zi8 to get video of the kids. It will do HD video at 1080p/30fps or 720p/60fps (also standard-def equivalent). The Zi6 is a similar unit but uses AA batteries (preferable for balloon use, I think) and does not have image stabilization. The Zi6 can be had for under $100 and should produce excellent video - the Zi8 video is outstanding for a unit in its price class. Likely equal or better than the Flip units. Records to SD cards.

73 de Mark N9XTN

On Thu, Feb 4, 2010 at 15:56, HarryM <hhm_74115@...> wrote:

> Hi Mark,
>
> Could you not record several segments, eliminating the bad areas, then
> splicing the segments together digitally in the software?
>
> 73 Harry KC5TRB
>
>

6436. Re: [GPSL] Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-04 23:43:24 UTC
From: Mark Conner
Topic: 6432 Message: 6436

Hi Mike,

Thanks for the tip about contacting a video production company. Dunno if they'd loan/rent one out for a while, but the worst they can say is no. I have a passing ham acquaintance who's a tech at a local TV station, so I might see if that angle will work.

- Mark

On Thu, Feb 4, 2010 at 16:22, <mw@...> wrote:

>
>
>
> You can look at some of the long-standing video production houses in
> your area for use of their TBC. Local news stations that have been
> around a while and companies specializing in making of commercials may
> still have these. In the past decade, most video has gone digital, so
> TBCs are not used as much, but a lot of older video material is still
> on tape.
>
>

6437. Re: [GPSL] Time-base corrector rental

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-05 01:56:16 UTC
From: mw@omsrc.com
Topic: 6432 Message: 6437

Hi Mark,

I was thinking more like taking your equipment to them and playing
through their system in off-hours. I don't think anyone making a
living with this stuff would let you take a TBC home, :) but you might
be able to talk them into the effort there on site. If you have a
friend at a local station, your best bet likely might be to get some
time there to dub your tape and even do some editing with their
equipment.

--Michael

Quoting Mark Conner <mconner1@...>:

> Hi Mike,
>
> Thanks for the tip about contacting a video production company. Dunno if
> they'd loan/rent one out for a while, but the worst they can say is no. I
> have a passing ham acquaintance who's a tech at a local TV station, so I
> might see if that angle will work.
>
> - Mark
>
> On Thu, Feb 4, 2010 at 16:22, <mw@omsrc.com> wrote:
>
>>
>>
>>
>> You can look at some of the long-standing video production houses in
>> your area for use of their TBC. Local news stations that have been
>> around a while and companies specializing in making of commercials may
>> still have these. In the past decade, most video has gone digital, so
>> TBCs are not used as much, but a lot of older video material is still
>> on tape.
>>
>>
>

6438. LORAN-C General Information - USCG Navigation Center

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-08 20:00:56 UTC
From: Mike Manes
Topic: 6438 Message: 6438

The mid-continent range of the LORAN-C system is going QRT about
12 minutes from now. I'm monitoring 100 KHz as we speak; hearing
good signals at S8 on my IC-735 and G5RV.

http://www.navcen.uscg.gov/loran/default.htm

EOSS flew a LORAN-C onboard APRS reporting beacon payload
on several flights in the early '90's, and it did work fairly
well once it managed to get a 3-station lock - which was
a "sometimes" thing. It got mothballed after we got our
first GPS, a huge Magellan power-hog of a board that was
almost as picky as LORAN-C in getting a lock before launch.
But that was then - and that's a good thing.

A few LORAN-C stations in the N Pacific and NE US-CN coast will
remain operational until this October. I wonder what that spectrum
will be used for afterwards - any ideas?

Well, it's now 1952Z on 8 Feb 10, and 100 KHz just went quiet.
Hasta la vista, old friend.

73 de Mike W5VSI
CTO EOSS

6439. US gov's emptying of vast Texan h elium-tank dome 'wrong' • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-10 00:48:51 UTC
From: Mike Manes
Topic: 6439 Message: 6439

Hydrogen, anyone?

http://www.theregister.co.uk/2010/02/05/helium_dome_forever/

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6440. Launch Announcement: BallastHalo 4 - Pinhole Floater + Ballast Tank test 15:00UTC 13/2/10, UK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-10 16:10:09 UTC
From: James Coxon
Topic: 6440 Message: 6440

Hi all,
Launch announcement about the upcoming launch of BallastHalo 4, the 4th launch in a series to test ballast tanks and pumps in anticipation of a trans-atlantic attempt (AtlanticHalo - http://spacenear.us/wiki/).

Launch Date: 13/2/10
Launch Time: 15:00UTC
Launch Site: EARS, Cambridgeshire, UK (52.2511, -0.0927)
Payload: ATmega328 with Arduino bootloader on custom PCB, Radiometrix NTX2 10mW 434.075Mhz radio, Lassen IQ radio, 3x DS18B20 Temp Sensors, Photocell, Williamson peristaltic pump and 500ml ballast tank (ballast = ethanol/methanol)
Balloon: 1500g He, pinhole (1.5mm) vent -> aim for float @ ~20km altitude

You can track the flight: http://spacenear.us/tracker with conversation on #highaltitude on irc.freenode.net

Currently looking for additional listening stations in S. England and N. France as potentially the payload could cross the channel, please get in contact if you can help out - all that is required is a 70cm SSB capable radio and a computer to decode. Telemetry can be automatically decoded and uploaded using dl-fldigi (http://code.google.com/p/dl-fldigi/)

For more info see:
http://www.pegasushabproject.org.uk/wiki/doku.php/missions:ballasthalo:ballasthalo4

James
M6JCX
http://www.pegasushabproject.org.uk

6441. Airgas Rejects Air Products’ $5B Buyout Offer

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-11 04:04:21 UTC
From: Mike Manes
Topic: 6441 Message: 6441

http://www.manufacturing.net/article.aspx?id=240760
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6442. Re: [EOSS_Private] Airgas Rejects Air Products’ $5B Buyout Offer

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-11 04:18:50 UTC
From: KC0UUO@comcast.net
Topic: 6441 Message: 6442

Nice.
The folks at the Vasquez shop that I spoke to were getting a little nervous. But my understanding is that they are still having cash flow issues.

Sent via BlackBerry

-----Original Message-----
From: Mike Manes <mrmanes@gmail.com>
Date: Wed, 10 Feb 2010 21:04:21
To: gpsl<gpsl@yahoogroups.com>
Subject: [EOSS_Private] Airgas Rejects Air Products’ $5B Buyout Offer

http://www.manufacturing.net/article.aspx?id=240760
--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

6443. 2/13 HAB Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-13 23:31:38 UTC
From: Pete Lilja
Topic: 6443 Message: 6443

I assisted W0GRB today with a HAB flight. It went off with nary a hitch (except one little glitch when he bumped the knob on his D7 and changed his call sign to X0GRB rather than W0GRB). The balloon hit 97,000' and change and we made an easy recovery off a very snowy cornfield near Independence, Iowa.

I had read over the last couple of years that these latex balloons are visible while at altitude. I never really believed it. Today, however, was a bright sunny day and at one crossroads where we stopped to figure a route to touchdown we took the time to look as the balloon was nearly directly above us at 97,000' +. We were actually able to see it! Some with younger eyes than mine saw it unaided and I was able to pick it out with binoculars! I am still surprised by that. One of our group, Larry, KC0KTV, was looking at it and it disappeared. I checked the radio and sure enough, it had burst. Larry essentially saw the balloon burst!

A very good day for the guys of http://nixhab.com/

Pete
KC0GPB

6444. Re: [Balloon_Sked] 2/13 HAB Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-14 01:13:06 UTC
From: Mark Caviezel
Topic: 6443 Message: 6444

Pete:
Glad to hear about the flight and your first experience seeing a balloon at altitude.
I've seen dozens of latex balloons naked eye up over 90k feet. It helps if you conduct the chase so that the sun is at your back.

My 24' black solar tetroons are not only visible, they are obvious (well, sorta) late in the day when at their ~54k feet MSL cruising altitude.

best

- Mark ng0x

--- On Sat, 2/13/10, Pete Lilja <plilja@cfu.net> wrote:

From: Pete Lilja <plilja@...>
Subject: [Balloon_Sked] 2/13 HAB Flight
To: "gpsl" <GPSL@yahoogroups.com>, "balloon_sked" <balloon_sked@yahoogroups.com>
Date: Saturday, February 13, 2010, 6:31 PM

I assisted W0GRB today with a HAB flight. It went off with nary a hitch (except one little glitch when he bumped the knob on his D7 and changed his call sign to X0GRB rather than W0GRB). The balloon hit 97,000' and change and we made an easy recovery off a very snowy cornfield near Independence, Iowa.

I had read over the last couple of years that these latex balloons are visible while at altitude. I never really believed it. Today, however, was a bright sunny day and at one crossroads where we stopped to figure a route to touchdown we took the time to look as the balloon was nearly directly above us at 97,000' +. We were actually able to see it! Some with younger eyes than mine saw it unaided and I was able to pick it out with binoculars! I am still surprised by that. One of our group, Larry, KC0KTV, was looking at it and it disappeared. I checked the radio and sure enough, it had burst. Larry essentially saw the balloon burst!

A very good day for the guys of http://nixhab. com/

Pete
KC0GPB

6445. Re: [Balloon_Sked] 2/13 HAB Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-14 14:02:05 UTC
From: Idle-Tyme
Topic: 6443 Message: 6445

Whatever

Lynn W. Deffenbaugh (Mr) wrote:
>
>
> For anyone interested, I've plotted the APRS Infrastructure usage of
> X0GRB-11 and have posted it at:
>
> http://ldeffenb.dnsalias.net.nyud.net/Tracking/Balloons/X0GRB-11*
>
> Lynn (D) - KJ4ERJ - APRS-IS Infrastructure Visualization
>
> Pete Lilja wrote:
>> I assisted W0GRB today with a HAB flight. It went off with nary a
>> hitch (except one little glitch when he bumped the knob on his D7 and
>> changed his call sign to X0GRB rather than W0GRB). The balloon hit
>> 97,000' and change and we made an easy recovery off a very snowy
>> cornfield near Independence, Iowa.
>>
>> I had read over the last couple of years that these latex balloons
>> are visible while at altitude. I never really believed it. Today,
>> however, was a bright sunny day and at one crossroads where we
>> stopped to figure a route to touchdown we took the time to look as
>> the balloon was nearly directly above us at 97,000' +. We were
>> actually able to see it! Some with younger eyes than mine saw it
>> unaided and I was able to pick it out with binoculars! I am still
>> surprised by that. One of our group, Larry, KC0KTV, was looking at
>> it and it disappeared. I checked the radio and sure enough, it had
>> burst. Larry essentially saw the balloon burst!
>>
>> A very good day for the guys of http://nixhab.com/
>>
>> Pete
>> KC0GPB
>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.733 / Virus Database: 271.1.1/2687 - Release Date: 02/14/10 01:35:00
>

>

6446. GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 01:42:16 UTC
From: Zack Clobes
Topic: 6446 Message: 6446

I'm now taking volunteers and requests for sessions at the 2010 GPSL in Hutchinson. If you are interested in presenting, please include the following in your response:

1. Topic (5 words or less)

2. Short description of your presentation (2 sentences or more)

3. How much time do you expect the presentation and related questions to take?

4. Do you have a preference of when you present?

5. What resources will you need for your program (projector, computer, DVD, tables, etc)?

6. A cell phone number for the presenter for questions or coordination.

If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

Zack Clobes, W0ZC
Project: Traveler

6447. Hotel preferences for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 01:44:00 UTC
From: Zack Clobes
Topic: 6447 Message: 6447

For those of you involved in the earlier discussions about hotels in Hutch, was there any consensus? I want to get the website updates with the "official" hotel, and quite honestly, you people are more of an expert on Hutchinson hotels than I am.

Have any of you already made reservations?

Zack Clobes, W0ZC
Project: Traveler

6448. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 18:48:15 UTC
From: L. Paul Verhage
Topic: 6446 Message: 6448

Title: Cosmic Rays
Description: I'll talk about my current cosmic ray and Geiger counter
experience.
Give me 30 minues
I have no preferred time
I would need a projectpr/laptop and a table
(785) 230-6866

Paul

On Sun, Feb 14, 2010 at 7:42 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I'm now taking volunteers and requests for sessions at the 2010 GPSL in
> Hutchinson. If you are interested in presenting, please include the
> following in your response:
>
> 1. Topic (5 words or less)
>
> 2. Short description of your presentation (2 sentences or more)
>
> 3. How much time do you expect the presentation and related questions to
> take?
>
> 4. Do you have a preference of when you present?
>
> 5. What resources will you need for your program (projector, computer, DVD,
>
> tables, etc)?
>
> 6. A cell phone number for the presenter for questions or coordination.
>
>
>
> If you are not interested in presenting, but would like to see someone
> else speak on a specific topic, I'd be interested in hearing your
> suggestions.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>

--
Onwards and Upwards,
Paul

6449. Balloon camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 19:58:36 UTC
From: Mark Conner
Topic: 6449 Message: 6449

http://www.officemax.com/catalog/sku.jsp?productId=prod1910035

http://store.kodak.com/store/ekconsus/en_US/pd/Zi6_Pocket_Video_Camera/productID.145116700

This camera is on sale at half price at OfficeMax ($80). It uses 2 AA batteries rather than an internal Li-ion, so it can be powered by Energizer L91s. My wife has the next step up (Zi8) and we get good results with it.

This will shoot 720p video at 60 fps, which might be good for taking some of the motion blur out. I have not yet tested our Zi8 to see if it will shoot 2+ hours of video at one time but imagine it will. The Kodak Zi6 rates pretty favorably compared to the Flip cameras and this is a very good price on it. I will likely be picking one up myself - even if it doesn't work as a balloon camera for some reason it is great for more conventional uses.

73 de Mark N9XTN

6450. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 20:44:26 UTC
From: Jeff Dailey
Topic: 6446 Message: 6450

From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sun, February 14, 2010 8:42:16 PM
Subject: [GPSL] GPSL Call for Presenters

Topic: High Resolution Balloon Borne Spectrometer

Descrition: This instrument is for understanding atmospheric chemistry, it is a CCD optical spectrometer with multi wavelengths. It is a solar occultation instrument that will measure the trace constituents of the atmosphere by measuring the absorption of sunlight. It requires a sun tracker on a stabilized platform. The instrument measures the amount of H2O, O3, CO2, CO, CH4, N2O.

Time: 45 minutes

Preference: None

Resources: Projector

Cell: 260 241 0409

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

I'm now taking volunteers and requests for sessions at the 2010 GPSL in Hutchinson. If you are interested in presenting, please include the following in your response:

1. Topic (5 words or less)

2. Short description of your presentation (2 sentences or more)

3. How much time do you expect the presentation and related questions to take?

4. Do you have a preference of when you present?

5. What resources will you need for your program (projector, computer, DVD, tables, etc)?

6. A cell phone number for the presenter for questions or coordination.

If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

Zack Clobes, W0ZC
Project: Traveler

6451. Balloon Visibility

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 21:07:51 UTC
From: Pete Lilja
Topic: 6451 Message: 6451

I mentioned to my brothers our having seen our last balloon at 97,000'. I didn't see it unaided but others reported that they did. My shooting enthusiast brother responded with this:
*
I did a little multiplying and dividing and determined that seeing a 28' diameter balloon at 100,000' is the same as seeing a one tenth of an inch diameter hole at 100 yards. I used that because I know it isn't possible for almost anyone to see a .22 caliber bullet hole at 100 yards unaided. And a .22 hole is over twice as large in area as a .1" dia. hole.*

My only explanation is that the uncolored latex being illuminated by bright sunshine gives enough contrast to make it visible.

What are the thoughts of the HABists on these lists?

Pete
KC0GPB

6452. Re: [GPSL] Balloon Visibility

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 21:20:14 UTC
From: Zack Clobes
Topic: 6451 Message: 6452

I consider myself to have pretty good (corrected) vision, and I can't reliably see a .22 at 25 yards.

However, I have seen a couple of balloon "stars" with the naked eye. I did watch a burst and I don't remember for sure, but I think it was through an SLR zoom lens or maybe a (weak) binocular. What I remember was seeing a white dot, and then very suddenly the dot became blurry, and then disappeared. The whole thing probably happened inside of a second or maybe two, but it was definitely visible.

Here's a couple of notes that I made about our 2003b flight:

- While watching the balloon from the ground, it appeared that the balloon was moving erratically, especially in the wrong direction. We finally decided that perceived motion at that range (85,000'+, directly above us) is not necessarily accurate. Initially, it appeared to be moving in the opposite direct that it really was, and later it appeared to be moving in short jerky movements. I think cloud movement, as faint as they may be, will inhibit much of any ability to determine direction of flight.
- If we intend to watch the balloon from the ground, especially in groups, some sort of tripod should be set up for the binoculars/monoculars. It took quite a while to find the balloon in the binoculars, and it was very difficult to try to hold them steady.

On Mon, Feb 15, 2010 at 3:07 PM, Pete Lilja <plilja@...t> wrote:

>
>
> I mentioned to my brothers our having seen our last balloon at 97,000'. I
> didn't see it unaided but others reported that they did. My shooting
> enthusiast brother responded with this:
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> I did a little multiplying and dividing and determined that seeing a 28'
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> diameter hole at 100 yards. I used that because I know it isn't possible
> for almost anyone to see a .22 caliber bullet hole at 100 yards unaided. And
> a .22 hole is over twice as large in area as a .1" dia. hole.*
>
> My only explanation is that the uncolored latex being illuminated by bright
> sunshine gives enough contrast to make it visible.
>
> What are the thoughts of the HABists on these lists?
>
> Pete
> KC0GPB
>

>

6453. Re: [GPSL] Balloon Visibility

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 21:22:16 UTC
From: Idle-Tyme
Topic: 6451 Message: 6453
Attachments: 1 described; binary payloads are missing from this source WARC

This is simple,

To your eye it is a point light source.

Ask him if he has ever seen a star?

There is something that is a thousand times smaller than that angle of
resolution the balloon provided you. yet you can see thousands of stars.
Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Pete Lilja wrote:
>
>
> I mentioned to my brothers our having seen our last balloon at
> 97,000'. I didn't see it unaided but others reported that they did.
> My shooting enthusiast brother responded with this:
> /
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> Pete
> KC0GPB
>
>
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> ---
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.733 / Virus Database: 271.1.1/2689 - Release Date: 02/15/10 01:35:00

>
>

6454. Re: [Balloon_Sked] Re: [GPSL] Balloon Visibility

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 21:45:13 UTC
From: Pete Lilja
Topic: 6451 Message: 6454
Attachments: 1 described; binary payloads are missing from this source WARC

I agree, Joe. Thanks for the simple answer / response.

This is another example of people seeing the world from their own particular viewpoint. While the math involved is an interesting comparison is size - to me (from my perspective / viewpoint!) this exercise is more telling of how different people view the world by using their own experiences. My education is social science rather than hard science. My brothers' perspectives are more earthly than stellar science. We all see things from a different vantage.

See how much fun HABing can be! It encompasses everything!

Pete

On Mon, Feb 15, 2010 at 3:22 PM, Idle-Tyme <nss@...> wrote:

> This is simple,
>
> To your eye it is a point light source.
>
> Ask him if he has ever seen a star?
>
> There is something that is a thousand times smaller than that angle of
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>

6455. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-15 22:21:15 UTC
From: mw@omsrc.com
Topic: 6446 Message: 6455

Topic: "ARBONET: Progress of Experiments in Communications and Control"

Description: The two cowboys from North Texas share the status and history of the positive pressure control system for balloon altitude optimization and controlled return, including various payload electronics such as customized cross-band repeater, linear transponder, slow scan TV, mechanical implementations, results and data collected.

Time: Up to 1 hour depending on who is still awake (including the two presenters).

Preferred Time: No preferred time.

Resources: Table / Projector / Laptop / Coffee

Michael Willett: 817-776-5420 office / 214-578-2400 cell
Doug Loughmiller: 214-455-7071

Quoting Zack Clobes <zclobes@...>:

> I'm now taking volunteers and requests for sessions at the 2010 GPSL in
> Hutchinson. If you are interested in presenting, please include the
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> If you are not interested in presenting, but would like to see someone
> else speak on a specific topic, I'd be interested in hearing your
> suggestions.
>
> Zack Clobes, W0ZC
> Project: Traveler

>

6456. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 17:44:04 UTC
From: Dominick Marrone
Topic: 6449 Message: 6456

Mark Conner,

Doesn't the video camera require stabilized ARHAB satellite orientation otherwise, camera/video will record 2-hours of constant spin and sway?

Q: What methods do you or GPSL use to stabilize the balloon satellite from rotation and/or pendulum swing?
i.e. Passive magnetic (in-line with N-S poles), active torque coils, mechanical absorbers: springs, boom, etc.?

Q: What type of orientation sensors (MFR/part number) do you use to establish a given orientation of ARHAB satellite?
Sun sensor, earth horizon sensor, other?

Once the ARHAB satellite rotation and pendulum swing is stabilized:
Q: What combination of: orientation sensor or other method do you use with uP controlled servos to actually point video camera at various earth or space targets?

Q: Do you or GPSL group have any literature/white papers on the subject of ARHAB satellite stabilization and attitude control methods?

Dominick Marrone, KC2PXA
GPSL group member

--- On Mon, 2/15/10, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: [GPSL] Balloon camera
To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com>
Date: Monday, February 15, 2010, 2:58 PM

http://www.officema x.com/catalog/ sku.jsp?productI d=prod1910035

http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_ Video_Camera/ productID. 145116700

This camera is on sale at half price at OfficeMax ($80). It uses 2 AA batteries rather than an internal Li-ion, so it can be powered by Energizer L91s. My wife has the next step up (Zi8) and we get good results with it.

This will shoot 720p video at 60 fps, which might be good for taking some of the motion blur out. I have not yet tested our Zi8 to see if it will shoot 2+ hours of video at one time but imagine it will. The Kodak Zi6 rates pretty favorably compared to the Flip cameras and this is a very good price on it. I will likely be picking one up myself - even if it doesn't work as a balloon camera for some reason it is great for more conventional uses.

73 de Mark N9XTN

6457. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 20:02:23 UTC
From: Mark Conner
Topic: 6449 Message: 6457

The camera doesn't require stabilization to get decent video, though it would improve things considerably. I have quite a bit of video with vomit-inducing rotation, but also a lot with relatively gentle yaw rates. Things normally settle down during ascent pretty well after the initial launch chaos. Descent, OTOH.....

A while back I took a (brief) look at what could be done to stabilize a camera for a balloon flight. One approach would be to use an IR horizon sensor like those used for autopilots on R/C aircraft. This could give you what's necessary to keep the camera level to the horizon. Processing the data quickly enough to avoid hysteresis might be fun, but apparently it is possible. http://www.fmadirect.com/detail.htm?item=1489§ion=20

Once level, azimuth/elevation commanding could be done - azimuth would likely require an electronic compass to determine. An IMU good enough to go two hours without drift might be out of budget.

73 de Mark N9XTN

On Tue, Feb 16, 2010 at 11:44, Dominick Marrone <dmarroneny@...>wrote:

>
>
> Mark Conner,
>
> Doesn't the video camera require stabilized ARHAB satellite orientation
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> *Q:* What type of orientation sensors (MFR/part number) do you use to
> establish a given orientation of ARHAB satellite?
> Sun sensor, earth horizon sensor, other?
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> Once the ARHAB satellite rotation and pendulum swing is stabilized:
> *Q:* What combination of: orientation sensor or other method do you
> use with uP controlled servos to actually point video camera at various
> earth or space targets?
>
> *Q:* Do you or GPSL group have any literature/white papers on the subject
> of ARHAB satellite stabilization and attitude control methods?
>
> Dominick Marrone, KC2PXA

> GPSL group member
>
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> --- On *Mon, 2/15/10, Mark Conner <mconner1@...>* wrote:
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> Subject: [GPSL] Balloon camera
> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com>
> Date: Monday, February 15, 2010, 2:58 PM
> http://www.officema x.com/catalog/ sku.jsp?productI
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> http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_
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> 73 de Mark N9XTN
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6458. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 20:13:07 UTC
From: Zack Clobes
Topic: 6449 Message: 6458

EOSS used an electronic compass as I recall, commanding a motor or servo. I don't know if the compass was tilt-compensated or not. Mike?

Some applications definitely need to be looking a specific direction. And for that, I don't feel that a simple IMU could withstand the rapid spinning and turbulence. However, if you JUST want to stabilize the video, I'd consider using a simple single-axis yaw rate gyro to drive a motor.

With a single rate gyro, your direction would gradually change over time, but I think it would be sufficient to eliminate the need for a Sick-Sack. This would have the advantage that throughout the flight, you would get different views.

Zack Clobes, W0ZC
Project: Traveler

On Tue, Feb 16, 2010 at 2:02 PM, Mark Conner <mconner1@...> wrote:

>
>
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6459. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 21:46:42 UTC
From: Idle-Tyme
Topic: 6449 Message: 6459
Attachments: 1 described; binary payloads are missing from this source WARC

We at Near Space Sciences go the KISS route, check it out.

http://www.youtube.com/watch?v=vsH7tXvdbKU

Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Mark Conner wrote:
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6460. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 23:07:53 UTC
From: Pete Lilja
Topic: 6449 Message: 6460
Attachments: 1 described; binary payloads are missing from this source WARC

I'm missing something, Joe. How was that stability achieved?

Pete, KC0GPB

On Tue, Feb 16, 2010 at 3:46 PM, Idle-Tyme <nss@...> wrote:

> We at Near Space Sciences go the KISS route, check it out.
>
> http://www.youtube.com/watch?v=vsH7tXvdbKU
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>> Mark Conner,
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>> Doesn't the video camera require stabilized ARHAB satellite orientation
>> otherwise, camera/video will record 2-hours of constant spin and sway?
>>
>> *Q:* What methods do you or GPSL use to stabilize the balloon satellite
>> from rotation and/or pendulum swing?
>> i.e. Passive magnetic (in-line with N-S poles), active torque coils,
>> mechanical absorbers: springs, boom, etc.?
>>
>> *Q:* What type of orientation sensors (MFR/part number) do you use to
>> establish a given orientation of ARHAB satellite?
>> Sun sensor, earth horizon sensor, other?
>>
>> Once the ARHAB satellite rotation and pendulum swing is stabilized:
>> *Q:* What combination of: orientation sensor or other method do you
>> use with uP controlled servos to actually point video camera at various
>> earth or space targets?
>>
>> *Q:* Do you or GPSL group have any literature/white papers on the subject
>> of ARHAB satellite stabilization and attitude control methods?
>>
>> Dominick Marrone, KC2PXA
>> GPSL group member
>>
>>
>> --- On *Mon, 2/15/10, Mark Conner <mconner1@...>* wrote:
>>
>> From: Mark Conner <mconner1@...>
>> Subject: [GPSL] Balloon camera
>> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com
>> >
>> Date: Monday, February 15, 2010, 2:58 PM
>> http://www.officema x.com/catalog/ sku.jsp?productI
d=prod1910035<http://www.officemax.com/catalog/sku.jsp?productId=prod1910035>
>>
>> http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_
>> Video_Camera/ productID. 145116700<http://store.kodak.com/store/ekconsus/en_US/pd/Zi6_P
ocket_Video_Camera/productID.145116700>
>>
>> This camera is on sale at half price at OfficeMax ($80). It uses 2 AA
>> batteries rather than an internal Li-ion, so it can be powered by Energizer
>> L91s. My wife has the next step up (Zi8) and we get good results with it.
>>
>> This will shoot 720p video at 60 fps, which might be good for taking some
>> of the motion blur out. I have not yet tested our Zi8 to see if it will
>> shoot 2+ hours of video at one time but imagine it will. The Kodak Zi6 rates
>> pretty favorably compared to the Flip cameras and this is a very good price
>> on it. I will likely be picking one up myself - even if it doesn't work as
>> a balloon camera for some reason it is great for more conventional uses.
>>
>> 73 de Mark N9XTN

>>
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>>
>>
> ------------------------------
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.733 / Virus Database: 271.1.1/2691 - Release Date: 02/16/10 01:35:00
>
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6461. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 23:21:03 UTC
From: Idle-Tyme
Topic: 6449 Message: 6461
Attachments: 2 described; binary payloads are missing from this source WARC

Did you watch the Video?

Joe

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Pete Lilja wrote:
>
>
> I'm missing something, Joe. How was that stability achieved?
>
> Pete, KC0GPB
>
> On Tue, Feb 16, 2010 at 3:46 PM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
> We at Near Space Sciences go the KISS route, check it out.
>
> http://www.youtube.com/watch?v=vsH7tXvdbKU
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> Joe WB9SBD
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>
>
> Mark Conner wrote:
>> The camera doesn't require stabilization to get decent video,
>> though it would improve things considerably. I have quite a bit
>> of video with vomit-inducing rotation, but also a lot with
>> relatively gentle yaw rates. Things normally settle down during
>> ascent pretty well after the initial launch chaos. Descent,
>> OTOH.......
>>
>> A while back I took a (brief) look at what could be done to
>> stabilize a camera for a balloon flight. One approach would be
>> to use an IR horizon sensor like those used for autopilots on R/C
>> aircraft. This could give you what's necessary to keep the
>> camera level to the horizon. Processing the data quickly enough
>> to avoid hysteresis might be fun, but apparently it is possible.
>> http://www.fmadirect.com/detail.htm?item=1489§ion=20

>> <http://www.fmadirect.com/detail.htm?item=1489§ion=20>
>>
>> Once level, azimuth/elevation commanding could be done - azimuth
>> would likely require an electronic compass to determine. An IMU
>> good enough to go two hours without drift might be out of budget.
>>
>> 73 de Mark N9XTN
>>
>> On Tue, Feb 16, 2010 at 11:44, Dominick Marrone
>> <dmarroneny@... <mailto:dmarroneny@...>> wrote:
>>
>>
>>
>> Mark Conner,
>>
>> Doesn't the video camera require stabilized ARHAB satellite
>> orientation otherwise, camera/video will record 2-hours of
>> constant spin and sway?
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>> *Q:* What methods do you or GPSL use to stabilize the balloon
>> satellite from rotation and/or pendulum swing?
>> i.e. Passive magnetic (in-line with N-S poles), active torque
>> coils, mechanical absorbers: springs, boom, etc.?
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>> *Q:* What type of orientation sensors (MFR/part number) do
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>> Sun sensor, earth horizon sensor, other?
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>> Once the ARHAB satellite rotation and pendulum swing is
>> stabilized:
>> *Q:* What combination of: orientation sensor or other method
>> do you use with uP controlled servos to actually point video
>> camera at various earth or space targets?
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>> *Q:* Do you or GPSL group have any literature/white papers on
>> the subject of ARHAB satellite stabilization and attitude
>> control methods?
>>
>> Dominick Marrone, KC2PXA
>> GPSL group member
>>
>>
>> --- On *Mon, 2/15/10, Mark Conner /<mconner1@...
>> <mailto:mconner1@...>>/* wrote:
>>
>> From: Mark Conner <mconner1@...
>> <mailto:mconner1@...>>
>> Subject: [GPSL] Balloon camera
>> To: "KNSP List" <KNSP@yahoogroups.com
>> <mailto:KNSP@yahoogroups.com>>, "GPSL list"

>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>> Date: Monday, February 15, 2010, 2:58 PM
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>> <http://www.officemax.com/catalog/sku.jsp?productId=prod1910035>
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>> http://store. kodak.com/ store/ekconsus/ en_US/pd/
>> Zi6_Pocket_ Video_Camera/ productID. 145116700
>> <http://store.kodak.com/store/ekconsus/en_US/pd/Zi6_Pocket_Video_Camera/productID.14511
6700>
>>
>> This camera is on sale at half price at OfficeMax ($80). It
>> uses 2 AA batteries rather than an internal Li-ion, so it can
>> be powered by Energizer L91s. My wife has the next step up
>> (Zi8) and we get good results with it.
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>> This will shoot 720p video at 60 fps, which might be good for
>> taking some of the motion blur out. I have not yet tested
>> our Zi8 to see if it will shoot 2+ hours of video at one time
>> but imagine it will. The Kodak Zi6 rates pretty favorably
>> compared to the Flip cameras and this is a very good price on
>> it. I will likely be picking one up myself - even if it
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>

>

6462. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 23:40:55 UTC
From: Pete Lilja
Topic: 6449 Message: 6462
Attachments: 1 described; binary payloads are missing from this source WARC

Yep. Are you saying the simplicity is the amazingly calm winds?

On Tue, Feb 16, 2010 at 3:46 PM, Idle-Tyme <nss@...> wrote:

> We at Near Space Sciences go the KISS route, check it out.
>
> http://www.youtube.com/watch?v=vsH7tXvdbKU
>
> Joe WB9SBD
> Near Space Sciences
>
> *The Original Rolling Ball Clock
> Idle-Tyme.com
> *
>
>
> Mark Conner wrote:
>
> The camera doesn't require stabilization to get decent video, though it
> would improve things considerably. I have quite a bit of video with
> vomit-inducing rotation, but also a lot with relatively gentle yaw rates.
> Things normally settle down during ascent pretty well after the initial
> launch chaos. Descent, OTOH.......
>
> A while back I took a (brief) look at what could be done to stabilize a
> camera for a balloon flight. One approach would be to use an IR horizon
> sensor like those used for autopilots on R/C aircraft. This could give you
> what's necessary to keep the camera level to the horizon. Processing the
> data quickly enough to avoid hysteresis might be fun, but apparently it is
> possible. http://www.fmadirect.com/detail.htm?item=1489§ion=20
>
> Once level, azimuth/elevation commanding could be done - azimuth would
> likely require an electronic compass to determine. An IMU good enough to go
> two hours without drift might be out of budget.
>
> 73 de Mark N9XTN
>
> On Tue, Feb 16, 2010 at 11:44, Dominick Marrone <dmarroneny@...>wrote:
>
>>
>>
>> Mark Conner,
>>
>> Doesn't the video camera require stabilized ARHAB satellite orientation

>> otherwise, camera/video will record 2-hours of constant spin and sway?
>>
>> *Q:* What methods do you or GPSL use to stabilize the balloon satellite
>> from rotation and/or pendulum swing?
>> i.e. Passive magnetic (in-line with N-S poles), active torque coils,
>> mechanical absorbers: springs, boom, etc.?
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>> *Q:* What type of orientation sensors (MFR/part number) do you use to
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>> Once the ARHAB satellite rotation and pendulum swing is stabilized:
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>> *Q:* Do you or GPSL group have any literature/white papers on the subject
>> of ARHAB satellite stabilization and attitude control methods?
>>
>> Dominick Marrone, KC2PXA
>> GPSL group member
>>
>>
>> --- On *Mon, 2/15/10, Mark Conner <mconner1@...>* wrote:
>>
>> From: Mark Conner <mconner1@...>
>> Subject: [GPSL] Balloon camera
>> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com
>> >
>> Date: Monday, February 15, 2010, 2:58 PM
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d=prod1910035<http://www.officemax.com/catalog/sku.jsp?productId=prod1910035>
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>> http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_
>> Video_Camera/ productID. 145116700<http://store.kodak.com/store/ekconsus/en_US/pd/Zi6_P
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>> This camera is on sale at half price at OfficeMax ($80). It uses 2 AA
>> batteries rather than an internal Li-ion, so it can be powered by Energizer
>> L91s. My wife has the next step up (Zi8) and we get good results with it.
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>> This will shoot 720p video at 60 fps, which might be good for taking some
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>> shoot 2+ hours of video at one time but imagine it will. The Kodak Zi6 rates
>> pretty favorably compared to the Flip cameras and this is a very good price
>> on it. I will likely be picking one up myself - even if it doesn't work as
>> a balloon camera for some reason it is great for more conventional uses.
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>>

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>

6463. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-16 23:52:27 UTC
From: Idle-Tyme
Topic: 6449 Message: 6463
Attachments: 2 described; binary payloads are missing from this source WARC

OOps,,

sorry,

Wow I can't seem to find the video that showed the outside of the
payload, grrrr. I thought that was it. but that did show the
stability nicely from the payloads point of view.

How we did it is in this un finished page of the story for that flight.
it's at,

http://www.qsl.net/wb9sbd/nss-45.html

Sorry,,

Joe WB9SBD
Near Space Sciences

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Pete Lilja wrote:
>
>
> Yep. Are you saying the simplicity is the amazingly calm winds?
>
> On Tue, Feb 16, 2010 at 3:46 PM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
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>> of video with vomit-inducing rotation, but also a lot with

>> relatively gentle yaw rates. Things normally settle down during
>> ascent pretty well after the initial launch chaos. Descent,
>> OTOH.......
>>
>> A while back I took a (brief) look at what could be done to
>> stabilize a camera for a balloon flight. One approach would be
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>> to avoid hysteresis might be fun, but apparently it is possible.
>> http://www.fmadirect.com/detail.htm?item=1489§ion=20
>> <http://www.fmadirect.com/detail.htm?item=1489§ion=20>
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>> Once level, azimuth/elevation commanding could be done - azimuth
>> would likely require an electronic compass to determine. An IMU
>> good enough to go two hours without drift might be out of budget.
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>> 73 de Mark N9XTN
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>> On Tue, Feb 16, 2010 at 11:44, Dominick Marrone
>> <dmarroneny@... <mailto:dmarroneny@...>> wrote:
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>>
>>
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>> camera at various earth or space targets?
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>> *Q:* Do you or GPSL group have any literature/white papers on
>> the subject of ARHAB satellite stabilization and attitude
>> control methods?
>>
>> Dominick Marrone, KC2PXA

>> GPSL group member
>>
>>
>> --- On *Mon, 2/15/10, Mark Conner /<mconner1@...
>> <mailto:mconner1@...>>/* wrote:
>>
>> From: Mark Conner <mconner1@...
>> <mailto:mconner1@...>>
>> Subject: [GPSL] Balloon camera
>> To: "KNSP List" <KNSP@yahoogroups.com
>> <mailto:KNSP@yahoogroups.com>>, "GPSL list"
>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>> Date: Monday, February 15, 2010, 2:58 PM
>> http://www.officema x.com/catalog/ sku.jsp?productI
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>> <http://www.officemax.com/catalog/sku.jsp?productId=prod1910035>
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>> Zi6_Pocket_ Video_Camera/ productID. 145116700
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6700>
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>

6464. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-17 00:17:22 UTC
From: Pete Lilja
Topic: 6449 Message: 6464
Attachments: 2 described; binary payloads are missing from this source WARC

Whew! I'm glad I wasn't missing something really obvious!

Calm winds are about as simple as possible...

Pete

On Tue, Feb 16, 2010 at 5:52 PM, Idle-Tyme <nss@...> wrote:

> OOps,,
>
> sorry,
>
> Wow I can't seem to find the video that showed the outside of the payload,
> grrrr. I thought that was it. but that did show the stability nicely from
> the payloads point of view.
>
> How we did it is in this un finished page of the story for that flight.
> it's at,
>
> http://www.qsl.net/wb9sbd/nss-45.html
>
> Sorry,,
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> Near Space Sciences
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>>> earth or space targets?
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>>> *Q:* Do you or GPSL group have any literature/white papers on the

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>>> Dominick Marrone, KC2PXA
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>>> --- On *Mon, 2/15/10, Mark Conner <mconner1@...>* wrote:
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>>> From: Mark Conner <mconner1@...>
>>> Subject: [GPSL] Balloon camera
>>> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <
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>>> 73 de Mark N9XTN
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>

6465. best method of camera stabilization.....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-17 13:26:51 UTC
From: Mark Caviezel
Topic: 6465 Message: 6465

..... is a floater balloon.

- Mark ng0x

6466. RE: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-17 14:16:16 UTC
From: Nick Hanks
Topic: 6446 Message: 6466

Hi Zack,

EOSS would like to provide a presentation at GPSL. Here□s the data you wanted.

1. Balloon Flight Ionizing Radiation Estimate

2. Introduction to ionizing radiation in the upper atmosphere and an estimate of the dose received by two biological payloads on EOSS-149 during 106 minute flight to 74k ft.

3. 30 minutes

4. No preference as to presentation order.

5. Power Point-equipped computer and projector & screen

6. (303) 870-2802

Our presenter is Jim Langsted, KCØRPS.

73,

Nick Hanks, NØLP

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Sunday, February 14, 2010 18:42
To: Group GPSL
Subject: [GPSL] GPSL Call for Presenters

I'm now taking volunteers and requests for sessions at the 2010 GPSL in Hutchinson. If you are interested in presenting, please include the following in your response:

1. Topic (5 words or less)

2. Short description of your presentation (2 sentences or more)

3. How much time do you expect the presentation and related questions to take?

4. Do you have a preference of when you present?

5. What resources will you need for your program (projector, computer, DVD, tables, etc)?

6. A cell phone number for the presenter for questions or coordination.

If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

Zack Clobes, W0ZC
Project: Traveler

6467. Re: [GPSL] best method of camera stabilization.....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-17 15:45:21 UTC
From: Idle-Tyme
Topic: 6465 Message: 6467
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark,
As in a giant PE type of balloon?
Joe WB9SBD Near Space Sciences

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Mark Caviezel wrote:
>
>
> ..... is a floater balloon.
>
> - Mark ng0x
>
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.733 / Virus Database: 271.1.1/2693 - Release Date: 02/17/10 01:35:00
>
>

6468. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-17 22:26:43 UTC
From: Mike Manes
Topic: 6449 Message: 6468

Hi Dominick,

EOSS's de-spun ATV payload uses a 2D electronic magnetic compass for
an azimuth reference, and a servo-driven camera platform, driving against
the inertia of the bulk of the payload mass to hold an ATV camera coarsely
aimed at a constant heading. It works pretty well eliminating the "mal
de mel" sensation felt by some when viewing unstabilized real-time TV.
Provisions for remote control of azimuth and elevation setpoints are
built in, but so far, we've not incorporated a remote control link.

See: http://www.eoss.org/hardware/spin_atv.htm

73 de Mike W5VSI
CTO EOSS

On 2/16/2010 10:44, Dominick Marrone wrote:
>
>
> Mark Conner,
> Doesn't the video camera require stabilized ARHAB satellite orientation
> otherwise, camera/video will record 2-hours of constant spin and sway?
> *Q:* What methods do you or GPSL use to stabilize the balloon satellite
> from rotation and/or pendulum swing?
> i.e. Passive magnetic (in-line with N-S poles), active torque coils,
> mechanical absorbers: springs, boom, etc.?
> *Q:* What type of orientation sensors (MFR/part number) do you use to
> establish a given orientation of ARHAB satellite?
> Sun sensor, earth horizon sensor, other?
> Once the ARHAB satellite rotation and pendulum swing is stabilized:
> *Q:* What combination of: orientation sensor or other method do you use
> with uP controlled servos to actually point video camera at various
> earth or space targets?
> *Q:* Do you or GPSL group have any literature/white papers on the
> subject of ARHAB satellite stabilization and attitude control methods?
> Dominick Marrone, KC2PXA
> GPSL group member
>
> --- On *Mon, 2/15/10, Mark Conner /<mconner1@...>/* wrote:
>
> From: Mark Conner <mconner1@...>
> Subject: [GPSL] Balloon camera
> To: "KNSP List" <KNSP@yahoogroups.com>, "GPSL list" <GPSL@yahoogroups.com>
> Date: Monday, February 15, 2010, 2:58 PM
> http://www.officema x.com/catalog/ sku.jsp?productI d=prod1910035
> <http://www.officemax.com/catalog/sku.jsp?productId=prod1910035>
>

> http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_
> Video_Camera/ productID. 145116700
> <http://store.kodak.com/store/ekconsus/en_US/pd/Zi6_Pocket_Video_Camera/productID.145116
700>
>
> This camera is on sale at half price at OfficeMax ($80). It uses 2 AA
> batteries rather than an internal Li-ion, so it can be powered by
> Energizer L91s. My wife has the next step up (Zi8) and we get good
> results with it.
>
> This will shoot 720p video at 60 fps, which might be good for taking
> some of the motion blur out. I have not yet tested our Zi8 to see if it
> will shoot 2+ hours of video at one time but imagine it will. The Kodak
> Zi6 rates pretty favorably compared to the Flip cameras and this is a
> very good price on it. I will likely be picking one up myself - even if
> it doesn't work as a balloon camera for some reason it is great for more
> conventional uses.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6469. Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-18 03:57:57 UTC
From: Dominick Marrone
Topic: 6449 Message: 6469

Mark Conner GPSL,

Thanks for sharing your ARHAB experiences, helpful links and video; it is much appreciated.

Dominick Marrone, KC2PXA
GPSL group member

--- On Tue, 2/16/10, Mark Conner <mconner1@...m> wrote:
From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] Balloon camera: Methods of ARHAB stabilization/orientation?
To: GPSL@yahoogroups.com
Date: Tuesday, February 16, 2010, 3:02 PM

The camera doesn't require stabilization to get decent video, though it would improve things considerably. I have quite a bit of video with vomit-inducing rotation, but also a lot with relatively gentle yaw rates. Things normally settle down during ascent pretty well after the initial launch chaos. Descent, OTOH.....

A while back I took a (brief) look at what could be done to stabilize a camera for a balloon flight. One approach would be to use an IR horizon sensor like those used for autopilots on R/C aircraft. This could give you what's necessary to keep the camera level to the horizon. Processing the data quickly enough to avoid hysteresis might be fun, but apparently it is possible. http://www.fmadirec t.com/detail. htm?item= 1489?ion=20

Once level, azimuth/elevation commanding could be done - azimuth would likely require an electronic compass to determine. An IMU good enough to go two hours without drift might be out of budget.

73 de Mark N9XTN

On Tue, Feb 16, 2010 at 11:44, Dominick Marrone <dmarroneny@yahoo. com> wrote:

Mark Conner,

Doesn't the video camera require stabilized ARHAB satellite orientation otherwise, camera/video will record 2-hours of constant spin and sway?

Q: What methods do you or GPSL use to stabilize the balloon satellite from rotation and/or pendulum swing?
i.e. Passive magnetic (in-line with N-S poles), active torque coils, mechanical absorbers: springs, boom, etc.?

Q: What type of orientation sensors (MFR/part number) do you use to establish a given orientation of ARHAB satellite?
Sun sensor, earth horizon sensor, other?

Once the ARHAB satellite rotation and pendulum swing is stabilized:
Q: What combination of: orientation sensor or other method do you use with uP controlled

servos to actually point video camera at various earth or space targets?

Q: Do you or GPSL group have any literature/white papers on the subject of ARHAB satellite stabilization and attitude control methods?

Dominick Marrone, KC2PXA
GPSL group member

--- On Mon, 2/15/10, Mark Conner <mconner1@gmail. com> wrote:

From: Mark Conner <mconner1@gmail. com>
Subject: [GPSL] Balloon camera
To: "KNSP List" <KNSP@yahoogroups. com>, "GPSL list" <GPSL@yahoogroups. com>
Date: Monday, February 15, 2010, 2:58 PM

http://www.officema x.com/catalog/ sku.jsp?productI d=prod1910035

http://store. kodak.com/ store/ekconsus/ en_US/pd/ Zi6_Pocket_ Video_Camera/ productID. 145116700

This camera is on sale at half price at OfficeMax ($80). It uses 2 AA batteries rather than an internal Li-ion, so it can be powered by Energizer L91s. My wife has the next step up (Zi8) and we get good results with it.

This will shoot 720p video at 60 fps, which might be good for taking some of the motion blur out. I have not yet tested our Zi8 to see if it will shoot 2+ hours of video at one time but imagine it will. The Kodak Zi6 rates pretty favorably compared to the Flip cameras and this is a very good price on it. I will likely be picking one up myself - even if it doesn't work as a balloon camera for some reason it is great for more conventional uses.

73 de Mark N9XTN

6470. floater balloon- stable platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-18 12:52:55 UTC
From: Mark Caviezel
Topic: 6470 Message: 6470

Joe:
A floater balloon does not have to be a giant PE (polyethylene) balloon. The UTARC 'Spirit of Knoxville' balloons were less than 1000 cubic feet, and not more difficult to launch than a 1500 gram latex balloon. I am getting some downlooking video from a floating balloon digitized and will soon be uploaded on to YouTube so that people can see just how moderate the balloon dynamics are at float.

best

- Mark ng0x

6471. Re: [GPSL] floater balloon- stable platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-18 17:23:59 UTC
From: Dan Bowen
Topic: 6470 Message: 6471

I'm looking forward to seeing the video, i'd assumed it would really only be turbulent as it was accelerated to 100+ mph upon jet stream entry.

Thanks,
Dan
SNOX

On Feb 18, 2010, at 7:52, Mark Caviezel <kmcaviezel@yahoo.com> wrote:

> Joe:
> A floater balloon does not have to be a giant PE (polyethylene)
> balloon. The UTARC 'Spirit of Knoxville' balloons were less than
> 1000 cubic feet, and not more difficult to launch than a 1500 gram
> latex balloon. I am getting some downlooking video from a floating
> balloon digitized and will soon be uploaded on to YouTube so that
> people can see just how moderate the balloon dynamics are at float.
>
> best
>
> - Mark ng0x
>

6472. Re: [GPSL] floater balloon- stable platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-18 23:27:41 UTC
From: Mike Manes
Topic: 6470 Message: 6472

Provided, of course, that it's floating in stable air, i.e., absent strong shear, rotors, etc., e.g the one where the on-board video showed the payload ABOVE the inflated balloon!
73 de Mike W5VSI

On 2/18/2010 05:52, Mark Caviezel wrote:
> Joe:
> A floater balloon does not have to be a giant PE (polyethylene) balloon. The UTARC 'Spirit of Knoxville' balloons were less than 1000 cubic feet, and not more difficult to launch than a 1500 gram latex balloon. I am getting some downlooking video from a floating balloon digitized and will soon be uploaded on to YouTube so that people can see just how moderate the balloon dynamics are at float.
>
> best
>
> - Mark ng0x
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6473. I still need help in September

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-19 14:49:26 UTC
From: Keith Kaiser
Topic: 6473 Message: 6473

Fellow Aeronauts,

Paul Verhage and Bill Brown have both stepped up and offered to help the Boy Scouts of America celebrate their 100th year in service to youth by launching a special Centennial balloon this September. I still need one more group to help out. Please read my original posting below and if you will be in the area or can be in the area that day please let me know as soon as possible.

Changes in the original note include the date. Instead of Sunday morning it will be Noon on Saturday 9/25. Logistics of getting your gas to the launch site are still being worked on. I doubt very much the launch team will be able to join the recovery team. In fact I would prefer you stay in camp and show the tracking of your balloon on a laptop, projection or whatever you can think of. I'm trying to arrange to have completely separate teams to do the chase and recovery.

Original Post:

As you may be aware 2010 is the 100th Anniversary of the Boy Scouts of America. The Heart Of America Council of the BSA will be holding a Centennial Celebration Sept. 24, 25, 26 near Bonner Springs, Kansas at Camp Naish. The expectation is for about 20,000 Cub Scouts, Boy Scouts, and Venturers to attend the long weekend event. This will be the second largest celebration in the country, surpassed only by the National Jamboree being held in July at Fort A.P. Hill, Virginia.

I have the honor to server as the Venturing Activities Coordinator for all four of the sub-camps that will be in operation that weekend. I'm very happy to say that Amateur Radio will be very well represented as will Amateur Radio High Altitude Ballooning. To that effort is the reason for this note. I need three more ARHAB groups to launch balloons on Saturday afternoon 9/25 in coordination with NSV's launch.

This would mean traveling to Bonner Springs, KS, coordinating your effort with the NSV representative, doing the launch with however many spectators are present, then doing your own recovery. However it also means a potential audience of 5000 to 10,000 Scouts and an opportunity to show, teach, explain, and recruit these same Scouts. The expense like the opportunity is yours, if you think your group would be interested please contact me asap for more information.

Keith Kaiser
President: Near Space Ventures, Inc.
wa0tjt@...
(816) 587-9636

6474. RE: [GPSL] I still need help in September

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-19 22:03:15 UTC
From: Doug Loughmiller
Topic: 6473 Message: 6474

Keith,

Michael Willett and I from ARBONET would like to work with you on this. We would be glad to come up to Bonner Springs. Count us in!

Doug Loughmiller, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Friday, February 19, 2010 8:49 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] I still need help in September

Fellow Aeronauts,

Paul Verhage and Bill Brown have both stepped up and offered to help the Boy Scouts of America celebrate their 100th year in service to youth by launching a special Centennial balloon this September. I still need one more group to help out. Please read my original posting below and if you will be in the area or can be in the area that day please let me know as soon as possible.

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Original Post:

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in coordination with NSV's launch.

This would mean traveling to Bonner Springs, KS, coordinating your effort with the NSV representative,! doing t he launch with however many spectators are present, then doing your own recovery. However it also means a potential audience of 5000 to 10,000 Scouts and an opportunity to show, teach, explain, and recruit these same Scouts. The expense like the opportunity is yours, if you think your group would be interested please contact me asap for more information.

Keith Kaiser
President: Near Space Ventures, Inc.
wa0tjt@gmail. <mailto:wa0tjt@...> com
(816) 587-9636

6475. Re: [GPSL] I still need help in September

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 03:27:21 UTC
From: Keith Kaiser
Topic: 6473 Message: 6475

Fellow Aeronauts,

I'm please to announce I now have a complete team (plus one) for the Centennial Celebration launch.

The following teams have agreed to be there;

Paul Verhage
Bill Brown
Marc Conner
Near Space Ventures
Michael Willett and Doug Loughmiller from ARBONET

More details on this historic launch will be coming soon.

6476. Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 17:26:06 UTC
From: L. Paul Verhage
Topic: 6476 Message: 6476

I was thinking about these topics earlier this week and thought they ought to be cleared up. So if you'll permit me.

Most people are familiar with the concept that motion is relative. This means that motion to one person looks just the opposite to another person who is not sharing that motion. It's all a matter of your frame of reference.

When we discuss things like the ascent rates and maximum altitudes of a balloon, we really should be discussing these issues in their more accurate frame of reference, that of the balloon. In reality, the balloon is remaining still and the earth (along with the atmosphere which is firmly attached to the earth via gravity) is falling. This occurs because when we put helium into a balloon, we're removing it from the earth and its atmosphere (I'll refer to these as the earth-atmosphere system). When you remove low density material from the earth-atmosphere system, you're increasing its average density. Recall that dense objects can sink and less dense objects can float. The denser earth-atmosphere wants to sink after it remove its helium. And as long as the filled balloon is firmly attached to the earth's surface (via gravity), like by a person holding the balloon's load line or by tying the load line to a helium bottle, the balloon will hold up the earth. So those of you who are holding the filled balloon before launch, you're really holding the earth-atmosphere up. Think about that next time.

Once the balloon is no longer held to the earth, the earth-atmosphere falls away. As the earth and its atmosphere fall away, the balloon is surrounded by less and less dense air. The balloon expands as a result. Since the helium is trapped inside the balloon, there can be no further change in the earth-atmosphere's density and it falls away at a constant rate that is dictated by the friction of the air around the balloon. The atmosphere, which remember is firmly attached to the earth, can only slide pass the balloon at a limited rate. Friction is why the earth does not fall away from the balloon infinitely fast. Many of you have no doubt noticed that at some where around 30-40,000 feet, the balloon appears (and let me stress appears) to rise faster. This is the result of the earth-atmosphere slipping around the balloon faster because of changes in air density and balloon size. This is pretty obvious if you recall that the force of friction is based on factors like surface area and density.

At the point where the atmospheric pressure around the balloon is low enough, the balloon bursts and releases its helium back into the atmosphere. This mixing of helium back into the earth-atmosphere system decreases its average density, causing the earth-atmosphere system to float back up to the balloon. The air rising around the balloon payload makes it tumble (due to turbulence) and inflates the parachute. The mixing of the

balloon's helium with the atmosphere occurs very rapidly and therefore, the change in the density of the earth-atmosphere is very fast. This makes the earth-atmosphere begin to rise very quickly. At the earth-atmosphere rises back up to the balloon, the air becomes denser and the parachute creates more drag, slowing the ascent of the earth-atmosphere. Therefore, we see the initial ascent of the earth-atmosphere is very fast at the start, but over time, the ascent rate slows down until the balloon and earth make contact. At that point, the earth-atmosphere system and balloon are back in equilibrium and the motion comes to an end.

Now, since the days of the Greeks, we've known the world is round or spherical. There is no friction between the earth-atmosphere system and outer space. So when you go on a balloon chase, your car tires are pushing the earth and making it rotate the opposite direction. Let me stress, your car is NOT MOVING!! Therefore, it would help if everyone in their cars would travel together and go the same direction. If your chase teams will push the earth in the same direction, you'll all rotate the earth in the same direction more quickly and get the earth rotated into the proper alignment with the balloon more efficiently. Therefore, it is imperative that we prevent chase crews from leaving their homes from the opposite direction, as this pushes the earth in another direction at the same time. When one big and heavy chase truck tries to push the earth to the west, the rest of our lighter cars trying to push the earth to the east suffer. I for one do not want to see my gas mileage decrease because of this. So please be polite to everyone else and follow along with the rest of the pack.

This also highlights the importance of using the balloon launch announcements system. There are some weekends with multiple balloon launches. If they are occurring at the same time, our cars are fighting each other to rotate the earth to our proper positions. So be considerate and coordinate your launches with other teams across the country.

Just doing my part to clear things up,
Paul
(Next time I'll explain the relativistic effects of a balloon launch and why the Twin Paradox makes use younger after each balloon flight)

6477. Re: [GPSL] Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 17:39:29 UTC
From: HarryM
Topic: 6476 Message: 6477

So if everyone drove their cars to the west or east all at the same time we could in effect speed up or slow down time by rotating the earth faster or slower! I think you've solved the "time machine" mystery! :)

>snip< ... If your chase teams will push the earth in the same direction, you'll all rotate the earth in the same direction more quickly and get the earth rotated into the proper alignment with the balloon more efficiently...<snip>

6478. Re: [GPSL] Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 18:49:38 UTC
From: mw@omsrc.com
Topic: 6476 Message: 6478

That explains the lighter, elated feeling I notice every time we
launched a balloon and the heavy feeling I get when the balloon
popped. The former was due tot he earth falling away from the balloon,
but I thought the latter was due to the electronics failure and
knowing we probably would not find the payloads!!! It was actually due
to the earth's acceleration towards the balloon! I feel so much better
now!

I enjoyed the write up! You should have saved it for April 1!

--Michael

Quoting "L. Paul Verhage" <nearsys@...>:

> I was thinking about these topics earlier this week and thought they ought
> to be cleared up. So if you'll permit me.
>
> Most people are familiar with the concept that motion is relative. This
> means that motion to one person looks just the opposite to another person
> who is not sharing that motion. It's all a matter of your frame of
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> remove its helium. And as long as the filled balloon is firmly attached to
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> load line or by tying the load line to a helium bottle, the balloon will
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> that next time.
>
> Once the balloon is no longer held to the earth, the earth-atmosphere falls
> away. As the earth and its atmosphere fall away, the balloon is surrounded
> by less and less dense air. The balloon expands as a result. Since the
> helium is trapped inside the balloon, there can be no further change in the
> earth-atmosphere's density and it falls away at a constant rate that is
> dictated by the friction of the air around the balloon. The atmosphere,
> which remember is firmly attached to the earth, can only slide pass the

> balloon at a limited rate. Friction is why the earth does not fall away from
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> to rise faster. This is the result of the earth-atmosphere slipping around
> the balloon faster because of changes in air density and balloon size. This
> is pretty obvious if you recall that the force of friction is based on
> factors like surface area and density.
>
> At the point where the atmospheric pressure around the balloon is low
> enough, the balloon bursts and releases its helium back into the
> atmosphere. This mixing of helium back into the earth-atmosphere system
> decreases its average density, causing the earth-atmosphere system to float
> back up to the balloon. The air rising around the balloon payload makes it
> tumble (due to turbulence) and inflates the parachute. The mixing of the
> balloon's helium with the atmosphere occurs very rapidly and therefore, the
> change in the density of the earth-atmosphere is very fast. This makes the
> earth-atmosphere begin to rise very quickly. At the earth-atmosphere rises
> back up to the balloon, the air becomes denser and the parachute creates
> more drag, slowing the ascent of the earth-atmosphere. Therefore, we see
> the initial ascent of the earth-atmosphere is very fast at the start, but
> over time, the ascent rate slows down until the balloon and earth make
> contact. At that point, the earth-atmosphere system and balloon are back in
> equilibrium and the motion comes to an end.
>
> Now, since the days of the Greeks, we've known the world is round or
> spherical. There is no friction between the earth-atmosphere system and
> outer space. So when you go on a balloon chase, your car tires are pushing
> the earth and making it rotate the opposite direction. Let me stress, your
> car is NOT MOVING!! Therefore, it would help if everyone in their cars
> would travel together and go the same direction. If your chase teams will
> push the earth in the same direction, you'll all rotate the earth in the
> same direction more quickly and get the earth rotated into the proper
> alignment with the balloon more efficiently. Therefore, it is imperative
> that we prevent chase crews from leaving their homes from the opposite
> direction, as this pushes the earth in another direction at the same time.
> When one big and heavy chase truck tries to push the earth to the west, the
> rest of our lighter cars trying to push the earth to the east suffer. I for
> one do not want to see my gas mileage decrease because of this. So please
> be polite to everyone else and follow along with the rest of the pack.
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> This also highlights the importance of using the balloon launch
> announcements system. There are some weekends with multiple balloon
> launches. If they are occurring at the same time, our cars are fighting
> each other to rotate the earth to our proper positions. So be considerate
> and coordinate your launches with other teams across the country.
>
> Just doing my part to clear things up,
> Paul
> (Next time I'll explain the relativistic effects of a balloon launch and why
> the Twin Paradox makes use younger after each balloon flight)

>

6479. Re: [GPSL] Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 19:05:41 UTC
From: Alan Sieg WB5RMG
Topic: 6476 Message: 6479

> So if everyone drove their cars to the west or east all at the same time we
> could in effect speed up or slow down time by rotating the earth faster or
> slower! I think you've solved the "time machine" mystery! :)

Seems once upon a time, NASA had a scheme to mount large rocket boosters
to the earth so that we could get rid of those pesky 'leap-seconds'...

Maybe if we are no longer gonna lead the world in human-rated space flight,
we should make good use of all those large and dangerous rocket motors ..!..

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6480. Re: [GPSL] Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 20:19:37 UTC
From: Zack Clobes
Topic: 6476 Message: 6480

So is this your Nuts and Volts article for April?

On Sat, Feb 20, 2010 at 1:05 PM, Alan Sieg WB5RMG <wb5rmg@...>wrote:

>
>
> > So if everyone drove their cars to the west or east all at the same time
> we
> > could in effect speed up or slow down time by rotating the earth faster
> or
> > slower! I think you've solved the "time machine" mystery! :)
>
> Seems once upon a time, NASA had a scheme to mount large rocket boosters
> to the earth so that we could get rid of those pesky 'leap-seconds'...
>
> Maybe if we are no longer gonna lead the world in human-rated space flight,
> we should make good use of all those large and dangerous rocket motors
> ..!..
>
> /;^)
> --
> # Alan Sieg, WB5RMG since 1976
> # http://wb5rmg.wordpress.com
> # http://www.linkedin.com/in/alansieg
> # wb5rmg(at)amsat(dot)org AMSAT#20554
>
>
>

6481. Re: [GPSL] Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-20 23:28:57 UTC
From: L. Paul Verhage
Topic: 6476 Message: 6481

You know, I should have saved this for April 1st. Rats.

Paul
On Sat, Feb 20, 2010 at 2:19 PM, Zack Clobes <zclobes@...> wrote:

>
>
> So is this your Nuts and Volts article for April?
>
>
> On Sat, Feb 20, 2010 at 1:05 PM, Alan Sieg WB5RMG <wb5rmg@...>wrote:
>
>>
>>
>> > So if everyone drove their cars to the west or east all at the same time
>> we
>> > could in effect speed up or slow down time by rotating the earth faster
>> or
>> > slower! I think you've solved the "time machine" mystery! :)
>>
>> Seems once upon a time, NASA had a scheme to mount large rocket boosters
>> to the earth so that we could get rid of those pesky 'leap-seconds'...
>>
>> Maybe if we are no longer gonna lead the world in human-rated space
>> flight,
>> we should make good use of all those large and dangerous rocket motors
>> ..!..
>>
>> /;^)
>> --
>> # Alan Sieg, WB5RMG since 1976
>> # http://wb5rmg.wordpress.com
>> # http://www.linkedin.com/in/alansieg
>> # wb5rmg(at)amsat(dot)org AMSAT#20554
>>
>>
>
>
>

--
Onwards and Upwards,
Paul

6482. PICAXE communication

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-21 00:04:56 UTC
From: L. Paul Verhage
Topic: 6482 Message: 6482

Has anyone tried sending a byte of data to a PICAXE using theterminal program?

I can display text sent to the terminal program with the SEROUT command. But I can't type a character into the terminal's buffer and send it to the PICAXE. The PICAXE acts like nothing was sent to it and it just waits. I don't see any documentation in the editor program about this and it has me stumped.

--
Onwards and Upwards,
Paul

6483. Re: [GPSL] PICAXE communication

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-21 05:19:21 UTC
From: Mike Manes
Topic: 6482 Message: 6483

Does your terminal program require CTS and/or MR signals HIGH before xmitting?

On 2/20/2010 17:04, L. Paul Verhage wrote:
>
>
> Has anyone tried sending a byte of data to a PICAXE using theterminal
> program?
> I can display text sent to the terminal program with the SEROUT
> command. But I can't type a character into the terminal's buffer and
> send it to the PICAXE. The PICAXE acts like nothing was sent to it and
> it just waits. I don't see any documentation in the editor program
> about this and it has me stumped.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6484. Re: Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-21 23:30:01 UTC
From: Al Wolfe
Topic: 6476 Message: 6484

Great perspective, Paul. Yup, I guess everything is relative.

Reminded me of a few years back when I was teaching theater lighting students about some of the finer points of illumination. There was this theory going around that light was actually everywhere but darkness was covering it up. All one had to do was remove the darkness to get light. Hence, light bulbs and lighting instruments were actually "Dark Suckers". If one could remove the "Darkness" we are left with light. Depending on how much of the "Darkness" in removed determines how bright an object becomes to our eyes. Fluorescent bulbs are about four times more efficient than incandescent ones at sucking up darkness.

73,
Al, K9SI, retired

> Clearing up a Couple of Misconceptions
> Posted by: "L. Paul Verhage" nearsys@... near_sys
> Date: Sat Feb 20, 2010 9:27 am ((PST))
>
> I was thinking about these topics earlier this week and thought they ought
> to be cleared up. So if you'll permit me.

6485. Re: [GPSL] Re: Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-21 23:46:22 UTC
From: L. Paul Verhage
Topic: 6476 Message: 6485

Funny you should mention that.....

I wanted to clear up a misconception about why near space is dark......
(Not really, but it sounds good).

Although, if you're looking at pigments, black is all colors combined versus
in illumination where black is an absence of light. So I guess you could
say that in pigments, you need color suckers to get a color other than
black.

Paul

On Sun, Feb 21, 2010 at 5:30 PM, Al Wolfe <k9si@...> wrote:

> Great perspective, Paul. Yup, I guess everything is relative.
>
> Reminded me of a few years back when I was teaching theater lighting
> students about some of the finer points of illumination. There was this
> theory going around that light was actually everywhere but darkness was
> covering it up. All one had to do was remove the darkness to get light.
> Hence, light bulbs and lighting instruments were actually "Dark Suckers".
> If
> one could remove the "Darkness" we are left with light. Depending on how
> much of the "Darkness" in removed determines how bright an object becomes
> to
> our eyes. Fluorescent bulbs are about four times more efficient than
> incandescent ones at sucking up darkness.
>
> 73,
> Al, K9SI, retired
>
>
>
>
> > Clearing up a Couple of Misconceptions
> > Posted by: "L. Paul Verhage" nearsys@... near_sys
> > Date: Sat Feb 20, 2010 9:27 am ((PST))
> >
> > I was thinking about these topics earlier this week and thought they
> ought
> > to be cleared up. So if you'll permit me.
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

6486. Re: [GPSL] Re: Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 05:27:35 UTC
From: Mike Manes
Topic: 6476 Message: 6486

In that light, I feel compelled to warn this august community about
an emerging new threat to illumination: the dreaded Dark Emitting Diode
(DED).

These devices naturally evolve from silicon-based creations which
have been exposed to high temperatures, and have been proliferating in
our environment for over 50 years. Research has shown that a substance
known in the profession as MS (magic smoke) seems to suppress DED development,
which is statistically correlated (r < 0.1) by the release of noxious MS into
the atmosphere.

Unaccountably, DED development also appears to suppress the intended
functionality of the silicon devices from which they evolved, resulting
in the thoughtless disposal of said devices along with entire apparati
which they occupied. The only shred of light in this alarming story is
that DEDs and their accompanying baggage are frequently exported to nations
which may be suffering from an excess of illumination, thus helping
counterbalance US's unfavorable trade balance.

Forewarned is forearmed, patriots! Join me in supporting the Coalition
for Removal, Obliteration and Withdrawal of Dark Emitting Devices
(CROWDED), a 503c1 organization.

73 de Mike W5VSI
CTO EOSS

On 2/21/2010 16:30, Al Wolfe wrote:
> Great perspective, Paul. Yup, I guess everything is relative.
>
> Reminded me of a few years back when I was teaching theater lighting
> students about some of the finer points of illumination. There was this
> theory going around that light was actually everywhere but darkness was
> covering it up. All one had to do was remove the darkness to get light.
> Hence, light bulbs and lighting instruments were actually "Dark Suckers". If
> one could remove the "Darkness" we are left with light. Depending on how
> much of the "Darkness" in removed determines how bright an object becomes to
> our eyes. Fluorescent bulbs are about four times more efficient than
> incandescent ones at sucking up darkness.
>
> 73,
> Al, K9SI, retired
>
>
>
>
>> Clearing up a Couple of Misconceptions

>> Posted by: "L. Paul Verhage" nearsys@... near_sys
>> Date: Sat Feb 20, 2010 9:27 am ((PST))
>>
>> I was thinking about these topics earlier this week and thought they ought
>> to be cleared up. So if you'll permit me.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6487. Re: [GPSL] Re: Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 15:40:33 UTC
From: HarryM
Topic: 6476 Message: 6487

Mike, I think we all have a few of these laying around. I call them burned out LED's. :)

73 Harry

In that light, I feel compelled to warn this august community about
an emerging new threat to illumination: the dreaded Dark Emitting Diode
(DED).

6488. Re: [GPSL] Re: Clearing up a Couple of Misconceptions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 19:57:54 UTC
From: Mike Manes
Topic: 6476 Message: 6488

Well, CRUSH them before they propagate! And you should also know that
they can also lurk inside many other silicon deviceforms - some of which
can have 24 or more legs!

On 2/22/2010 08:40, HarryM wrote:
>
>
> Mike, I think we all have a few of these laying around. I call them
> burned out LED's. :)
> 73 Harry
>
> In that light, I feel compelled to warn this august community about
> an emerging new threat to illumination: the dreaded Dark Emitting Diode
> (DED).
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6489. A couple of HABing Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 21:33:13 UTC
From: Pete Lilja
Topic: 6489 Message: 6489

I have in my mind that we're not supposed to release < 6 lb. payload untethered balloons within 5 miles of an airport without FAA permission / approval / waiver. Is that correct?

And this question is a bit silly but I'm going to ask anyway. Another of my many hobbies is flying high powered rockets. At a few launches I've placed in my larger rockets bottles of Crown Royal Whisky to enjoy later with my fellow rocketeers after the range has closed for the day. I've lofted full liter-sized glass bottles to the small, plastic airplane style bottles of the fine spirit without a negative outcome. As you've probably guessed by now I've been thinking of doing the same in a HAB. Since the highest altitude acheived for one of these High Spirit rocket flights has been just over 11,000' I am wondering what the opinion is amongst you more scientific-minded folks regarding the survivability of a small, plastic bottle of whisky would be at 100,000'? It could be sealed in a Ziplock bag or two just in case but I'm really wondering how well the bottle would take the extremes of a near space flight...I think it'd be fun to share a toast to HABing with some Space Whisky.

Pete
KC0GPB

6490. Re: [Balloon_Sked] A couple of HABing Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 21:48:33 UTC
From: Idle-Tyme
Topic: 6489 Message: 6490

Lightweight, keep the whole thing under the 6 pounds and legally, I
guess not a problem// Ziplock bag forget it. and hard to say about the
regular small
bottle.it will have about 15 Psi inside it at altitude.

Joe WB9SBD Near Space Sciences
20+ years of HAB and counting.
47 launched & 47 recovered, 100% recovery!

*The Original Rolling Ball Clock
Idle-Tyme.com
*

Pete Lilja wrote:
>
>
> I have in my mind that we're not supposed to release < 6 lb. payload
> untethered balloons within 5 miles of an airport without FAA
> permission / approval / waiver. Is that correct?
>
> And this question is a bit silly but I'm going to ask anyway. Another
> of my many hobbies is flying high powered rockets. At a few launches
> I've placed in my larger rockets bottles of Crown Royal Whisky to
> enjoy later with my fellow rocketeers after the range has closed for
> the day. I've lofted full liter-sized glass bottles to the small,
> plastic airplane style bottles of the fine spirit without a negative
> outcome. As you've probably guessed by now I've been thinking of
> doing the same in a HAB. Since the highest altitude acheived for one
> of these High Spirit rocket flights has been just over 11,000' I am
> wondering what the opinion is amongst you more scientific-minded folks
> regarding the survivability of a small, plastic bottle of whisky would
> be at 100,000'? It could be sealed in a Ziplock bag or two just in
> case but I'm really wondering how well the bottle would take the
> extremes of a near space flight...I think it'd be fun to share a toast
> to HABing with some Space Whisky.
>
> Pete
> KC0GPB
>
>
>
> ---
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com

> Version: 9.0.733 / Virus Database: 271.1.1/2703 - Release Date: 02/22/10 01:34:00
>
>

6491. Re: [Balloon_Sked] A couple of HABing Questions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-22 22:21:02 UTC
From: Mike Manes
Topic: 6489 Message: 6491

If your payload is fully exempt per FAR-101.1, then the only other provisions that apply are 101.7, hazardous operations, i.e., dropping stuff on people or their property.

However, if your flight could get crossways with civil aviation, then it's a good idea to let the FAA know what you're up to, lest you get pilloried for negligence in the unlikely event of Gawd Forbid. Posting a HiBal and getting a NOTAM listed generally takes care of that and goes beyond your legal obligations per FAR-101 for exempt flights.

Re StratoBooze: If the plastic bottle's well capped and doesn't contain much air, then I'd think it could survive a flight. But you might wanna start out with just a shooter. Not sure what the freezing point of 80 proof Jack might be, but it'll likely be nice and chilled if you make a snappy recovery.

Just be sure you've got a designated T-totler driver for the trip back home from the recovery site :=}.

73 de Mike W5VSI

On 2/22/2010 14:33, Pete Lilja wrote:
>
>
> I have in my mind that we're not supposed to release < 6 lb. payload
> untethered balloons within 5 miles of an airport without FAA permission
> / approval / waiver. Is that correct?
>
> And this question is a bit silly but I'm going to ask anyway. Another
> of my many hobbies is flying high powered rockets. At a few launches
> I've placed in my larger rockets bottles of Crown Royal Whisky to enjoy
> later with my fellow rocketeers after the range has closed for the day.
> I've lofted full liter-sized glass bottles to the small, plastic
> airplane style bottles of the fine spirit without a negative outcome.
> As you've probably guessed by now I've been thinking of doing the same
> in a HAB. Since the highest altitude acheived for one of these High
> Spirit rocket flights has been just over 11,000' I am wondering what the
> opinion is amongst you more scientific-minded folks regarding the
> survivability of a small, plastic bottle of whisky would be at
> 100,000'? It could be sealed in a Ziplock bag or two just in case but
> I'm really wondering how well the bottle would take the extremes of a
> near space flight...I think it'd be fun to share a toast to HABing with
> some Space Whisky.
>
> Pete
> KC0GPB
>

>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6492. KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-24 15:41:08 UTC
From: pete sias
Topic: 6492 Message: 6492

Kansas Wesleyan University physics club will launch this Saturday at 8 am from Salina KS EM18. We are expecting a SE track at this time.

Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts output. Using a 1500 gr. balloon with He.

Wishing all success on receiving video and we will be interested in any reports.

Pete

6493. Re: [GPSL] Geiger Counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-24 16:43:18 UTC
From: James Hannon
Topic: 6394 Message: 6493

Here is an interesting site for homebuilt Geiger counter and other cosmic ray detectors, power supplies ect.http://www.cosmicrays.org/Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL

6494. Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-24 19:51:03 UTC
From: Jeff Dailey
Topic: 5921 Message: 6494

Flight #: 221
Flight ID: Regional High School Teacher Training Launch
Date: 02-24-2010
Time: 01:00 PM
Launch Site: Conner Prairie Fishers Indiana

APRS: 144.390 KB9ZNZ-1

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6495. Launch Announcement Reminder

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 03:17:59 UTC
From: Keith Kaiser
Topic: 6495 Message: 6495

The season is getting busy, several groups are submitting launch announcements, I try hard to jump on them right away to get them posted quickly. Please remember to use the form at;

http://www.arhab.org/annomail.html

to submit your launch announcements. This truly does speed up the process, I will eventually automate the process completely and it will depend entirely on using this form.

Thanks guys and good luck.

I'm starting to look forward to GPSL....

73's

6496. Re: [GPSL] KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 16:37:43 UTC
From: Mark Garrett
Topic: 6492 Message: 6496

Pete:

Will look to see if I can get something going to watch for your flight in Macomb, IL. BTW: we now have an APRS node with pretty good coverage but you would need to be on 144.390 to use it.

Mark Garrett, KA9SZX

From: pete sias <petesias@...>
To: GPSL@yahoogroups.com
Sent: Wed, February 24, 2010 9:41:08 AM
Subject: [GPSL] KWU launch

Kansas Wesleyan University physics club will launch this Saturday at 8 am from Salina KS EM18. We are expecting a SE track at this time.

Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts output. Using a 1500 gr. balloon with He.

Wishing all success on receiving video and we will be interested in any reports.

Pete

6497. Re: [GPSL] KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 17:21:08 UTC
From: Mark Conner
Topic: 6492 Message: 6497

Mark,

Good reminder - I'll switch my Igate (west of Omaha) to 144.34 Friday night
and see if maybe I can get someone in Topeka to do the same.

73 de Mark N9XTN

On Thu, Feb 25, 2010 at 10:37, Mark Garrett <ka9szx@...> wrote:

>
>
> Pete:
>
> Will look to see if I can get something going to watch for your flight in
> Macomb, IL. BTW: we now have an APRS node with pretty good coverage but you
> would need to be on 144.390 to use it.
>
> Mark Garrett, KA9SZX
>
>
> ------------------------------
> *From:* pete sias <petesias@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, February 24, 2010 9:41:08 AM
> *Subject:* [GPSL] KWU launch
>
>
>
> Kansas Wesleyan University physics club will launch this Saturday at 8 am
> from Salina KS EM18. We are expecting a SE track at this time.
>
> Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and
> video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts
> output. Using a 1500 gr. balloon with He.
>
> Wishing all success on receiving video and we will be interested in any
> reports.
>
> Pete
>
>
>
>
>
>

6498. w3Baltrak site down

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 17:56:47 UTC
From: Keith Kaiser
Topic: 6498 Message: 6498

The prediction site is down due to an issue at the NOAA web site. It's been down all day and unfortunately we have no idea when it will be back up.

Sorry for any inconvenience this causes our users.

You can keep an eye on the NOAA site but check here; http://www.arl.noaa.gov/READYcmet.php and suppling a airport code and clicking on continue. Once their site is functioning again, ours will be too.

6499. Re: [GPSL] KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 18:32:13 UTC
From: Zack Clobes
Topic: 6492 Message: 6499

Pete, do you have any predictions as to where it might go?

I hope to either iGate or chase, but I'm down a radio so it will be one or the other.

Zack

On Thu, Feb 25, 2010 at 11:21 AM, Mark Conner <mconner1@...> wrote:

>
>
> Mark,
>
> Good reminder - I'll switch my Igate (west of Omaha) to 144.34 Friday night
> and see if maybe I can get someone in Topeka to do the same.
>
> 73 de Mark N9XTN
>
>
> On Thu, Feb 25, 2010 at 10:37, Mark Garrett <ka9szx@...> wrote:
>
>>
>>
>> Pete:
>>
>> Will look to see if I can get something going to watch for your flight in
>> Macomb, IL. BTW: we now have an APRS node with pretty good coverage but you
>> would need to be on 144.390 to use it.
>>
>> Mark Garrett, KA9SZX
>>
>>
>> ------------------------------
>> *From:* pete sias <petesias@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Wed, February 24, 2010 9:41:08 AM
>> *Subject:* [GPSL] KWU launch
>>
>>
>>
>> Kansas Wesleyan University physics club will launch this Saturday at 8 am
>> from Salina KS EM18. We are expecting a SE track at this time.
>>
>> Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and
>> video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts
>> output. Using a 1500 gr. balloon with He.

>>
>> Wishing all success on receiving video and we will be interested in any
>> reports.
>>
>> Pete
>>
>>
>>
>>
>>
>
>

6500. Re: [GPSL] KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 19:22:07 UTC
From: pete sias
Topic: 6492 Message: 6500

I gating on 144.34 will be good.

Expect a southeast track from Salina,KS @ ~ 80-100 miles

Pete

--- On Thu, 2/25/10, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: Re: [GPSL] KWU launch
To: GPSL@yahoogroups.com
Date: Thursday, February 25, 2010, 12:32 PM

Pete, do you have any predictions as to where it might go?

I hope to either iGate or chase, but I'm down a radio so it will be one or the other.

Zack

On Thu, Feb 25, 2010 at 11:21 AM, Mark Conner <mconner1@gmail. com> wrote:

Mark,

Good reminder - I'll switch my Igate (west of Omaha) to 144.34 Friday night and see if maybe I can get someone in Topeka to do the same.

73 de Mark N9XTN

On Thu, Feb 25, 2010 at 10:37, Mark Garrett <ka9szx@yahoo. com> wrote:

Pete:

Will look to see if I can get something going to watch for your flight in Macomb, IL. BTW: we now have an APRS node with pretty good coverage but you would need to be on 144.390 to use it.

Mark Garrett, KA9SZX

From: pete sias <petesias@yahoo. com>
To: GPSL@yahoogroups. com

Sent: Wed, February 24,
2010 9:41:08 AM
Subject: [GPSL] KWU launch

Kansas Wesleyan University physics club will launch this Saturday at 8 am from Salina KS EM18. We are expecting a SE track at this time.

Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts output. Using a 1500 gr. balloon

with He.

Wishing all success on receiving video and we will be interested in any reports.

Pete

6501. Balloon Availability

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-25 21:58:17 UTC
From: Keith Kaiser
Topic: 6501 Message: 6501

Guys,

I recently received a note from Ivan Eremin (UA1CRX) at the Saint-Petersbur Balloon Experiment Group. They are in need of 1 to 3 balloons for some launches they want to do. But are unable to contact anyone here in the states to order them to from. Where are you guys ordering your balloons? I know some get them from eBay but other must be ordering through Kaymont or other sources.

Please let me know and I'll forward the info on to Ivan.

Thanks..

6502. Re: KWU launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 02:32:49 UTC
From: jjdemeyer
Topic: 6492 Message: 6502

Hello Pete!

I am doing some testing for a MapPoint add-in I built. The add-in makes flight path predictions using READY data.
The track is southeast for Saturday morning and changes very little over a three hour period. The predicted landing is generally south of Wichita. I'd be happy to post or send a screen shot of the predicted paths.

Good luck with the flight!

Joe
www.surfingsatellites.org

--- In GPSL@yahoogroups.com, pete sias <petesias@...> wrote:
>
> Kansas Wesleyan University physics club will launch this Saturday at 8 am from Salina KS EM18. We are expecting a SE track at this time.
>
> Payload consists of APRS on 144.34 with 10 second updates (NØOY-11) and video on 439.250 Mhz (cable ch. 60) horizontal polarization with 2 watts output. Using a 1500 gr. balloon with He.
>
> Wishing all success on receiving video and we will be interested in any reports.
>
> Pete
>

6503. Re: [GPSL] Balloon Availability

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 04:25:27 UTC
From: Mark Conner
Topic: 6501 Message: 6503

I think Kaymont is the best bet, if they have stock of the size wanted.
Anytime I've ordered from them they have 1200g or 1500g in stock. I'll
probably find out tomorrow as I need to make my 2010 order soon.

Another possibility is Scientific Sales. Their balloons are more expensive
but the two 1500g balloons I got from them performed very well.

73 de Mark N9XTN

On Thu, Feb 25, 2010 at 15:58, Keith Kaiser <wa0tjt@...> wrote:

> Guys,
>
> I recently received a note from Ivan Eremin (UA1CRX) at the Saint-Petersbur
> Balloon Experiment Group. They are in need of 1 to 3 balloons for some
> launches they want to do. But are unable to contact anyone here in the
> states to order them to from. Where are you guys ordering your balloons? I
> know some get them from eBay but other must be ordering through Kaymont or
> other sources.
>
> Please let me know and I'll forward the info on to Ivan.
>
> Thanks..
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

6504. Re: [GPSL] Balloon Availability

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 04:36:35 UTC
From: Mike Manes
Topic: 6501 Message: 6504

We post our orders to Paul Fetkowitz at Kaymont via email. Not sure what hoops it would take to export from the US to Russia, tho.

Paul's email is: paul@...

73 de Mike W5VSI

On 2/25/2010 14:58, Keith Kaiser wrote:
> Guys,
>
> I recently received a note from Ivan Eremin (UA1CRX) at the Saint-Petersbur Balloon Experiment Group. They are in need of 1 to 3 balloons for some launches they want to do. But are unable to contact anyone here in the states to order them to from. Where are you guys ordering your balloons? I know some get them from eBay but other must be ordering through Kaymont or other sources.
>
> Please let me know and I'll forward the info on to Ivan.
>
> Thanks..
>
> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6505. balloon re-use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 14:46:13 UTC
From: pete sias
Topic: 6505 Message: 6505

Has anyone re-used a 1200g Totex (Kaymont) balloon?

For example, use the balloon on a tether for testing then remove the He, store it for a week then re-inflate for the actual flight.

I left this balloon in Peru for the university to test their nano satellite package. They don't have the option of cheaply getting another balloon quickly, thus the question..

tnx Pete NØOY

6506. Re: [GPSL] balloon re-use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 15:44:52 UTC
From: L. Paul Verhage
Topic: 6505 Message: 6506

We did that for an Idaho test back in 2002. I don't recall there being any problem.

Paul

On Fri, Feb 26, 2010 at 8:46 AM, pete sias <petesias@yahoo.com> wrote:

> Has anyone re-used a 1200g Totex (Kaymont) balloon?
>
> For example, use the balloon on a tether for testing then remove the He,
> store it for a week then re-inflate for the actual flight.
>
> I left this balloon in Peru for the university to test their nano satellite
> package. They don't have the option of cheaply getting another balloon
> quickly, thus the question..
>
> tnx Pete NØOY
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6507. Re: [GPSL] w3Baltrak site down

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-26 19:55:38 UTC
From: Mark Conner
Topic: 6498 Message: 6507

Keith,

It appears NOAA ARL has reorganized their web site and perhaps has
permanently moved that functionality. I can't get a response through the
gus.arlhq.noaa.gov interface, though the page is still up. However, all
data including forecast wind profiles are accessible through the
www.arl.noaa.gov interface you list below.

Can the online utility be modified to use the new NOAA interface?

73 de Mark N9XTN

On Thu, Feb 25, 2010 at 11:56, Keith Kaiser <wa0tjt@...> wrote:

>
>
> The prediction site is down due to an issue at the NOAA web site. It's been
> down all day and unfortunately we have no idea when it will be back up.
>
> Sorry for any inconvenience this causes our users.
>
> You can keep an eye on the NOAA site but check here;
> http://www.arl.noaa.gov/READYcmet.php and suppling a airport code and
> clicking on continue. Once their site is functioning again, ours will be
> too.
>
>
>

6508. Re: [GPSL] balloon re-use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-27 00:09:04 UTC
From: wb8elk@aol.com
Topic: 6505 Message: 6508

Yes...I've done this a couple of times....the most recent one was a balloon left on the ceiling of the balloon highbay here (after it escaped from the filling hose)....it sat there 3 weeks on the ceiling and we flew it after getting it down with a pole. Unfortunately, we didn't see the 1/8" hole in the balloon made by the rough ceiling....amazingly it didn't burst on inflation and made it up to about 28,000 feet before coming slowly back down intact....it actually took some effort to pop it once we pulled it down from the tree it was laying up against. That and the fact that you've had some amazing floater flights inspired me to try to intentionally put a continuous leak hole in the balloon nozzle (with PVC pipe fitting). I've done several floater flights using just an 1/16" hole that floated all night long over 100,000 feet and the folks in the UK have been doing the same thing successfully as well.

- Bill WB8ELK

-----Original Message-----
From: pete sias <petesias@...>
To: GPSL@yahoogroups.com
Sent: Fri, Feb 26, 2010 8:46 am
Subject: [GPSL] balloon re-use

Has anyone re-used a 1200g Totex (Kaymont) balloon?

For example, use the balloon on a tether for testing then remove the He, store it for a week then re-inflate for the actual flight.

I left this balloon in Peru for the university to test their nano satellite package. They don't have the option of cheaply getting another balloon quickly, thus the question..

tnx Pete NØOY

6509. Re: [GPSL] balloon re-use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-27 05:30:02 UTC
From: Mike Manes
Topic: 6505 Message: 6509

Hi Pete,

I guess it depends a lot on how much sunlight exposure it's received. UV
total dose is the most significant degradation factor for latex/neoprene.
If it's not discolored, then it may be nearly good as new - but I can't
say that from direct experience.

73 de Mike W5VSI

On 2/26/2010 07:46, pete sias wrote:
> Has anyone re-used a 1200g Totex (Kaymont) balloon?
>
> For example, use the balloon on a tether for testing then remove the He, store it for a week then re-inflate for the actual flight.
>
> I left this balloon in Peru for the university to test their nano satellite package. They don't have the option of cheaply getting another balloon quickly, thus the question..
>
> tnx Pete NØOY
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6510. N0OY burst on the eastern edge of Newton, around 97k.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-27 15:39:49 UTC
From: Zack Clobes
Topic: 6510 Message: 6510

Touchdown is looking towards the city of El Dorado.

6511. KWU flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-28 01:14:15 UTC
From: pete sias
Topic: 6511 Message: 6511

KWU physics club's balloon was released today at 8:01 am, reached 97,461 ft and landed between Wichita and August KS, missing all the nearby trees.

All systems worked as planned but the video signal needed more gain. When a short yagi was used for receive, video was near P5.

73' Pete NØOY

6512. Re: [GPSL] KWU flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-02-28 02:48:48 UTC
From: Bruce Coates
Topic: 6511 Message: 6512

Hi Pete

Great flight. I was tracking it this morning wishing that the snow had melted here too. ;-)

What were you using for your video? We're running a 439.25 AM transmitter and I'm hoping to run something that will give us better images on future flights.

73, Bruce
VE5BNC

----- Original Message -----
From: pete sias
To: GPSL@yahoogroups.com
Sent: Saturday, February 27, 2010 7:14 PM
Subject: [GPSL] KWU flight

KWU physics club's balloon was released today at 8:01 am, reached 97,461 ft and landed between Wichita and August KS, missing all the nearby trees.

All systems worked as planned but the video signal needed more gain. When a short yagi was used for receive, video was near P5.

73' Pete NØOY

6513. Re: Fwd: International Space Station

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-01 01:51:29 UTC
From: Mike Manes
Topic: 6513 Message: 6513

What a great project! Hope we can keep it alive for a while.
73 de Mike W5VSI

On 2/27/2010 13:21, Bill Bradford wrote:
>
>
> ---------- Forwarded message ----------
>
> For those of you interested in the status of the
> construction of the Space Station, here's an update
> . Quite an accomplishment.
>
> Look at what happened from 1998 until 2008. In just ten
> years it has grown and grown.
>
>
> Watch the pieces come together as they are sent up
> from Earth. This is the International Space Station (ISS)
> Assembly diagram, piece by piece.
>
>
> This is really cool.....
>
> What a piece of engineering!!
>
> Click below:
>
> http://i.usatoday.net/tech/graphics/iss_timeline/flash.htm
>
>
>
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6514. Launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-05 17:14:56 UTC
From: Jeff Dailey
Topic: 5921 Message: 6514

Flight #: 222
Flight ID: CCLI
Date: 03-06-2010
Time: 10:00 AM
Launch Site: Okahoma Christian University (Edmond OK.)

APRS: 144.390 KB9ZNZ-6

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

6515. Kaymont inventory

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-08 20:05:24 UTC
From: Mark Conner
Topic: 6515 Message: 6515

Placed a balloon order today - they have 2000g balloons in stock at $250, no 1500s, and I got the last 1200g on hand at $65. Did not inquire about other sizes.

73 de Mark N9XTN

6516. Spam

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-09 13:31:00 UTC
From: L. Paul Verhage
Topic: 6516 Message: 6516

When I delete my spam, why can't I delete the peole who sent it?

--
Onwards and Upwards,
Paul

6517. Re: jkennon@astate.edu & Re: balloon trajectory prediction util

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-09 15:58:28 UTC
From: Keith Kaiser
Topic: 6517 Message: 6517

I will let the entire community know just as soon as it gets fixed. As an interesting aside w3baltrk has made 14293 projections since it went on-line. We are well aware of it's use.

Thanks guys for being patient.

On Mar 9, 2010, at 2:09 AM, justin@... wrote:

> Thank you for the quick response. If you wouldn't mind, please keep me posted.
>
> Thanks,
>
> Justin Hamel
> -------- Original Message --------
> Subject: Re: jkennon@astate.edu & Re: balloon trajectory prediction
> util
> From: Keith Kaiser <wa0tjt@...>
> Date: Mon, March 08, 2010 9:04 pm
> To: James.Kennon@ncr.cap.gov, justin@...
>
> I can only explain that NOAA has changed there procedures and we are trying to find an acceptable way to fix the problem.
>
> I'm so sorry, please hang in there with us until we get this thing figured out.
>
> On Mar 8, 2010, at 7:43 PM, James.Kennon@....gov wrote:
>
> > I am checking to see if there is something wrong with your http://nearspaceventures.com/w3Baltrak/readyget.pl web site. I have tried several days to run a track and cannot get past the Forecasting Period Selection and NOAA login: page
> >
> > Thanks,
> >
> > Tillman
> > _____
> >
> > Dr. Tillman Kennon
> > Associate Professor of Science Education
> > Arkansas BalloonSAT Research Director
> > Northeast Arkansas Regional Science Fair Director
> > Chemistry & Physics Department
> > Arkansas State University
> > PO Box 419
> > State University, AR 72467
> > Phone: 870 972-3256
> > Fax: 870 972-3089
> > Email: jkennon@...

> >
> > This E-mail was sent via http://nearspaceventures.com
>

6518. Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-12 17:48:47 UTC
From: dvpatterson@comcast.net
Topic: 6518 Message: 6518

Just stumbled across this at Sparkfun : http :// www . sparkfun .com/commerce/ product_info . php ? products_id =9689

It's an air quality sensor by Sharp designed to detect dust and smoke; it looks like it would be fairly easy to integrate into most payloads, and could provide some interesting data, especially if historical data could be archived. Forest fire smoke plume detection and characterization strikes me as an obvious application... the link to the datasheet is on the Sparkfun page; any other ideas?

-David

6519. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-12 17:52:47 UTC
From: L. Paul Verhage
Topic: 6518 Message: 6519

Let me look at the link, but one thing to look at is how dust free is the stratosphere. Big volcanic eruptions, meteor impacts, and nuclear war can drive dust into the stratosphere that can effect weather for years (since there's no rain to wash it out).

One thing to look at is how the lower air pressure effects its readings.

Paul

On Fri, Mar 12, 2010 at 11:48 AM, <dvpatterson@...> wrote:

>
>
> Just stumbled across this at Sparkfun:
> http://www.sparkfun.com/commerce/product_info.php?products_id=9689
>
>
>
> It's an air quality sensor by Sharp designed to detect dust and smoke; it
> looks like it would be fairly easy to integrate into most payloads, and
> could provide some interesting data, especially if historical data could be
> archived. Forest fire smoke plume detection and characterization strikes me
> as an obvious application... the link to the datasheet is on the Sparkfun
> page; any other ideas?
>
>
>
> -David
>
>
>

--
Onwards and Upwards,
Paul

6520. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-12 17:59:05 UTC
From: dvpatterson@comcast.net
Topic: 6518 Message: 6520

Very true; the application could be two-fold: a long-term observation of the statosphere (can we see a spike after a major eruption?), an shorter-term observations on the trip up. The biggest limitation that I saw was the rated temp. range... only spec'd down to -10C.

----- Original Message -----
From: "L. Paul Verhage" <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Friday, March 12, 2010 10:52:47 AM GMT -07:00 US/Canada Mountain
Subject: Re: [GPSL] Dust/Smoke sensor

Let me look at the link, but one thing to look at is how dust free is the stratosphere. Big volcanic eruptions, meteor impacts, and nuclear war can drive dust into the stratosphere that can effect weather for years (since there's no rain to wash it out).

One thing to look at is how the lower air pressure effects its readings.

Paul

On Fri, Mar 12, 2010 at 11:48 AM, < dvpatterson@... > wrote:

Just stumbled across this at Sparkfun:
http://www.sparkfun.com/commerce/product_info.php?products_id=9689

It's an air quality sensor by Sharp designed to detect dust and smoke; it looks like it would be fairly easy to integrate into most payloads, and could provide some interesting data, especially if historical data could be archived. Forest fire smoke plume detection and characterization strikes me as an obvious application... the link to the datasheet is on the Sparkfun page; any other ideas?

-David

--
Onwards and Upwards,
Paul

6521. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-12 18:02:47 UTC
From: L. Paul Verhage
Topic: 6518 Message: 6521

I just looked over the specs. It produces a voltage that can be read my the ADCs we typically use. It has a small hole for dust to flow through. We would need a fan on that to draw air. I also imagine you would want a funnel to concentrate the air.

Otherwise?

Paul

On Fri, Mar 12, 2010 at 11:59 AM, <dvpatterson@...> wrote:

>
>
> Very true; the application could be two-fold: a long-term observation of
> the statosphere (can we see a spike after a major eruption?), an
> shorter-term observations on the trip up. The biggest limitation that I saw
> was the rated temp. range... only spec'd down to -10C.
>
>
> ----- Original Message -----
> From: "L. Paul Verhage" <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Friday, March 12, 2010 10:52:47 AM GMT -07:00 US/Canada Mountain
> Subject: Re: [GPSL] Dust/Smoke sensor
>
>
>
> Let me look at the link, but one thing to look at is how dust free is the
> stratosphere. Big volcanic eruptions, meteor impacts, and nuclear war can
> drive dust into the stratosphere that can effect weather for years (since
> there's no rain to wash it out).
>
> One thing to look at is how the lower air pressure effects its readings.
>
> Paul
>
> On Fri, Mar 12, 2010 at 11:48 AM, <dvpatterson@...> wrote:
>
>>
>>
>> Just stumbled across this at Sparkfun:
>> http://www.sparkfun.com/commerce/product_info.php?products_id=9689
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>>
>>
>> It's an air quality sensor by Sharp designed to detect dust and smoke; it

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>> could provide some interesting data, especially if historical data could be
>> archived. Forest fire smoke plume detection and characterization strikes me
>> as an obvious application... the link to the datasheet is on the Sparkfun
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>>
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>>
>> -David
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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

6522. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-13 04:13:06 UTC
From: Mike Manes
Topic: 6518 Message: 6522

Hi Guys,

While Norm Kjome was at U Wyo, he flew monthly particulate sensors
for NCAR for several years. The sensors used a strobe light and
two separate photodetectors fitted with Fresnel lenses and optical
bandpass filters to differentiate particulate sizes based on backscatter.
The light path was mostly in the air outside the payload housing.
Obviously, these were night flights to avoid solar flux noise and
detector saturation.

Maybe Norm could pass on some of interesting results that his flights
brought back.

The spec sheet for the Sharp GP2Y1010AU0F sensor does show that it
uses an IR LED, probably with 850 or 1300 nm emission, so that's how
it can distinguish smoke from the larger dust. And yes, it's max
temp range is -10 - +65C, and it's also sensitive to ambient light
and condensation - further, the performance is just speced at 25C,
with a pretty broad zero and sensitivity range.

Might be fun to fly, and it's cheap enough, but I expect that one could
do about as well just looking at the sky :=).

73 de Mike W5VSI

On 3/12/2010 10:48, dvpatterson@... wrote:
>
>
> Just stumbled across this at Sparkfun:
> http://www.sparkfun.com/commerce/product_info.php?products_id=9689
>
> It's an air quality sensor by Sharp designed to detect dust and smoke;
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> could be archived. Forest fire smoke plume detection and
> characterization strikes me as an obvious application... the link to the
> datasheet is on the Sparkfun page; any other ideas?
>
> -David
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

6523. w3BalTrak back online

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-13 18:27:24 UTC
From: Keith Kaiser
Topic: 6523 Message: 6523

Troy has gotten the NSV w3BalTrak prediction page back online.
http://nearspaceventures.com/w3Baltrak/readyget.pl

He asks that someone run a bunch of plots as we're not sure what changes NOAA made to the forecaster.

On the first page, NOAA changed the GFS models from 3 to 2 so there's only 2 buttons, but everything else works the same. On the second page, the pulldown for "date/time nearest your launch date" will look different, but it's generated by NOAA. The difference appears to be be that it starts with the last forecast cycle and it used to start at an arbitrary, fixed time before.

Please give it a try everyone and let me know if you run into something that doesn't look right.

Thanks Troy for doing this for us, the entire ARHAB community says thank you.

6524. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-13 20:58:03 UTC
From: wb8elk@aol.com
Topic: 6518 Message: 6524

Hi Mike...I was at one of Norm's flights where he flew that particulate sensor experiment...I'll see if I can find some photos I took of that.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@gmail.com>
To: GPSL@yahoogroups.com
Cc: dvpatterson@...; Norm Kjome KB7ZJT <kjome@...>
Sent: Fri, Mar 12, 2010 10:13 pm
Subject: Re: [GPSL] Dust/Smoke sensor

Hi Guys,

While Norm Kjome was at U Wyo, he flew monthly particulate sensors for NCAR for several years. The sensors used a strobe light and two separate photodetectors fitted with Fresnel lenses and optical bandpass filters to differentiate particulate sizes based on backscatter. The light path was mostly in the air outside the payload housing. Obviously, these were night flights to avoid solar flux noise and detector saturation.

Maybe Norm could pass on some of interesting results that his flights brought back.

The spec sheet for the Sharp GP2Y1010AU0F sensor does show that it uses an IR LED, probably with 850 or 1300 nm emission, so that's how it can distinguish smoke from the larger dust. And yes, it's max temp range is -10 - +65C, and it's also sensitive to ambient light and condensation - further, the performance is just speced at 25C, with a pretty broad zero and sensitivity range.

Might be fun to fly, and it's cheap enough, but I expect that one could do about as well just looking at the sky :=).

73 de Mike W5VSI

On 3/12/2010 10:48, dvpatterson@... wrote:
>
>
> Just stumbled across this at Sparkfun:
> http://www.sparkfun.com/commerce/product_info.php?products_id=9689
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> It's an air quality sensor by Sharp designed to detect dust and smoke;
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> and could provide some interesting data, especially if historical data
> could be archived. Forest fire smoke plume detection and

> characterization strikes me as an obvious application... the link to the
> datasheet is on the Sparkfun page; any other ideas?
>
> -David
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6525. Photo Challenges for Balloonatics

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-13 23:59:58 UTC
From: Marty Griffin
Topic: 6525 Message: 6525

These are some of the most interesting photos from a birds-eye view. Note the camera equipment at the bottom of the page. The Canon cameras are rigged nicely.

- Marty, EOSS

http://www.noupe.com/inspiration/50-brilliant-birds-eye-photos.html

6526. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-15 00:47:34 UTC
From: L. Paul Verhage
Topic: 6518 Message: 6526

I'm traveling to Florida for training. Bill, if I can, I'll swing by
Huntsville to visit the museum. They do have a rocket museum, right?

Paul

On Sat, Mar 13, 2010 at 3:58 PM, <wb8elk@...> wrote:

>
>
> Hi Mike...I was at one of Norm's flights where he flew that particulate
> sensor experiment...I'll see if I can find some photos I took of that.
>
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: dvpatterson@...; Norm Kjome KB7ZJT <kjome@...>
> Sent: Fri, Mar 12, 2010 10:13 pm
> Subject: Re: [GPSL] Dust/Smoke sensor
>
>
> Hi Guys,
>
> While Norm Kjome was at U Wyo, he flew monthly particulate sensors
> for NCAR for several years. The sensors used a strobe light and
> two separate photodetectors fitted with Fresnel lenses and optical
> bandpass filters to differentiate particulate sizes based on backscatter.
> The light path was mostly in the air outside the payload housing.
> Obviously, these were night flights to avoid solar flux noise and
> detector saturation.
>
> Maybe Norm could pass on some of interesting results that his flights
> brought back.
>
> The spec sheet for the Sharp GP2Y1010AU0F sensor does show that it
> uses an IR LED, probably with 850 or 1300 nm emission, so that's how
> it can distinguish smoke from the larger dust. And yes, it's max
> temp range is -10 - +65C, and it's also sensitive to ambient light
> and condensation - further, the performance is just speced at 25C,
> with a pretty broad zero and sensitivity range.
>

> Might be fun to fly, and it's cheap enough, but I expect that one could
> do about as well just looking at the sky :=).
>
> 73 de Mike W5VSI
>
> On 3/12/2010 10:48, dvpatterson@... <dvpatterson%40comcast.net>wrote:
> >
> >
> > Just stumbled across this at Sparkfun:
> > http://www.sparkfun.com/commerce/product_info.php?products_id=9689
> >
> > It's an air quality sensor by Sharp designed to detect dust and smoke;
> > it looks like it would be fairly easy to integrate into most payloads,
> > and could provide some interesting data, especially if historical data
> > could be archived. Forest fire smoke plume detection and
> > characterization strikes me as an obvious application... the link to the
> > datasheet is on the Sparkfun page; any other ideas?
> >
> > -David
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Onwards and Upwards,
Paul

6527. Re: [GPSL] Dust/Smoke sensor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-15 04:48:18 UTC
From: Mike Manes
Topic: 6518 Message: 6527

Thanks, Bill,

I was at one as well, but didn't bring my camera - just memories, wot's
left of 'em :=P.

73 de Mike W5VSI

On 3/13/2010 13:58, wb8elk@... wrote:
>
>
> Hi Mike...I was at one of Norm's flights where he flew that particulate
> sensor experiment...I'll see if I can find some photos I took of that.
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: dvpatterson@...; Norm Kjome KB7ZJT <kjome@...>
> Sent: Fri, Mar 12, 2010 10:13 pm
> Subject: Re: [GPSL] Dust/Smoke sensor
>
> Hi Guys,
>
> While Norm Kjome was at U Wyo, he flew monthly particulate sensors
> for NCAR for several years. The sensors used a strobe light and
> two separate photodetectors fitted with Fresnel lenses and optical
> bandpass filters to differentiate particulate sizes based on backscatter.
> The light path was mostly in the air outside the payload housing.
> Obviously, these were night flights to avoid solar flux noise and
> detector saturation.
>
> Maybe Norm could pass on some of interesting results that his flights
> brought back.
>
> The spec sheet for the Sharp GP2Y1010AU0F sensor does show that it
> uses an IR LED, probably with 850 or 1300 nm emission, so that's how
> it can distinguish smoke from the larger dust. And yes, it's max
> temp range is -10 - +65C, and it's also sensitive to ambient light
> and condensation - further, the performance is just speced at 25C,
> with a pretty broad zero and sensitivity range.
>
> Might be fun to fly, and it's cheap enough, but I expect that one could

> do about as well just looking at the sky :=).
>
> 73 de Mike W5VSI
>
> On 3/12/2010 10:48, dvpatterson@...
> <mailto:dvpatterson%40comcast.net> wrote:
> >
> >
> > Just stumbled across this at Sparkfun:
> > http://www.sparkfun.com/commerce/product_info.php?products_id=9689
> <http://www.sparkfun.com/commerce/product_info.php?products_id=9689>
> >
> > It's an air quality sensor by Sharp designed to detect dust and smoke;
> > it looks like it would be fairly easy to integrate into most payloads,
> > and could provide some interesting data, especially if historical data
> > could be archived. Forest fire smoke plume detection and
> > characterization strikes me as an obvious application... the link to the
> > datasheet is on the Sparkfun page; any other ideas?
> >
> > -David
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6528. Re: [GPSL] w3BalTrak back online

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-15 12:03:05 UTC
From: BASE
Topic: 6523 Message: 6528

Troy and Keith,

The online version appears to be working. I've made several runs since Saturday.

One minor typo, the 3hr GFS is available from 0 to 180 hours (not 84 as shown on the interface panel).

Thanks,
Howard

--- On Sat, 3/13/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@...>
Subject: [GPSL] w3BalTrak back online
To: GPSL@yahoogroups.com, "Troy Campbell" <tcampbell@...>
Cc: "Jay Schinkel" <jayschinkel@...>, "Eric L Wang" <elwang@...>, justin@justinhamel.com, James.Kennon@..., gps_greg@..., "Jeff Dailey" <jfdailey@...>, "Trey_Fox" <treyfox33@...>, "Andrew Klass" <ivegotklas@gmail.com>, "gandlent" <gandlent@...>, owenx115@..., "Deb Kaiser" <dlkaiser@...>, "Paul Verhage" <nearsys@...>, nearspaceventures@yahoogroups.com
Date: Saturday, March 13, 2010, 1:27 PM

Troy has gotten the NSV w3BalTrak prediction page back online. http://nearspaceven tures.com/ w3Baltrak/ readyget. pl

He asks that someone run a bunch of plots as we're not sure what changes NOAA made to the forecaster.

On the first page, NOAA changed the GFS models from 3 to 2 so there's only 2 buttons, but everything else works the same. On the second page, the pulldown for "date/time nearest your launch date" will look different, but it's generated by NOAA. The difference appears to be be that it starts with the last forecast cycle and it used to start at an arbitrary, fixed time before.

Please give it a try everyone and let me know if you run into something that doesn't look right.

Thanks Troy for doing this for us, the entire ARHAB community says thank you.

6529. Huntsville rocket museum

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-15 12:36:41 UTC
From: Mark Caviezel
Topic: 6529 Message: 6529

Paul:
Huntsville does indeed have a great rocket museum. There is a Saturn 5 on horizontal static display, a Saturn 5 mockup on vertical display, an H1 engine, a sectioned RL-10 engine, a composite fiber wrapped tank from Skylab that survived the re-entry flight, an SSME, a Centaur G-prime upperstage and my personal favorite, one of the 'balloon tank' Atlas rockets, I think it is an Atlas G, on static display. The Atlas G leaks a little bit and there is an old air compressor that kicks on periodically to keep it pressurized with air.

I find it interesting that the stainless steel balloon tank Atlas has been replaced in modern rockets with lower performance isogrid aluminum propellant tanks.

best

- Mark ng0x

6530. BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 00:06:48 UTC
From: Pete Lilja
Topic: 6530 Message: 6530

I've been trying to run some flight sims for a HAB we have planned for this Thursday and have been getting widely crazy results.

I dunno if I can attach files to this email showing screen shots but I am launching from NE Iowa at 42.7137, 092.6347 with a 1200 fpm ascent and descent with a starting elevation of 900 feet and using ALO as the Wx station. for the date of 2010-03-18 at 08:00:00 hours. Burst altitude 95,000'.

The predicted flight path ascends SE (as expected) then darts in a *straight * line *NW* at about 70,000' (best guess) until and ends with a normal looking final descent. It is really weird. I've never seen this before and am wondering what's up.

Below is the pasted data for the sim if that helps.

Thanks

Pete
KC0GPB

File start time : 10 3 15 18 0
File ending time: 10 3 23 6 0
Chosen date in meteorological file: 10 3
15 18

YR: 2010 MON: 03 DAY: 15 HOUR: 18 AT POSITION: 268.6 133.6
LAT.: 42.55 LON.: -92.40 ELEV: 268 m
PRSS: 0.9868E+03
MSLP: 0.1024E+04
TPP6: 0.0000E+00
UMOF: -0.1656E-02
VMOF: 0.2207E+00
SHTF: 0.5780E+02
DSWF: 0.2698E+03
RH2M: 0.7496E+02
U10M: 0.4712E+00
V10M: -0.3760E+01
T02M: 0.2854E+03
TCLD: 0.8864E+02
SHGT: 0.3149E+03
CAPE: 0.0000E+00
CINH: 0.0000E+00
LISD: 0.2796E+03
LIB4: 0.6481E+01
PBLH: 0.8046E+03

PRESS HGT(MSL) TEMP DEW PT WND DIR WND SPD
HPA M C C DEG M/S
E = Estimated Surface Height

987. 315. 12.3 8.0 352.9 3.8
975. 408. 10.5 6.5 354.1 4.7
950. 624. 8.5 5.8 356.2 4.9
925. 844. 6.8 5.0 3.5 5.1
900. 1068. 5.3 3.7 13.6 5.7
850. 1535. 3.8 -4.6 26.6 7.5
800. 2025. 0.9 -8.4 23.9 6.5
750. 2540. -2.2 -12.6 17.9 4.9
700. 3085. -4.6 -22.4 22.8 4.4
650. 3665. -7.4 -36.2 21.1 3.9
600. 4284. -10.9 -36.4 358.4 3.4
550. 4946. -15.3 -29.0 318.7 2.3
500. 5659. -19.8 -35.4 312.1 2.1
450. 6432. -25.3 -45.4 276.2 1.0
400. 7276. -32.2 -43.9 193.6 0.4
350. 8201. -40.6 -43.2 279.2 3.2
300. 9230. -49.2 -50.1 276.9 6.9
250. 10400. -58.4 -58.7 286.8 6.3
200. 11781. -63.5 -65.4 331.4 4.0
150. 13578. -55.4 -273.1 308.6 3.4
100. 16158. -56.2 -273.1 275.6 5.3
50. 20509. -59.7 -133.7 286.9 3.5
20. 26163. -61.5 -273.1 314.1 6.1

hysplit.t18z.gfsf
Lat/Lon/Elev: 42.55 -92.40 268m
E = Estimated Surface Height

========Mean Sea Level Pressure=====
FHR: 0.
MSLP 1024.

========Temperature Deg C=====
Hmsl/FHR: 0.
Mdl sfc 12.3
315. 12.3
408. 10.5
624. 8.5
844. 6.8
1068. 5.3
1535. 3.8
2025. 0.9
2540. -2.2
3085. -4.6
3665. -7.4
4284. -10.9
4946. -15.3
5659. -19.8

6432. -25.3
7276. -32.2
8201. -40.6
9230. -49.2
10400. -58.4
11781. -63.5
13578. -55.4
16158. -56.2
20509. -59.7
26163. -61.5

========Relative Humidity========
Hmsl/FHR: 0.
315. 74.8
408. 76.5
624. 83.0
844. 87.9
1068. 89.1
1535. 54.7
2025. 50.2
2540. 45.5
3085. 24.2
3665. 8.6
4284. 11.1
4946. 31.2
5659. 25.1
6432. 14.9
7276. 32.3
8201. 76.4
9230. 90.9
10400. 96.9
11781. 79.7
13578. 0.0
16158. 0.0
20509. 0.0
26163. 0.0

========Wind Direction========
Hmsl/FHR: 0.
315. 352.9
408. 354.1
624. 356.2
844. 3.5
1068. 13.6
1535. 26.6
2025. 23.9
2540. 17.9
3085. 22.8
3665. 21.1
4284. 358.4
4946. 318.7

5659. 312.1
6432. 276.2
7276. 193.6
8201. 279.2
9230. 276.9
10400. 286.8
11781. 331.4
13578. 308.6
16158. 275.6
20509. 286.9
26163. 314.1

========Wind Speed m/s=========
Hmsl/FHR: 0.
315. 3.8
408. 4.7
624. 4.9
844. 5.1
1068. 5.7
1535. 7.5
2025. 6.5
2540. 4.9
3085. 4.4
3665. 3.9
4284. 3.4
4946. 2.3
5659. 2.1
6432. 1.0
7276. 0.4
8201. 3.2
9230. 6.9
10400. 6.3
11781. 4.0
13578. 3.4
16158. 5.3
20509. 3.5
26163. 6.1

Text Results <http://www.ready.noaa.gov/readyout/77107311_TXTPROF.TXT>

6531. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 00:55:13 UTC
From: Keith Kaiser
Topic: 6530 Message: 6531

I put in your launch data and ran it, this is what I got;
http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl

When I put in the data below I got the picture you spoke of....but hey the weather changes all the time.

On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:

> File start time : 10 3 15 18 0
>
> File ending time: 10 3 23 6 0
> Chosen date in meteorological file: 10 3 15 18
>
> YR: 2010 MON: 03 DAY: 15 HOUR: 18 AT POSITION: 268.6 133.6 LAT.: 42.55 LON.: -92.40 ELEV: 268 m
>
> PRSS: 0.9868E+03
> MSLP: 0.1024E+04
> TPP6: 0.0000E+00
> UMOF: -0.1656E-02
> VMOF: 0.2207E+00
> SHTF: 0.5780E+02
> DSWF: 0.2698E+03
> RH2M: 0.7496E+02
> U10M: 0.4712E+00
> V10M: -0.3760E+01
>
> T02M: 0.2854E+03
> TCLD: 0.8864E+02
> SHGT: 0.3149E+03
> CAPE: 0.0000E+00
> CINH: 0.0000E+00
> LISD: 0.2796E+03
> LIB4: 0.6481E+01
> PBLH: 0.8046E+03
>
> PRESS HGT(MSL) TEMP DEW PT WND DIR WND SPD
>
> HPA M C C DEG M/S
> E = Estimated Surface Height
>
> 987. 315. 12.3 8.0 352.9 3.8
> 975. 408. 10.5 6.5 354.1 4.7
> 950. 624. 8.5 5.8 356.2 4.9
>
> 925. 844. 6.8 5.0 3.5 5.1

> 900. 1068. 5.3 3.7 13.6 5.7
> 850. 1535. 3.8 -4.6 26.6 7.5
> 800. 2025. 0.9 -8.4 23.9 6.5
> 750. 2540. -2.2 -12.6 17.9 4.9
>
> 700. 3085. -4.6 -22.4 22.8 4.4
> 650. 3665. -7.4 -36.2 21.1 3.9
> 600. 4284. -10.9 -36.4 358.4 3.4
> 550. 4946. -15.3 -29.0 318.7 2.3
> 500. 5659. -19.8 -35.4 312.1 2.1
>
> 450. 6432. -25.3 -45.4 276.2 1.0
> 400. 7276. -32.2 -43.9 193.6 0.4
> 350. 8201. -40.6 -43.2 279.2 3.2
> 300. 9230. -49.2 -50.1 276.9 6.9
> 250. 10400. -58.4 -58.7 286.8 6.3
>
> 200. 11781. -63.5 -65.4 331.4 4.0
> 150. 13578. -55.4 -273.1 308.6 3.4
> 100. 16158. -56.2 -273.1 275.6 5.3
> 50. 20509. -59.7 -133.7 286.9 3.5
> 20. 26163. -61.5 -273.1 314.1 6.1
>
>
> hysplit.t18z.gfsf
> Lat/Lon/Elev: 42.55 -92.40 268m
> E = Estimated Surface Height
>
> ========Mean Sea Level Pressure=====
> FHR: 0.
> MSLP 1024.
>
>
> ========Temperature Deg C=====
> Hmsl/FHR: 0.
> Mdl sfc 12.3
> 315. 12.3
> 408. 10.5
> 624. 8.5
> 844. 6.8
> 1068. 5.3
> 1535. 3.8
> 2025. 0.9
> 2540. -2.2
> 3085. -4.6
>
> 3665. -7.4
> 4284. -10.9
> 4946. -15.3
> 5659. -19.8

> 6432. -25.3
> 7276. -32.2
> 8201. -40.6
> 9230. -49.2
> 10400. -58.4
> 11781. -63.5
> 13578. -55.4
> 16158. -56.2
> 20509. -59.7
>
> 26163. -61.5
>
> ========Relative Humidity========
> Hmsl/FHR: 0.
> 315. 74.8
> 408. 76.5
> 624. 83.0
> 844. 87.9
> 1068. 89.1
> 1535. 54.7
> 2025. 50.2
> 2540. 45.5
>
> 3085. 24.2
> 3665. 8.6
> 4284. 11.1
> 4946. 31.2
> 5659. 25.1
> 6432. 14.9
> 7276. 32.3
> 8201. 76.4
> 9230. 90.9
> 10400. 96.9
> 11781. 79.7
> 13578. 0.0
> 16158. 0.0
>
> 20509. 0.0
> 26163. 0.0
>
> ========Wind Direction========
> Hmsl/FHR: 0.
> 315. 352.9
> 408. 354.1
> 624. 356.2
> 844. 3.5
> 1068. 13.6
> 1535. 26.6
> 2025. 23.9
> 2540. 17.9

>
> 3085. 22.8
> 3665. 21.1
> 4284. 358.4
> 4946. 318.7
> 5659. 312.1
> 6432. 276.2
> 7276. 193.6
> 8201. 279.2
> 9230. 276.9
> 10400. 286.8
> 11781. 331.4
> 13578. 308.6
> 16158. 275.6
>
> 20509. 286.9
> 26163. 314.1
>
> ========Wind Speed m/s=========
> Hmsl/FHR: 0.
> 315. 3.8
> 408. 4.7
> 624. 4.9
> 844. 5.1
> 1068. 5.7
> 1535. 7.5
> 2025. 6.5
>
> 2540. 4.9
> 3085. 4.4
> 3665. 3.9
> 4284. 3.4
> 4946. 2.3
> 5659. 2.1
> 6432. 1.0
> 7276. 0.4
> 8201. 3.2
> 9230. 6.9
> 10400. 6.3
> 11781. 4.0
> 13578. 3.4
>
> 16158. 5.3
> 20509. 3.5
> 26163. 6.1

6532. Re: [Balloon_Sked] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 01:04:45 UTC
From: BASE
Topic: 6530 Message: 6532

Dear Pete and James,

I am seeing the same thing on our Thursday predictions for a flight in Indiana. Flight at 15 UTC on 18 Mar has SW reversal and 18 UTC and 21 UTC show the northwest jag that you describe. As James just said, it is that last data line that is causing the dart and it is in the GFS models.

Run the Cambridge model with 5 m/s ascent (1000 ft/min)

http://www.srcf.ucam.org/~cuspaceflight/ predict/ index.php

and you'll see the difference.

I have encountered similar flight paths in mid-summer and had one flight like this in April 2008.

Personally, the difference in the landing location can put me into very heavily forested areas in southern Indiana. I still don't see any evidence of this reverse jet in the actual sounding balloon data (at least as of 12 Z today from ILX).

Tomorrow will be an interesting day to watch both the models and the winds.

Howard

--- On Mon, 3/15/10, Pete Lilja <plilja@...> wrote:

From: Pete Lilja <plilja@...>
Subject: [Balloon_Sked] BalTrak Troubles?
To: "gpsl" <GPSL@yahoogroups.com>, Balloon_Sked@yahoogroups.com
Date: Monday, March 15, 2010, 8:06 PM

I've been trying to run some flight sims for a HAB we have planned for this Thursday and have been getting widely crazy results.

I dunno if I can attach files to this email showing screen shots but I am launching from NE Iowa at 42.7137, 092.6347 with a 1200 fpm ascent and descent with a starting elevation of 900 feet and using ALO as the Wx station. for the date of 2010-03-18 at 08:00:00 hours. Burst altitude 95,000'.

The predicted flight path ascends SE (as expected) then darts in a straight line NW at about 70,000' (best guess) until and ends with a normal looking final descent. It is really weird. I've never seen this before and am wondering what's up.

Below is the pasted data for the sim if that helps.

Thanks

Pete
KC0GPB

File start time : 10 3 15 18 0

File ending time: 10 3 23 6 0
Chosen date in meteorological file: 10 3 15 18

YR: 2010 MON: 03 DAY: 15 HOUR: 18 AT POSITION: 268.6 133.6 LAT.: 42.55 LON.: -92.40 ELEV: 268 m

PRSS: 0.9868E+03
MSLP: 0.1024E+04
TPP6: 0.0000E+00
UMOF: -0.1656E-02
VMOF: 0.2207E+00
SHTF: 0.5780E+02
DSWF: 0.2698E+03
RH2M: 0.7496E+02
U10M: 0.4712E+00
V10M: -0.3760E+01

T02M: 0.2854E+03
TCLD: 0.8864E+02
SHGT: 0.3149E+03
CAPE: 0.0000E+00
CINH: 0.0000E+00
LISD: 0.2796E+03
LIB4: 0.6481E+01
PBLH: 0.8046E+03

PRESS HGT(MSL) TEMP DEW PT WND DIR WND SPD

HPA M C C DEG M/S
E = Estimated Surface Height

987. 315. 12.3 8.0 352.9 3.8
975. 408. 10.5 6.5 354.1 4.7
950. 624. 8.5 5.8 356.2 4.9

925. 844. 6.8 5.0 3.5 5.1
900. 1068. 5.3 3.7 13.6 5.7
850. 1535. 3.8 -4.6 26.6 7.5
800. 2025. 0.9 -8.4 23.9 6.5
750. 2540. -2.2 -12.6 17.9 4.9

700. 3085. -4.6 -22.4 22.8 4.4
650. 3665. -7.4 -36.2 21.1 3.9
600. 4284. -10.9 -36.4 358.4 3.4
550. 4946. -15.3 -29.0 318.7 2.3
500. 5659. -19.8 -35.4 312.1 2.1

450. 6432. -25.3 -45.4 276.2 1.0
400. 7276. -32.2 -43.9 193.6 0.4
350. 8201. -40.6 -43.2 279.2 3.2
300. 9230. -49.2 -50.1 276.9 6.9
250. 10400. -58.4 -58.7 286.8 6.3

200. 11781. -63.5 -65.4 331.4 4.0
150. 13578. -55.4 -273.1 308.6 3.4
100. 16158. -56.2 -273.1 275.6 5.3
50. 20509. -59.7 -133.7 286.9 3.5
20. 26163. -61.5 -273.1 314.1 6.1

hysplit.t18z. gfsf
Lat/Lon/Elev: 42.55 -92.40 268m
E = Estimated Surface Height

========Mean Sea Level Pressure==== =
FHR: 0.
MSLP 1024.

========Temperature Deg C=====
Hmsl/FHR: 0.
Mdl sfc 12.3
315. 12.3
408. 10.5
624. 8.5
844. 6.8
1068. 5.3
1535. 3.8
2025. 0.9
2540. -2.2
3085. -4.6

3665. -7.4
4284. -10.9
4946. -15.3
5659. -19.8
6432. -25.3
7276. -32.2
8201. -40.6
9230. -49.2
10400. -58.4
11781. -63.5
13578. -55.4
16158. -56.2
20509. -59.7

26163. -61.5

========Relative Humidity==== ====
Hmsl/FHR: 0.
315. 74.8
408. 76.5
624. 83.0
844. 87.9
1068. 89.1
1535. 54.7
2025. 50.2
2540. 45.5

3085. 24.2
3665. 8.6
4284. 11.1
4946. 31.2
5659. 25.1
6432. 14.9
7276. 32.3
8201. 76.4
9230. 90.9
10400. 96.9
11781. 79.7
13578. 0.0
16158. 0.0

20509. 0.0
26163. 0.0

========Wind Direction=== =====
Hmsl/FHR: 0.
315. 352.9
408. 354.1
624. 356.2
844. 3.5
1068. 13.6
1535. 26.6
2025. 23.9
2540. 17.9

3085. 22.8
3665. 21.1
4284. 358.4
4946. 318.7
5659. 312.1
6432. 276.2
7276. 193.6
8201. 279.2
9230. 276.9
10400. 286.8
11781. 331.4
13578. 308.6
16158. 275.6

20509. 286.9
26163. 314.1

========Wind Speed m/s=========
Hmsl/FHR: 0.
315. 3.8
408. 4.7
624. 4.9
844. 5.1
1068. 5.7

1535. 7.5
2025. 6.5

2540. 4.9
3085. 4.4
3665. 3.9
4284. 3.4
4946. 2.3
5659. 2.1
6432. 1.0
7276. 0.4
8201. 3.2
9230. 6.9
10400. 6.3
11781. 4.0
13578. 3.4

16158. 5.3
20509. 3.5
26163. 6.1

Text Results

6533. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 01:40:09 UTC
From: J DeMeyer
Topic: 6530 Message: 6533
Attachments: 2 described; binary payloads are missing from this source WARC

Hello Pete!

I am developing an add-in for MapPoint which predicts, reviews, and tracks balloon flights. I entered your information and the add-in provided the attached information. The Prediction function creates three flight paths at different ascent rates using the READY data. It creates three more flight paths (also at different ascent rates) using the READY data and up to your estimated burst of 95,000.

I didn't see anything odd however I may be using a newer set of data. I have seen predictions with the path you saw and the flight followed the predicted path. The high altitude wind seems to go in a different direction.

Take a look and let me know what you think! I expect my add-in will be ready near the end of the month.

Joe
KD8EYH
www.surfingsatellites.org

From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups.com>; Balloon_Sked@yahoogroups.com
Sent: Mon, March 15, 2010 8:06:48 PM
Subject: [GPSL] BalTrak Troubles?

I've been trying to run some flight sims for a HAB we have planned for this Thursday and have been getting widely crazy results.

I dunno if I can attach files to this email showing screen shots but I am launching from NE Iowa at 42.7137, 092.6347 with a 1200 fpm ascent and descent with a starting elevation of 900 feet and using ALO as the Wx station. for the date of 2010-03-18 at 08:00:00 hours. Burst altitude 95,000'.

The predicted flight path ascends SE (as expected) then darts in a straight line NW at about 70,000' (best guess) until and ends with a normal looking final descent. It is really weird. I've never seen this before and am wondering what's up.

Below is the pasted data for the sim if that helps.

Thanks

Pete
KC0GPB

File start time : 10 3 15 18 0

File ending time: 10 3 23 6 0
Chosen date in meteorological file: 10 3 15 18

YR: 2010 MON: 03 DAY: 15 HOUR: 18 AT POSITION: 268.6 133.6 LAT.: 42.55 LON.: -92.40 ELEV: 268 m

PRSS: 0.9868E+03
MSLP: 0.1024E+04
TPP6: 0.0000E+00
UMOF: -0.1656E-02
VMOF: 0.2207E+00
SHTF: 0.5780E+02
DSWF: 0.2698E+03
RH2M: 0.7496E+02
U10M: 0.4712E+00
V10M: -0.3760E+01

T02M: 0.2854E+03
TCLD: 0.8864E+02
SHGT: 0.3149E+03
CAPE: 0.0000E+00
CINH: 0.0000E+00
LISD: 0.2796E+03
LIB4: 0.6481E+01
PBLH: 0.8046E+03

PRESS HGT(MSL) TEMP DEW PT WND DIR WND SPD

HPA M C C DEG M/S
E = Estimated Surface Height

987. 315. 12.3 8.0 352.9 3.8
975. 408. 10.5 6.5 354.1 4.7
950. 624. 8.5 5.8 356.2 4.9

925. 844. 6.8 5.0 3.5 5.1
900. 1068. 5.3 3.7 13.6 5.7
850. 1535. 3.8 -4.6 26.6 7.5
800. 2025. 0.9 -8.4 23.9 6.5
750. 2540. -2.2 -12.6 17.9 4.9

700. 3085. -4.6 -22.4 22.8 4.4
650. 3665. -7.4 -36.2 21.1 3.9
600. 4284. -10.9 -36.4 358.4 3.4
550. 4946. -15.3 -29.0 318.7 2.3
500. 5659. -19.8 -35.4 312.1 2.1

450. 6432. -25.3 -45.4 276.2 1.0
400. 7276. -32.2 -43.9 193.6 0.4
350. 8201. -40.6 -43.2 279.2 3.2
300. 9230. -49.2 -50.1 276.9 6.9
250. 10400. -58.4 -58.7 286.8 6.3

200. 11781. -63.5 -65.4 331.4 4.0
150. 13578. -55.4 -273.1 308.6 3.4
100. 16158. -56.2 -273.1 275.6 5.3
50. 20509. -59.7 -133.7 286.9 3.5
20. 26163. -61.5 -273.1 314.1 6.1

hysplit.t18z. gfsf
Lat/Lon/Elev: 42.55 -92.40 268m
E = Estimated Surface Height

========Mean Sea Level Pressure==== =
FHR: 0.
MSLP 1024.

========Temperature Deg C=====
Hmsl/FHR: 0.
Mdl sfc 12.3
315. 12.3
408. 10.5
624. 8.5
844. 6.8
1068. 5.3
1535. 3.8
2025. 0.9
2540. -2.2
3085. -4.6

3665. -7.4
4284. -10.9
4946. -15.3
5659. -19.8
6432. -25.3
7276. -32.2
8201. -40.6
9230. -49.2
10400. -58.4
11781. -63.5
13578. -55.4
16158. -56.2
20509. -59.7

26163. -61.5

========Relative Humidity==== ====
Hmsl/FHR: 0.
315. 74.8
408. 76.5
624. 83.0
844. 87.9
1068. 89.1
1535. 54.7
2025. 50.2
2540. 45.5

3085. 24.2
3665. 8.6
4284. 11.1
4946. 31.2
5659. 25.1
6432. 14.9
7276. 32.3
8201. 76.4
9230. 90.9
10400. 96.9
11781. 79.7
13578. 0.0
16158. 0.0

20509. 0.0
26163. 0.0

========Wind Direction=== =====
Hmsl/FHR: 0.
315. 352.9
408. 354.1
624. 356.2
844. 3.5
1068. 13.6
1535. 26.6
2025. 23.9
2540. 17.9

3085. 22.8
3665. 21.1
4284. 358.4
4946. 318.7
5659. 312.1
6432. 276.2
7276. 193.6
8201. 279.2
9230. 276.9
10400. 286.8
11781. 331.4
13578. 308.6
16158. 275.6

20509. 286.9
26163. 314.1

========Wind Speed m/s=========
Hmsl/FHR: 0.
315. 3.8
408. 4.7
624. 4.9
844. 5.1
1068. 5.7

1535. 7.5
2025. 6.5

2540. 4.9
3085. 4.4
3665. 3.9
4284. 3.4
4946. 2.3
5659. 2.1
6432. 1.0
7276. 0.4
8201. 3.2
9230. 6.9
10400. 6.3
11781. 4.0
13578. 3.4

16158. 5.3
20509. 3.5
26163. 6.1
Text Results

6534. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 01:47:13 UTC
From: HarryM
Topic: 6530 Message: 6534

I just ran a prediction using SWO GFS 0600 hrs for a flight from Stillwater, Ok and I don't see any annomalies with the flight prediction up to 100k.

Harry
KC5TRB

6535. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 02:02:00 UTC
From: Mark Conner
Topic: 6530 Message: 6535

I have been seeing oddities as well at high altitudes. I think something is using wrong wind information above the 20mb level when doing a full cut-and-paste per the directions.

Note that Pete's highest wind value (20mb, about 85,000 ft) is from the NW (314 deg) at 6 m/s. That should push the track towards the southeast at a relatively slow pace above 85,000 ft. Instead, it's going towards the northeast at a high rate of speed.

There is nothing in the wind forecast from NOAA that should cause a jog in the track like this.

So far, I have been able to mitigate this by pasting only down to the 20mb line, ignoring all text including and after 'hysplit." blah blah blah. Don't know yet if that's a 100% fix.

73 de Mark N9XTN

On Mon, Mar 15, 2010 at 18:55, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I put in your launch data and ran it, this is what I got;
> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl
>
> When I put in the data below I got the picture you spoke of....but hey the
> weather changes all the time.
>
> On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:
>
>

6536. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 12:10:19 UTC
From: BASE
Topic: 6530 Message: 6536

This morning I ran the NSV online program as directed, copying the entire file and received a bad track for the flight above 26 km.?

When I only submitted the data up to and including the combined data table, as Mark suggested, I saw the expected flight path (which is also seen on the Cambridge U Spaceflight Landing prediction).

That's the good news. The bad news for me is the anticipated landing site, with a campus launch, is in the Morgan-Monroe State Forest.? If I can't work around the flight path, I may need to have Harry come up from Oklahoma and help with a tree recovery!

Looks like we may need to go on the road for our launch.?

Howard

--- On Mon, 3/15/10, Mark Conner wrote:

From: Mark Conner
Subject: Re: [GPSL] BalTrak Troubles?
To: GPSL@yahoogroups.com
Date: Monday, March 15, 2010, 10:02 PM

?

I have been seeing oddities as well at high altitudes.? I think something is using wrong wind information above the 20mb level when doing a full cut-and-paste per the directions.

Note that Pete's highest wind value (20mb, about 85,000 ft) is from the NW (314 deg) at 6 m/s.? That should push the track towards the southeast at a relatively slow pace above 85,000 ft.?; Instead, it's going towards the northeast at a high rate of speed.

There is nothing in the wind forecast from NOAA that should cause a jog in the track like this.

So far, I have been able to mitigate this by pasting only down to the 20mb line, ignoring all text including and after 'hysplit." blah blah blah.? Don't know yet if that's a 100% fix.

73 de Mark N9XTN

On Mon, Mar 15, 2010 at 18:55, Keith Kaiser <wa0tjt@gmail. com> wrote:

I put in your launch data and ran it, this is what I got;?http://nearspaceven tures.com/ w3Baltrak/ CurrMissionPlot. pl (http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl)

When I put in the data below I got the picture you spoke of....but hey the weather changes all the time.

On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:

6537. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 13:34:08 UTC
From: HarryM
Topic: 6530 Message: 6537

Sounds like a road trip to me! I'll be more than happy to loan you my low altitude recovery back pack! :) 73 Harry That's the good news.? The bad news for me is the anticipated landing site, with a campus launch, is in the Morgan-Monroe State Forest.? If I can't work around the flight path, I may need to have Harry come up from Oklahoma and help with a tree recovery!

Looks like we may need to go on the road for our launch.

Howard

--- On Mon,

6538. Supersonic jump from balloon planned

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 14:00:03 UTC
From: Mark Conner
Topic: 6538 Message: 6538

New York Times
March 16, 2010
Pg. D1

Findings

A Supersonic Jump, From 23 Miles In The Air

By John Tierney

Ordinarily, Felix Baumgartner would not need a lot of practice in the science of falling.

He has jumped off two of the tallest buildings in the world, as well as the statue of Christ in Rio de Janeiro (a 95-foot leap for which he claimed a low-altitude record for parachuting). He has sky-dived across the English Channel. He once plunged into the black void of a 623-foot-deep cave, which he formerly considered the most difficult jump of his career.

But now Fearless Felix, as his fans call him, has something more difficult on the agenda: jumping from a helium balloon in the stratosphere at least 120,000 feet above Earth. Within about half a minute, he figures, he would be going 690 miles per hour and become the first skydiver to break the speed of sound. After a free fall lasting five and a half minutes, his parachute would open and land him about 23 miles below the balloon.

At least, that's the plan, although no one really knows what the shock wave will do to his body as it exceeds the speed of sound. The jump, expected sometime this year, would break one of the most venerable aerospace records. For half a century, no one has surpassed (one person died trying) the altitude record set by Joe Kittinger as part of an Air Force program called Project Excelsior.

In 1960, Mr. Kittinger, then a 32-year-old Air Force pilot, jumped from a balloon 102,800 feet above the New Mexico desert. Today, at 81, Mr. Kittinger is a retired colonel and part of the Red Bull Stratos team working on Mr. Baumgartner's jump, which is being financed by the energy-drink company.

"For 50 years," Mr. Kittinger said, "I've gotten phone calls from all over the world, people wanting to break my record — one a month, sometimes two a month. But I stayed away from them because they didn't have any idea what the challenge was. What attracted me to Red Bull was their methodological approach to safety and to providing scientific benefits."

More than three dozen veterans of NASA, the Air Force and the aerospace industry have been working for three years to plan the jump, build a balloon

and pressurized capsule, and customize an astronaut’s suit for Mr. Baumgartner. Besides aiming at records, they’re doing physiological research and developing procedures for future astronauts to survive a loss of cabin pressure or an emergency bailout in the stratosphere.

One of the chief concerns has been to avoid the problem that almost killed Mr. Kittinger during Project Excelsior. He was supposed to be stabilized during his fall by a small drogue parachute, but on one training jump in 1959 it did not open because the cord got tangled around his neck.

As a result, Mr. Kittinger’s body went into a spin that reached 120 revolutions per minute as he plummeted more than 60,000 feet. He blacked out and regained consciousness only after his reserve parachute opened automatically about a mile above the ground. When he came to, he later wrote, he first assumed he must have died, but then he spotted the parachute’s canopy above him and made a sudden realization: “I am impossibly, wonderfully *alive*.”

Mr. Baumgartner hopes to remain stable and conscious throughout his longer fall without relying on a drogue parachute. He plans to avoid spinning by adjusting the angle of his body and keeping his arms at his side.

This stabilizing technique would ordinarily be fairly easy for an expert like Mr. Baumgartner, 41, a former paratrooper in the Austrian Special Forces and a veteran of more than 2,500 jumps from planes, cliffs and assorted landmarks. But to survive the stratosphere’s near vacuum and frigid temperatures, he will need a sealed helmet and a pressurized suit.

Would he be able to do midair maneuvers in such a bulky contraption? To find out, Mr. Baumgartner and his team recently went to a wind tunnel in Perris, Calif., near Los Angeles, and put the suit through its paces.

Team members suited up Mr. Baumgartner, turned on the oxygen in his helmet and attached a pack to his chest containing equipment to record his vital signs, track his position using GPS satellites and heat his helmet’s visor to keep it from fogging.

By the time the suit was inflated to its full pressure of three pounds per square inch, he looked like a robotic version of the Incredible Hulk. As he walked stiffly into the wind tunnel, it was easy to see why astronauts lack a certain grace.

But once Mr. Baumgartner was inside, held aloft by air blowing upward at 130 miles per hour, he looked comfortable enough, much to the relief of the engineers. By adjusting his arms and legs, he could shoot up in the tunnel or bring himself down. Most important, with his body angled at 45 degrees to the ground, he could maintain the desired arrowlike stance: head first, arms and legs pointing backward in a V shape called the delta position.

“It was difficult, but it worked,” Mr. Baumgartner said after emerging from the tunnel. “Now I’m confident I can handle the suit in regular free fall as long as we’re not breaking the speed of sound. But as soon as it goes from

subsonic to transonic to supersonic, we don’t know what to expect.”

Plenty of planes have broken the sound barrier, but transonic humans are a mystery, said Art Thompson, the technical project director for the Red Bull Stratos mission, and a former Northrop engineer who worked on the B-2 stealth bomber.

“You can run a lot of models, but with the human body you’re not dealing with a hard surface or a ballistic shape,” Mr. Thompson said. “You’ve got this rounded bulbous helmet, and the shoulders and the feet sticking out, and everything starts to happen at different times. Parts of your body may be going supersonic while others aren’t, causing flutter waves pulling back and forth among the surfaces.”

Could such waves harm the body? Could they create disastrous turbulence?

“We just don’t know what will happen to Felix and the suit when he goes supersonic,” said another Stratos engineer, Mike Todd, who worked on high-altitude suits for the Air Force’s spy-plane pilots with the renowned Skunk Works research division of Lockheed. “Felix could slip right through it, but if half the suit’s supersonic and the other half isn’t, there could be turbulence that knocks him out of control.”

Such risks are one reason why Mr. Kittinger’s record has stood for half a century. Air Force and NASA officials have become understandably reluctant to explain potential mishaps to Congressional committees. (To debate the risks and benefits of this project, go to nytimes.com/tierneylab.)

But private adventurers have more freedom to take their own risks. The Stratos medical director, Dr. Jonathan Clark, who formerly oversaw the health of space shuttle crews at NASA, says that the spirit of this project reminds him of stories from the first days of the space age.

“This is really risky stuff, putting someone up there in that extreme environment and breaking the sound barrier,” Dr. Clark said. “It’s going to be a major technical feat. It’s like early NASA, this heady feeling that we don’t know what we’re up against but we’re going to do everything we can to overcome it.”

6539. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 15:03:34 UTC
From: Pete Lilja
Topic: 6530 Message: 6539

Thanks for all of the input on this.

I reran the sim removing the text below the 'hysplit' and have a more believable flight path. It is, however, quite a bit different than the path predicted by Cambridge U's simulator. Both look plausible in their direction of flight so I'm not sure which to 'believe.'

I'll keep playing around and see what happens through today and tomorrow regarding these sims. The bottom line is this is all fun and that's why I do it.

Pete
KC0GPB

On Mon, Mar 15, 2010 at 9:02 PM, Mark Conner <mconner1@...> wrote:

>
>
> I have been seeing oddities as well at high altitudes. I think something
> is using wrong wind information above the 20mb level when doing a full
> cut-and-paste per the directions.
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> Note that Pete's highest wind value (20mb, about 85,000 ft) is from the NW
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> northeast at a high rate of speed.
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> So far, I have been able to mitigate this by pasting only down to the 20mb
> line, ignoring all text including and after 'hysplit." blah blah blah.
> Don't know yet if that's a 100% fix.
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> 73 de Mark N9XTN
>
>
> On Mon, Mar 15, 2010 at 18:55, Keith Kaiser <wa0tjt@...> wrote:
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>> I put in your launch data and ran it, this is what I got;
>> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl
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>> weather changes all the time.

>>
>> On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:
>>
>>
>
>

6540. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 15:57:29 UTC
From: Keith Kaiser
Topic: 6530 Message: 6540

I'll be interested to hear which performed better. So once we get a few flights under our belts compare back to the various predictions. Lets see whats what....

On Mar 16, 2010, at 11:03 AM, Pete Lilja wrote:

> Thanks for all of the input on this.
>
> I reran the sim removing the text below the 'hysplit' and have a more believable flight path. It is, however, quite a bit different than the path predicted by Cambridge U's simulator. Both look plausible in their direction of flight so I'm not sure which to 'believe.'
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>
>
>
>

6541. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 16:49:47 UTC
From: Mark Conner
Topic: 6530 Message: 6541

There may be differences in horizontal, vertical, and time interpolation of the wind fields being done by the two programs which could affect how to project the balloon's flight. Cambridge might also be using one of the UK Met Office weather models for their wind fields too - that will definitely lead to differences in the track.

73 de Mark N9XTN

On Tue, Mar 16, 2010 at 10:57, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I'll be interested to hear which performed better. So once we get a few
> flights under our belts compare back to the various predictions. Lets see
> whats what....
>
>
> On Mar 16, 2010, at 11:03 AM, Pete Lilja wrote:
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6542. Mini Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 17:31:32 UTC
From: mw@omsrc.com
Topic: 6530 Message: 6542

Hi All,

Around Christmas, I purchased a MUVI brand 640x480 full frame rate mini video camera for our ARBONET flights. It has a strong metal body made for recreational videos, such as skiing or mountain biking. Today came across even a smaller mini video cam for $40.00 less targeting RC cars and aircraft.

Amazing that you can get 4-6 hours of video from such a small, low-weight device at $60.00... The resolution is 640 x 480 so it is not HD, but previous ARBONET flights with 640 x 480 with a fairly large, low frame rate DV cam looked reasonable and lets you capture some of the story about the flight in fair detail.

See the links below:

At Hobbypartz:

http://www.hobbypartz.com/smvicarewfr2.html

And on You Tube:

http://www.youtube.com/watch?v=RhrQ87xfx6A&feature=player_embedded

Best Regards,

--Michael

K5NOT

6543. Re: [GPSL] Mini Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-16 23:27:37 UTC
From: Bruce Coates
Topic: 6530 Message: 6543

Hi Michael

We're planning on flying two similar cameras on our first flight in May. Both were purchased from eBay as "spy" cameras. One is this style (aka chewing gum) and the other is often referred to as a Mini-DV or MD80. Our old 10 frame/sec cameras from gave us video that was good enough to make you lose your lunch after a few minutes of watching. We're hoping that these will be even better. ;-)

73, Bruce and Leigh
VE5BNC and VE5LEE
SABRE - http://ve5aa.dyndns.org/balloon

----- Original Message -----
From: mw@...
To: GPSL@yahoogroups.com
Sent: Tuesday, March 16, 2010 11:31 AM
Subject: [GPSL] Mini Video Camera

Hi All,

Around Christmas, I purchased a MUVI brand 640x480 full frame rate mini video camera for our ARBONET flights. It has a strong metal body made for recreational videos, such as skiing or mountain biking. Today came across even a smaller mini video cam for $40.00 less targeting RC cars and aircraft.

Amazing that you can get 4-6 hours of video from such a small, low-weight device at $60.00... The resolution is 640 x 480 so it is not HD, but previous ARBONET flights with 640 x 480 with a fairly large, low frame rate DV cam looked reasonable and lets you capture some of the story about the flight in fair detail.

See the links below:

At Hobbypartz:

http://www.hobbypartz.com/smvicarewfr2.html

And on You Tube:

http://www.youtube.com/watch?v=RhrQ87xfx6A&feature=player_embedded

Best Regards,

--Michael

K5NOT

6544. Re: [GPSL] Mini Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 00:15:11 UTC
From: Mark Conner
Topic: 6530 Message: 6544

If we can do our flight on the 27th, I'll have a report on the Kodak Zi6's performance. They have been discounted at Office Max for the last 2-3 weeks to about $70-80. The camera can shoot WVGA, 720p/30fps, and 720p/60fps and uses 2 AA lithium batteries - tests so far indicate they'll last plenty long for a typical two-hour mission. Not as small as the chewing-gum-pack cameras but small enough to go on most any payload.

73 de Mark N9XTN
www.nstar.org

On Tue, Mar 16, 2010 at 18:27, Bruce Coates <bruce.coates@sasktel.net>wrote:

> □
>
>
> Hi Michael
>
> We're planning on flying two similar cameras on our first flight in May.
> Both were purchased from eBay as "spy" cameras. One is this style (aka
> chewing gum) and the other is often referred to as a Mini-DV or MD80. Our
> old 10 frame/sec cameras from gave us video that was good enough to make you
> lose your lunch after a few minutes of watching. We're hoping that these
> will be even better. ;-)
>
> 73, Bruce and Leigh
> VE5BNC and VE5LEE
> SABRE - http://ve5aa.dyndns.org/balloon
>
>
>
> ----- Original Message -----
> *From:* mw@...
> *To:* GPSL@yahoogroups.com
> *Sent:* Tuesday, March 16, 2010 11:31 AM
> *Subject:* [GPSL] Mini Video Camera
>
>
>
>
>
> Hi All,
>
> Around Christmas, I purchased a MUVI brand 640x480 full frame rate
> mini video camera for our ARBONET flights. It has a strong metal body
> made for recreational videos, such as skiing or mountain biking. Today
> came across even a smaller mini video cam for $40.00 less targeting RC

> cars and aircraft.
>
> Amazing that you can get 4-6 hours of video from such a small,
> low-weight device at $60.00... The resolution is 640 x 480 so it is
> not HD, but previous ARBONET flights with 640 x 480 with a fairly
> large, low frame rate DV cam looked reasonable and lets you capture
> some of the story about the flight in fair detail.
>
> See the links below:
>
> At Hobbypartz:
>
> http://www.hobbypartz.com/smvicarewfr2.html
>
> And on You Tube:
>
> http://www.youtube.com/watch?v=RhrQ87xfx6A&feature=player_embedded
>
> Best Regards,
>
> --Michael
>
> K5NOT
>
>
>

6545. Re: [GPSL] Mini Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 00:53:20 UTC
From: mw@omsrc.com
Topic: 6530 Message: 6545

I know what you mean! On our last flight the Richardson Wireless Club's payload departed the flight prematurely when their antenna wire broke on the ride down. I looked at the video in detail while it was wildly headed earthbound to see if we could pin a time and maybe see a feature on the land below to help locate it. I was about one hiccup from needing Dramamine after the hour + I took to view and find the break point! :)

--Michael

Quoting Bruce Coates <bruce.coates@...>:

> Hi Michael
>
> We're planning on flying two similar cameras on our first flight in
> May. Both were purchased from eBay as "spy" cameras. One is this
> style (aka chewing gum) and the other is often referred to as a
> Mini-DV or MD80. Our old 10 frame/sec cameras from gave us video
> that was good enough to make you lose your lunch after a few minutes
> of watching. We're hoping that these will be even better. ;-)
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> 73, Bruce and Leigh
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> ----- Original Message -----
> From: mw@...
> To: GPSL@yahoogroups.com
> Sent: Tuesday, March 16, 2010 11:31 AM
> Subject: [GPSL] Mini Video Camera
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> Hi All,
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> Around Christmas, I purchased a MUVI brand 640x480 full frame rate
> mini video camera for our ARBONET flights. It has a strong metal body
> made for recreational videos, such as skiing or mountain biking. Today
> came across even a smaller mini video cam for $40.00 less targeting RC
> cars and aircraft.
>
> Amazing that you can get 4-6 hours of video from such a small,
> low-weight device at $60.00... The resolution is 640 x 480 so it is
> not HD, but previous ARBONET flights with 640 x 480 with a fairly

> large, low frame rate DV cam looked reasonable and lets you capture
> some of the story about the flight in fair detail.
>
> See the links below:
>
> At Hobbypartz:
>
> http://www.hobbypartz.com/smvicarewfr2.html
>
> And on You Tube:
>
> http://www.youtube.com/watch?v=RhrQ87xfx6A&feature=player_embedded
>
> Best Regards,
>
> --Michael
>
> K5NOT
>
>
>

6546. Unlawful to Feed Alligators

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 11:28:10 UTC
From: L. Paul Verhage
Topic: 6546 Message: 6546

That's on the sign outside the patio door where I'm staying for training. Last night there was an alligator in the pond next to the patio. At first it was sunning itself. Later it swam around the pond and stopped about 30 feet away to watch me as I watched it.

Funny that it said, "psst, come here".

--
Onwards and Upwards,
Paul

6547. BASE 41 - 18 March

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 15:23:15 UTC
From: BASE
Topic: 6547 Message: 6547

Dear friends,

After running several predictions, both with GFS and NAM models and actual upper level soundings, BASE announces that we fly tomorrow. Launch will occur as close to 1700 UTC (1 pm Eastern Daylight time) as possible.

Launch site will be from the western end of the North Montgomery School property north of Crawfordsville, Indiana. Primary payload is a set of energy discriminating geiger counters. We will also fly tilt axis sensors and video cameras. Secondary position information via APRS on 144.39 MHz every two minutes using the WIDE2,1 path.

This flight has strong GPSL flavor. The primary balloon is a 1000 gram latex acquired from Zach Clobes. In an effort to avoid trees and populated areas, we will follow the sage wisdom of Mike Manes and "give it a little more gas." Descent will be on a smaller parachute.

Surface winds at launch will be at or above 10 miles per hour. The flight should be short, both in time and distance. Predicted landing after 90 to 100 minutes near North Salem, Indiana.

Thanks for your support,
Howard

6548. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 21:36:08 UTC
From: wb8elk@aol.com
Topic: 6530 Message: 6548

I'm going to do some more test runs tonight and compare them to Balloon Track on my PC....the initial testing I did last weekend showed that the CU prediction site (although the right path and direction) tended to be about 10 to 20 percent too far in landing spot prediction as if the ascent rate was slower, and yes, I'm converting from ft/min to m/s. The online Balloon Track above about 85,000 feet showed a fast westerly path for the top end of the flight path and as a consequence was way off....calculating a peak altitude below about 85,000 feet gave accurate paths. I'll try Mark's fix by leaving off the text after the 20 mbar level and see if that works.

- Bill WB8ELK

-----Original Message-----
From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Tue, Mar 16, 2010 10:03 am
Subject: Re: [GPSL] BalTrak Troubles?

Thanks for all of the input on this.

I reran the sim removing the text below the 'hysplit' and have a more believable flight path. It is, however, quite a bit different than the path predicted by Cambridge U's simulator. Both look plausible in their direction of flight so I'm not sure which to 'believe.'

I'll keep playing around and see what happens through today and tomorrow regarding these sims. The bottom line is this is all fun and that's why I do it.

Pete
KC0GPB

On Mon, Mar 15, 2010 at 9:02 PM, Mark Conner <mconner1@...> wrote:

I have been seeing oddities as well at high altitudes. I think something is using wrong wind information above the 20mb level when doing a full cut-and-paste per the directions.

Note that Pete's highest wind value (20mb, about 85,000 ft) is from the NW (314 deg) at 6 m/s. That should push the track towards the southeast at a relatively slow pace above 85,000 ft. Instead, it's going towards the northeast at a high rate of speed.

There is nothing in the wind forecast from NOAA that should cause a jog in the track like this.

So far, I have been able to mitigate this by pasting only down to the 20mb line, ignoring all text including and after 'hysplit." blah blah blah. Don't know yet if that's a 100% fix.

73 de Mark N9XTN

On Mon, Mar 15, 2010 at 18:55, Keith Kaiser <wa0tjt@...> wrote:

I put in your launch data and ran it, this is what I got;
http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl

When I put in the data below I got the picture you spoke of....but hey the weather changes all the time.

On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:

6549. Re: [GPSL] BalTrak Troubles?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-17 23:44:22 UTC
From: BASE
Topic: 6530 Message: 6549

Mark's fix is working fine for me on the Near Space Ventures online predictor.

I also agree with Bill's assessment of the two programs. The prediction for 1500 ft/min ascent (7.62 m/s) and 1200 ft/min (6.09 m/a) on the Cambridge system lands about one mile from 1200 ft/min ascent and descent rate on the NSV online site.

Howard

--- On Wed, 3/17/10, wb8elk@aol.com <wb8elk@...> wrote:

From: wb8elk@... <wb8elk@...>
Subject: Re: [GPSL] BalTrak Troubles?
To: GPSL@yahoogroups.com
Date: Wednesday, March 17, 2010, 5:36 PM

I'm going to do some more test runs tonight and compare them to Balloon Track on my PC....the initial testing I did last weekend showed that the CU prediction site (although the right path and direction) tended to be about 10 to 20 percent too far in landing spot prediction as if the ascent rate was slower, and yes, I'm converting from ft/min to m/s. The online Balloon Track above about 85,000 feet showed a fast westerly path for the top end of the flight path and as a consequence was way off....calculating a peak altitude below about 85,000 feet gave accurate paths. I'll try Mark's fix by leaving off the text after the 20 mbar level and see if that works.

- Bill WB8ELK

-----Original Message-----

From: Pete Lilja <plilja@...>

To: GPSL@yahoogroups. com

Sent: Tue, Mar 16, 2010 10:03 am

Subject: Re: [GPSL] BalTrak Troubles?

Thanks for all of the input on this.

I reran the sim removing the text below the 'hysplit' and have a more believable flight path. It is, however, quite a bit different than the path predicted by Cambridge U's simulator. Both look plausible in their direction of flight so I'm not sure which to 'believe.'

I'll keep playing around and see what happens through today and tomorrow regarding these sims. The bottom line is this is all fun and that's why I do it.

Pete

KC0GPB

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There is nothing in the wind forecast from NOAA that should cause a jog in the track like this.

So far, I have been able to mitigate this by pasting only down to the 20mb line, ignoring all text including and after 'hysplit." blah blah blah. Don't know yet if that's a 100% fix.

73 de Mark N9XTN

On Mon, Mar 15, 2010 at 18:55, Keith Kaiser <wa0tjt@gmail. com> wrote:

I put in your launch data and ran it, this is what I got; http://nearspaceven tures.com/ w3Baltrak/ CurrMissionPlot. pl

When I put in the data below I got the picture you spoke of....but hey the weather changes all the time.

On Mar 15, 2010, at 8:06 PM, Pete Lilja wrote:

6550. Balloon Tracking program comparison test results

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-18 04:07:55 UTC
From: wb8elk@aol.com
Topic: 6550 Message: 6550

I ran the prediction for this Saturday for my location on the following programs: Online Balloon Track, CU Spaceflight and compared them against my PC based Balloon Track program.

All three are aligned during the ascent stage and match the burst point.....the difference seems to be the way that CU Spaceflight models the parachute descent as their model puts the payload about 8 miles farther downrange than Balloon Track. My comparison test parameters were for 1000 ft/min ascent (5.08 m/s) and 1300 ft/min descent (6.6 m/s) and 102,000 burst altitude. NOTE: to use the CU program, you need to convert ft/min to m/s by multiplying by 0.00508....conversely converting from m/s to ft/min you multiply by 196.85.

However, online Balloon Track will give you an error by putting in a fast westerly track if you run your prediction over the 20 mbar altitude (about 86,000 feet). I would guess that the problem lies with the change NOAA READY has made to their text data output....the difference is that just after the 20 mbar wind data the old data file would say GFSFLL...the new one says hysplit (shown below). There are also a few differences in text at the very end of the file.

The quick fix that seems to work for online Balloon Track is Mark's suggestion to cut and past the wind data only to the 20 mbar point at the first portion of the data file and leave the rest out. The PC version of Balloon Track will work with the full file with no problems.

Old NOAA data format:

150. 13943. -58.6 -77.6 270.0 28.4
100. 16461. -61.9 -273.1 255.9 14.3
50. 20784. -57.4 -273.1 168.5 3.4
20. 26758. -44.1 -273.1 96.1 7.0

GFSFLL
Lat/Lon/Elev: 39.27 -85.90 200m
E = Estimated Surface Height

========Mean Sea Level Pressure=====
FHR: 9.
MSLP 1013.

New NOAA data format:

200. 11818. -56.5 -68.1 245.7 46.4
150. 13650. -54.1 -273.1 250.6 51.9
100. 16213. -60.5 -273.1 246.3 32.7
50. 20485. -62.5 -273.1 261.5 12.2
20. 26274. -51.2 -273.1 261.3 24.5

hysplit.t18z.gfsf
Lat/Lon/Elev: 34.65 -86.77 196m

E = Estimated Surface Height
========Mean Sea Level Pressure=====
FHR: 72.
MSLP 1012.

6551. Troy fixed it....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-18 12:59:15 UTC
From: Keith Kaiser
Topic: 6551 Message: 6551

Troy asked me to let all of you know that he skipped breakfast and w3BalTrak is fixed and "It parses the report correctly now."

You gotta love the man!

Thanks for doing all that work guys especially Bill to track down the issues.

73's

6552. Re: [GPSL] Troy fixed it....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-18 13:11:07 UTC
From: Pete Lilja
Topic: 6551 Message: 6552

It sure does!

And it works the way I like it - closer to home for a recovery for KC0GPB-11
we plan to release in about an hour!

Thanks, Troy!

Pete
KC0GPB

On Thu, Mar 18, 2010 at 7:59 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Troy asked me to let all of you know that he skipped breakfast and
> w3BalTrak is fixed and "It parses the report correctly now."
>
> You gotta love the man!
>
> Thanks for doing all that work guys especially Bill to track down the
> issues.
>
> 73's
>
>

6553. BASE 41 - successfully completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-18 21:50:40 UTC
From: BASE
Topic: 6553 Message: 6553

Dear friends,

BASE 41 went up came down and we brought everything home. Less than five hours and 125 miles on the vehicle for the entire trip.

Only two significant problems.

One - the 144.39 MHz APRS radio had developed some battery problem that was not noticed during the reprogramming and recharge earlier this week. The emergency battery pack that was quickly spliced into the power input failed at a connector to one of the batteries (evidentally at about 25 kft ASL).

Two - the initially filled 1000 gram Kaysam balloon tore apart at the top of the spreader ring just before we tied it off. The steady winds had driven the balloon into a fascinating oscillation pattern. One of my students caught the balloon with his hand, but there was no neck left to tie off. That balloon did serve as a good indicator of the initial launch direction, but we already knew that with the 10+ mile/hour surface winds. A 1200 gram Kaymont was fitted to the flight string and the flight went off after the additional twenty minute delay.

Burst was just under 90 kft ASL and the landing was witnessed by the launch team and a set of construction workers. The foreman retrieved the payloads before I secured permission to enter.

Additional details will be posted. All experiments appeared to work. Now the data analysis begins.

Howard

6554. ATV at GPSL (and beyond??)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-19 12:45:52 UTC
From: BASE
Topic: 6554 Message: 6554

I have committed to flying ATV at Space Jam 4 for the Boy Scouts in Rantoul, Illinois on August 7. Although I have a nice transmitter, I know that I will not have the time to build, and test fly an ATV system before the August date. I do not want to disappoint the Scouts.

Would anyone be willing to fly an ATV system at the GPSL and then let me borrow it for the Scout flight two weeks later? If I could see ATV via balloon in operation, I would have more confidence in the system and my ability to get it to work.

Alternatively, if someone with ATV experience wants to come to Rantoul on the first weekend in August, I know that we'd be able to help you have a great time. The amateur operators in the area were great help during last year's event.

Thanks in advance,
Howard

6555. ARHAB on TV

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-19 18:05:33 UTC
From: Pete Lilja
Topic: 6555 Message: 6555

On February 13th NIXHAB-4 flew from near Rockford, Iowa. Invited along were the local TV weather guys from KIMT-TV in Mason, City, Iowa. Last night they aired their story which can also be seen here: http://www.kimt.com/mediacenter/local.aspx Look on the left side for the obvious link.

Pete (not Greg in the story) although I am in the background
KC0GPB

6556. Re: [Balloon_Sked] ARHAB on TV

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-19 18:14:31 UTC
From: Keith Kaiser
Topic: 6555 Message: 6556

Good going guys....

On Mar 19, 2010, at 1:05 PM, Pete Lilja wrote:

> On February 13th NIXHAB-4 flew from near Rockford, Iowa. Invited along were the local TV weather guys from KIMT-TV in Mason, City, Iowa. Last night they aired their story which can also be seen here: http://www.kimt.com/mediacenter/local.aspx Look on the left side for the obvious link.
>
> Pete (not Greg in the story) although I am in the background
> KC0GPB
>

6557. Re: [GPSL] ATV at GPSL (and beyond??)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-19 21:54:59 UTC
From: wb8elk@aol.com
Topic: 6554 Message: 6557

Hi Howard,

I'll see what I can put together for you for the scouting event. I have several ATV payloads and I can dust off one for you. I'll plan on bringing it to GPSL and may fly it there as well.

- Bill WB8ELK

-----Original Message-----
From: BASE <basedepauw@...>
To: Great Plains Superlaunch <gpsl@yahoogroups.com>
Sent: Fri, Mar 19, 2010 7:45 am
Subject: [GPSL] ATV at GPSL (and beyond??)

I have committed to flying ATV at Space Jam 4 for the Boy Scouts in Rantoul, Illinois on August 7. Although I have a nice transmitter, I know that I will not have the time to build, and test fly an ATV system before the August date. I do not want to disappoint the Scouts.

Would anyone be willing to fly an ATV system at the GPSL and then let me borrow it for the Scout flight two weeks later? If I could see ATV via balloon in operation, I would have more confidence in the system and my ability to get it to work.

Alternatively, if someone with ATV experience wants to come to Rantoul on the first weekend in August, I know that we'd be able to help you have a great time. The amateur operators in the area were great help during last year's event.

Thanks in advance,
Howard

6558. ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:20:19 UTC
From: L. Paul Verhage
Topic: 6558 Message: 6558

I know a couple of us are using Twitter. I read that since Twitter doesn't allow you to categorize your tweets, people are using hashtags. I checked Twitter and it's not being used, so I propose we use the #ARHAB hashtag.

If you will end your tweets with #ARHAB, people can search #ARHAB and find all messages that incorporate that hashtag. That would allow anyone to find any tweet referencing near space.

For GPSL, I recommend anyone tweeting about the conference to use both #ARHAB and #GPSL.

--
Onwards and Upwards,
Paul

6559. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:27:02 UTC
From: Mark Garrett
Topic: 6558 Message: 6559

Paul:

A suggestion to use Facebook as you can receive feedback on your original posts. Plus you are not limited in to 140 characters and can post photos and links and these can also be commented on. I believe you can generate a group within Facebook and have people sign into it without too much effort.

Just a thought

Mark Garrett, KA9SZX

From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Mon, March 22, 2010 1:20:19 PM
Subject: [GPSL] ARHAB Hashtag

I know a couple of us are using Twitter. I read that since Twitter doesn't allow you to categorize your tweets, people are using hashtags. I checked Twitter and it's not being used, so I propose we use the #ARHAB hashtag.

If you will end your tweets with #ARHAB, people can search #ARHAB and find all messages that incorporate that hashtag. That would allow anyone to find any tweet referencing near space.

For GPSL, I recommend anyone tweeting about the conference to use both #ARHAB and #GPSL.

--
Onwards and Upwards,
Paul

6560. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:40:21 UTC
From: L. Paul Verhage
Topic: 6558 Message: 6560

I was thinking about using Facebook, but got scared off after hearing the
privacy problems created by a recent update to the system.

I'll eventually set up a Facebook page.

Paul

On Mon, Mar 22, 2010 at 1:27 PM, Mark Garrett <ka9szx@...> wrote:

>
>
> Paul:
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> A suggestion to use Facebook as you can receive feedback on your original
> posts. Plus you are not limited in to 140 characters and can post photos and
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> group within Facebook and have people sign into it without too much effort.
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>
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> *From:* L. Paul Verhage <nearsys@...>
> *To:* gpsl@yahoogroups.com
> *Sent:* Mon, March 22, 2010 1:20:19 PM
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> #ARHAB and #GPSL.
>
> --
> Onwards and Upwards,
> Paul
>

>
>
>

--
Onwards and Upwards,
Paul

6561. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:47:17 UTC
From: HarryM
Topic: 6558 Message: 6561

FYI - Just a few thoughts on Twitter, Facebook & MySpace from the IT guys in our car club.

"Twitter collects your personal information and shares it with advertisers that can then target users via their history of tweets! Sometimes yout tweets may even show up in advertisements. SMS spoofing is far more difficult than cut and paste coding of virus and exploit files, SO TWITTER ALL YA' WANT but hope that the site administrators have their %#@! together."

"Over 500,000 PRIVATE MySpace users photos have been downloaded from MySpace using a bug published on YouTube back in 2008. If I remember correctly it was released by the Piratebay and available on most of the torrent sites that so many of us (geeks) have used for years! Social-networking sites like MySpace are turning out to be festering nests for spyware, some bulletins show up like an advertisement that provides a link to a fake login screen, tricking people into entering their MySpace e-mail and password... Bam, you've been phished!
BASE64 encoding (used a lot on my space links and bulletins) has inherent flaws that some of us (geeks) are able to exploit...Sort of like the XHTML,Opera and javascript that run behind the scenes on this website."

dont forget the volunerability that was posted about both myspace and facebook, Chross Site XML Scripting, for reasons like this some websites such as deviant art, FA and a few others have disabled a few features untill this can be patched, but that does kinda fall into the "download first" media that MS uses and that a few other web pages use so that the special features (videos, flash, audio, etc) can be played without having to constantly refresh and stream the media to the users machine, alost of this i've run into while doing some security scans for a few friends of mine on MS (i'm working on getting my C|EH) all i've got to say is be careful what you post, and if possable dont use the myspace media if it requires download to view

6562. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:53:30 UTC
From: Mark Garrett
Topic: 6558 Message: 6562

Facebook can be managed with some common sense practices. An example is not to enter a full birthday just month and day (or not at all). You can set your settings to ignore the Facebook games (recommended) and causes and only accept as friends you can verify. If someone is filling it with stuff you do not want to see you can un-friend them. It may have a positive benefit in that you can have others follow along with the effort. Just keep it business like and there should be no issues. We had a sign up here at work about 8 months ago and other than making a few minor changes to my profile it has been somewhat decent.

It is far from perfect and it has gone through some changes but I find it workable as it has more flexibility than just tweeting.

Mark Garrett, KA9SZX

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Mon, March 22, 2010 1:40:21 PM
Subject: Re: [GPSL] ARHAB Hashtag

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I'll eventually set up a Facebook page.

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>Sent: Mon, March 22, 2010 1:20:19 PM
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>Paul
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>

--
Onwards and Upwards,
Paul

6563. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 18:56:19 UTC
From: Mark Garrett
Topic: 6558 Message: 6563

Harry

What dirt do you have on Facebook? Would it be the lesser of evils?

Mark Garrett, KA9SZX

From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Mon, March 22, 2010 1:47:17 PM
Subject: Re: [GPSL] ARHAB Hashtag

FYI - Just a few thoughts on Twitter, Facebook & MySpace from the
IT guys in our car club.

"Twitter collects your personal information and shares it
with advertisers that can then target users via their history of tweets!
Sometimes yout tweets may even show up in advertisements. SMS spoofing is
far more difficult than cut and paste coding of virus and exploit files, SO
TWITTER ALL YA' WANT but hope that the site administrators have their %#@!
together."

"Over 500,000 PRIVATE MySpace users photos have been
downloaded from MySpace using a bug published on YouTube back in 2008. If I
remember correctly it was released by the Piratebay and available on most of the
torrent sites that so many of us (geeks) have used for years!
Social-networking sites like
MySpace are turning out to be festering nests for spyware, some bulletins show
up like an advertisement that provides a link to a fake login screen, tricking
people into entering their MySpace e-mail and password... Bam, you've been
phished!
BASE64 encoding (used a lot on my space links and bulletins) has
inherent flaws that some of us (geeks) are able to exploit...Sort of like the
XHTML,Opera and javascript that run behind the scenes on this
website."

dont
forget the volunerability that was posted about both myspace and facebook,
Chross Site XML Scripting, for reasons like this some websites such as deviant
art, FA and a few others have disabled a few features untill this can be
patched, but that does kinda fall into the "download first" media that MS uses
and that a few other web pages use so that the special features (videos, flash,
audio, etc) can be played without having to constantly refresh and stream the
media to the users machine, alost of this i've run into while doing some
security scans for a few friends of mine on MS (i'm working on getting my C|EH)

all i've got to say is be careful what you post, and if possable dont use the myspace media if it requires download to
view

6564. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 19:03:17 UTC
From: James Coxon
Topic: 6558 Message: 6564

Hey all,
In the UK we've started using twitter - its quite a good way to keep
people up to date with how the launch preparations are going and the
status of the flight and recovery. While the message character count
is low its a lot easier to use in the field rather then having to pull
up big data rich websites.

James
M6JCX

http://twitter.com/jamescoxon/
http://www.pegasushabproject.org.uk

On 22/03/2010, Mark Garrett <ka9szx@...> wrote:
>
>
> Harry
>
> What dirt do you have on Facebook? Would it be the lesser of evils?
>
> Mark Garrett, KA9SZX
>
>
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>
> _____
> From: HarryM <hhm_74115@...>
> To: GPSL@yahoogroups.com
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> "Twitter collects your personal information and shares it
> with advertisers that can then target users via their history of tweets!
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> "Over 500,000 PRIVATE MySpace users photos have been
> downloaded from MySpace using a bug published on YouTube back in 2008. If I

> remember correctly it was released by the Piratebay and available on most of
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> torrent sites that so many of us (geeks) have used for years!
> Social-networking sites like
> MySpace are turning out to be festering nests for spyware, some bulletins
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> up like an advertisement that provides a link to a fake login screen,
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> people into entering their MySpace e-mail and password... Bam, you've been
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> C|EH)
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> view
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>

6565. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 19:07:43 UTC
From: HarryM
Topic: 6558 Message: 6565

I agree with you that caution is the word, but even with that I've heard there is stuff going on in the background that I don't like.

I personally don't have any dirt. I'd have to talk to the IT guys. The problem is, I'm not that versed in this stuff and what they tell me will probly go right over my head. :)

I have a MySpace page only to post pics & videos. I get a lot of crap out of the blue even with that so I don't Twit or Face.

> What dirt do you have on Facebook? Would it be the lesser of evils?

6566. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-22 19:28:01 UTC
From: Mark Garrett
Topic: 6558 Message: 6566

I have only been a Facebook user and not done any MySpace and have no Twitter experience except I have one friend who uses Twitter to post comments and he has them cross post over to Facebook.

My only experience with things that may not be right with Facebook is that I do have people post (though friend finder) requesting to be my friend. While this might seem innocent, I usually ignore them and only follow up if they have listed a mutual friend. I have been known to question the mutual friend about them before I request as well. Since I do not play the games I am not familiar with any evils that may lurk there. I also do not run any volunteer apps that may lurk as well. Again, just being logically caution minded as anyone would if they received something that would say "click here to see my pics" out of the blue. Facebook is more data intensive than Twitter but like sharing the photo aspects of it.

I would suggest that if some one wants to Tweet, maybe they could cross post into a GPSL link on Facebook. But if there any horror stories about any of these instant messengers I would like to hear more about their experiences.

Mark Garrett, KA9SZX

From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Mon, March 22, 2010 2:07:43 PM
Subject: Re: [GPSL] ARHAB Hashtag

☐
I agree with you
that caution is the word, but even with that I've heard there is stuff going on
in the background that I don't like.

I personally don't have any dirt. I'd have to talk
to the IT guys. The problem is, I'm not that
versed in this stuff and what they tell me will probly go right over my head.
:)

I have a MySpace page only to post pics &
videos. I get a lot of crap out of the blue even with that so I don't
Twit or Face.

> What dirt do you have on Facebook? Would it be the lesser of
evils?

6567. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-23 02:19:23 UTC
From: Zack Clobes
Topic: 6558 Message: 6567

I've had good experiences with Facebook, but not much experience with Twitter. At the risk of sounding like a luddite, are the hash tags strictly for the sake of searching? Do they have any other purpose?

Zack

On Mon, Mar 22, 2010 at 2:28 PM, Mark Garrett <ka9szx@...> wrote:

>
>
> I have only been a Facebook user and not done any MySpace and have no
> Twitter experience except I have one friend who uses Twitter to post
> comments and he has them cross post over to Facebook.
>
> My only experience with things that may not be right with Facebook is that
> I do have people post (though friend finder) requesting to be my friend.
> While this might seem innocent, I usually ignore them and only follow up if
> they have listed a mutual friend. I have been known to question the mutual
> friend about them before I request as well. Since I do not play the games
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> Twitter but like sharing the photo aspects of it.
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> I would suggest that if some one wants to Tweet, maybe they could cross
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> any of these instant messengers I would like to hear more about their
> experiences.
>
> Mark Garrett, KA9SZX
>
>
>
> ---
> *From:* HarryM <hhm_74115@cox.net>
> *To:* GPSL@yahoogroups.com
> *Sent:* Mon, March 22, 2010 2:07:43 PM
>
> *Subject:* Re: [GPSL] ARHAB Hashtag
>
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> I agree with you that caution is the word, but even with that I've heard

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> of the blue even with that so I don't Twit or Face.
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> > What dirt do you have on Facebook? Would it be the lesser of evils?
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>

6568. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-23 03:26:27 UTC
From: Greg Williams
Topic: 6558 Message: 6568

The hashtags can draw attention to a particular word or phrase. The word/phrase with the "#" will denote that the word/phrase is not part of the message's syntax, but is being used for search purposes. The "#" is not necessary if you are using the word/phrase in your "tweet".

Example, you're at GPSL and you want to post that a balloon reached 100,000 feet. If you want people who are looking specifically for GPSL messages to read You can send the following:

"Our balloon has just passed 100k feet altitude #gpsl"

This will alert those following any tweet featuring "GPSL" to your message. Other good hashtags might be #arhab, #ballooning, and the nickname of your payload.

You can also send the following without needing the "#" symbol:

"Just arrived at the hotel for tomorrow's GPSL gathering". Sometimes you can use the # for phrases, names, etc.

"Just arrived at the hotel for #GPSL tomorrow"

You can connect your Twitter to your Facebook page. So if you update Twitter, it will also update Facebook. It's pretty useful in a situation where, say you are mobile on a road trip, and you send a text msg via your cell phone to your Twitter account:

"Any good repeaters to use in Knoxville, TN?" or "Any good #repeaters to use in #knoxville, #tennessee? #hamr"

This way, hams on your twitter feed, facebook, and anyone who might search twitter for tweets featuring "Knoxville" and "Tennessee" or "hamr" even "repeaters" can possibly suggest good repeaters for you to listen to.

Hopefully your phone will have web browsing on Twitter/FB, or the person has your cell pnone # and can call or message you. If I'm stopped on a road trip for a meal break I try to find a restaurant with WiFi so I can use my laptop.

Sometimes the hashtags can be used to draw attention to other users. For example, on Fridays, many Twitter users will post other users on their list that you can follow (called "#FollowFriday", or "#FF"). This might help you locate other hams on Twitter, or folks in your area.

Hope this helps.

Greg Williams
@k4hsm

On Mar 22, 2010, at 10:19 PM, Zack Clobes wrote:

> I've had good experiences with Facebook, but not much experience
> with Twitter. At the risk of sounding like a luddite, are the hash
> tags strictly for the sake of searching? Do they have any other
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>
> Zack
>
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>
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> On Mon, Mar 22, 2010 at 2:28 PM, Mark Garrett <ka9szx@...>
> wrote:
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> I would suggest that if some one wants to Tweet, maybe they could
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> more about their experiences.
>
> Mark Garrett, KA9SZX
>
>
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> From: HarryM <hhm_74115@...>
> To: GPSL@yahoogroups.com
> Sent: Mon, March 22, 2010 2:07:43 PM
>
> Subject: Re: [GPSL] ARHAB Hashtag
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>
>
>

6569. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-23 12:27:46 UTC
From: L. Paul Verhage
Topic: 6558 Message: 6569

Yeah, like Greg said.
;)

Paul

On Mon, Mar 22, 2010 at 10:26 PM, Greg Williams <gregwilliams@...>wrote:

>
>
> The hashtags can draw attention to a particular word or phrase. The
> word/phrase with the "#" will denote that the word/phrase is not part of the
> message's syntax, but is being used for search purposes. The "#" is not
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> "Just arrived at the hotel for tomorrow's GPSL gathering". Sometimes you
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> You can connect your Twitter to your Facebook page. So if you update
> Twitter, it will also update Facebook. It's pretty useful in a situation
> where, say you are mobile on a road trip, and you send a text msg via your
> cell phone to your Twitter account:
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> "Any good repeaters to use in Knoxville, TN?" or "Any good #repeaters to
> use in #knoxville, #tennessee? #hamr"
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> This way, hams on your twitter feed, facebook, and anyone who might search
> twitter for tweets featuring "Knoxville" and "Tennessee" or "hamr" even
> "repeaters" can possibly suggest good repeaters for you to listen to.
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> example, on Fridays, many Twitter users will post other users on their list
> that you can follow (called "#FollowFriday", or "#FF"). This might help you
> locate other hams on Twitter, or folks in your area.
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> Hope this helps.
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> Greg Williams
> @k4hsm
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> On Mar 22, 2010, at 10:19 PM, Zack Clobes wrote:
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Onwards and Upwards,
Paul

6570. Re: [GPSL] ARHAB Hashtag

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-23 14:23:45 UTC
From: Alan Sieg WB5RMG
Topic: 6558 Message: 6570

Another $.02 ... (YMMV)

As with any tool, the finished product is a function of the craftsman.
Any internet/computer application/environment can be used insecurely.
Stuff deserving of protection needs firewalls, and access controls, etc.
Twitter, FB or MySpace is not the right place for sensitive information.

FaceBook can be a useful place for a club to collect information, stories,
pictures to share, and present public information. I don't do much there.
With a teenage daughter, I needed to understand the security settings.
Don't assume the defaults are best, regularly review your privacy settings.
A lot of folks from my past-lives have found me as a result of being there.
Again - Your Mileage May Vary . . . That can be good, and that can be bad.

Twitter is like APRS short messaging for the internet. Very timely, wide
distribution - I find lots of good links. BUT, just like with email & web
- you HAVE TO consider the source, and be careful what you click....
I get lots of breaking news this way, I don't usually want the details.
In the ARES and EmComm environment, we find Twitter very quick & useful.

If you don't have current A-V and updated browsers, Ur screwed anyway.

With a handy Twitter Widget on my Wordpress blog,
I can quickly add an interesting link onto my home page... via Twitter.
Go see for yourself : http://wb5rmg.wordpress.com - right sidebar.

Thanks /;^)
--
ARRL ARES Asst Emergency Coordinator
Huntsville-Madison County, Alabama
http://hmcraces.org 146.940MHz
wb5rmg(at)arrl(dot)net @wb5rmg
http://www.linkedin.com/in/alansieg

> Yeah, like Greg said.
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> On Mon, Mar 22, 2010 at 10:26 PM, Greg Williams
> <gregwilliams@...>wrote:
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> --

> Onwards and Upwards,
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6571. Re: [KNSP] NSTAR status, 23 March

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-24 02:48:37 UTC
From: Mike Manes
Topic: 6571 Message: 6571

Not sure if the blizzard that's raging as we speak here in the Denver area will lose some oomph before it gets to you, but it's the worst to hit us so far this winter. Started out w/ rain/snow mix at 1630, and now (1930) there's 6" of white on the pavement - although the 25 kt NW winds are making for a lot of drifting. And my son just called from the NW 'burbs to report that he'd lost power. The forecast if for it to pass sometime tomorrow afternoon, leaving a foot or more behind.

73 de Mike W5VSI

On 3/23/2010 17:24, Mark Conner wrote:
>
>
> The image below shows the surface map for Saturday morning - this pretty
> much tells the tale. I think the only chance we have is if the low in
> Kansas ends up centered farther south or slows down about 12 hours.
> This solution would be pretty bad, with 20-25 mph surface winds and rain.
>
> Some of the forecasts still want to put the landing in the
> Bellevue/Papillion area on the south side of the Omaha metro. Too much
> stuff on the ground and the airspace is a little busy for that.
>
> I'm estimating our chances of flying Saturday at about 30%. I read the
> forecasts leading up to last year's CPSWS and we had almost exactly the
> same problem in 2009 - early on looked pretty good but within 5-7 days
> beforehand the forecasts went south on us.
>
> I am planning to present some short movie clips and photos if we don't
> fly, but it's not a great substitute. :-/
>
> The weekend of 3/4 April does not look so good either, esp. Saturday the
> 3rd. There's something of a break on the 4th, but the chase would be
> pretty long to the southeast.
>
> 73 de Mark N9XTN
>
>
> 9kh.gif
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6572. Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 13:12:05 UTC
From: Mark Conner
Topic: 6572 Message: 6572

http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-takes-NASA-style-photographs-using-helium-balloon-pocket-camera.html

This may generate a spike in your site's traffic for a few days.

73 de Mark N9XTN

6573. Re: [GPSL] Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 13:33:40 UTC
From: Ed Moore
Topic: 6572 Message: 6573

Like almost every article on hab in the mainstream media (including
any we've had) it's presented entirely without context and like no one
has ever done it before. There's no hope really :)

Ed
Flickr.com/cuspaceflight

On 25 Mar 2010, at 13:12, Mark Conner <mconner1@...> wrote:

> http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-take
s-NASA-style-photographs-using-helium-balloon-pocket-camera.html
>
> This may generate a spike in your site's traffic for a few days.
>
> 73 de Mark N9XTN
>

6574. Re: [GPSL] Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 15:00:45 UTC
From: mw@omsrc.com
Topic: 6572 Message: 6574

I have started an article on how several American balloons launched from the USA for Britain almost make it to Britain, yet the Brits don't have the technology to guide their balloons from Britain to the US, not a single one even leaving the British coast line for America! :)

I am happy for the Ham reaching this goal he set, but very bad, uninformed reporting burns me. Citing previous art by researching the story is reporting 101.

--Michael
K5NOT

Quoting Ed Moore <eam52@...>:

> Like almost every article on hab in the mainstream media (including
> any we've had) it's presented entirely without context and like no
> one has ever done it before. There's no hope really :)
>
> Ed
> Flickr.com/cuspaceflight
>
> On 25 Mar 2010, at 13:12, Mark Conner <mconner1@...> wrote:
>
>> http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-takes-NASA-style-photographs-using-helium-balloon-pocket-camera.html
>>
>> This may generate a spike in your site's traffic for a few days.
>>
>> 73 de Mark N9XTN
>>
>

6575. Re: [GPSL] Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 15:32:54 UTC
From: Idle-Tyme
Topic: 6572 Message: 6575
Attachments: 1 described; binary payloads are missing from this source WARC

Plus it's all where you live also.

Being one of the originals, been doing these flights for over 20 years now. 48 flights with 100% recovery and close to that in success of the missions goals.

But here we are under the umbrella of the University of Wisconsin. Where if it has anything to do with Science or technology at all, if youre not the University doing it you don't know crap, and are totally ignored!

After fighting this mentality here in this state I have all but given up trying to get the press to cover the launches at all.

The U of W could fly a turd on a mylar party balloon to 200 feet, and it will be on the statewide newspapers front page. as being technology breaking news.

Oh well,,

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/25/2010 10:00 AM, mw@... wrote:
> I have started an article on how several American balloons launched
> from the USA for Britain almost make it to Britain, yet the Brits
> don't have the technology to guide their balloons from Britain to the
> US, not a single one even leaving the British coast line for America!
> :)
>
> I am happy for the Ham reaching this goal he set, but very bad,
> uninformed reporting burns me. Citing previous art by researching the
> story is reporting 101.
>
> --Michael
> K5NOT
>
>
> Quoting Ed Moore<eam52@...>:
>
>

>> Like almost every article on hab in the mainstream media (including
>> any we've had) it's presented entirely without context and like no
>> one has ever done it before. There's no hope really :)
>>
>> Ed
>> Flickr.com/cuspaceflight
>>
>> On 25 Mar 2010, at 13:12, Mark Conner<mconner1@...> wrote:
>>
>>
>>> http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-takes-NASA-style-photographs-using-helium-balloon-pocket-camera.html
>>>
>>> This may generate a spike in your site's traffic for a few days.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
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> Yahoo! Groups Links
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6576. Re: [GPSL] Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 17:39:05 UTC
From: Idle-Tyme
Topic: 6572 Message: 6576
Attachments: 2 described; binary payloads are missing from this source WARC

Not scheduled as of yet, but we have at least one in the works that
should be interesting and almost one of a kind.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/25/2010 12:35 PM, Fraser, Don wrote:
> Joe;
> Any flights planned between now and the end of April? If so, I'd like
> to watch and/or assist as I'm visiting the wife's family near Black
> River Falls.
>
> Don Fraser, WA9WWS
>
>
> ----------
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *Idle-Tyme
> *Sent:* Thursday, March 25, 2010 9:33 AM
> *To:* GPSL@yahoogroups.com
> *Cc:* mw@...
> *Subject:* Re: [GPSL] Daily Mail (UK) article on HAB
>
> Plus it's all where you live also.
>
> Being one of the originals, been doing these flights for over 20 years
> now. 48 flights with 100% recovery and close to that in success of the
> missions goals.
>
> But here we are under the umbrella of the University of Wisconsin.
> Where if it has anything to do with Science or technology at all, if
> youre not the University doing it you don't know crap, and are totally
> ignored!
>
> After fighting this mentality here in this state I have all but given
> up trying to get the press to cover the launches at all.
>
> The U of W could fly a turd on a mylar party balloon to 200 feet, and
> it will be on the statewide newspapers front page. as being technology
> breaking news.
>
> Oh well,,

>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 3/25/2010 10:00 AM, mw@... wrote:
>> I have started an article on how several American balloons launched
>> from the USA for Britain almost make it to Britain, yet the Brits
>> don't have the technology to guide their balloons from Britain to the
>> US, not a single one even leaving the British coast line for America!
>> :)
>>
>> I am happy for the Ham reaching this goal he set, but very bad,
>> uninformed reporting burns me. Citing previous art by researching the
>> story is reporting 101.
>>
>> --Michael
>> K5NOT
>>
>>
>> Quoting Ed Moore<eam52@...>:
>>
>>
>>> Like almost every article on hab in the mainstream media (including
>>> any we've had) it's presented entirely without context and like no
>>> one has ever done it before. There's no hope really :)
>>>
>>> Ed
>>> Flickr.com/cuspaceflight
>>>
>>> On 25 Mar 2010, at 13:12, Mark Conner<mconner1@...> wrote:
>>>
>>>
>>>> http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-takes-NASA-style-photographs-using-helium-balloon-pocket-camera.html
>>>>
>>>> This may generate a spike in your site's traffic for a few days.
>>>>
>>>> 73 de Mark N9XTN
>>>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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6577. Re: [GPSL] Daily Mail (UK) article on HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 18:47:03 UTC
From: Idle-Tyme
Topic: 6572 Message: 6577
Attachments: 3 described; binary payloads are missing from this source WARC

Of Course, Thats all we ever have used, and probably ever will use.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/25/2010 1:21 PM, Fraser, Don wrote:
> Great, and will you be using H2 instead of the He that we use in the
> EOSS launches?
>
> Don Fraser, SVSP Engineering
> HP R&D Colorado Lab
>
>
> ----------
> *From:* Idle-Tyme [mailto:nss@...]
> *Sent:* Thursday, March 25, 2010 11:39 AM
> *To:* Fraser, Don; GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Daily Mail (UK) article on HAB
>
> Not scheduled as of yet, but we have at least one in the works that
> should be interesting and almost one of a kind.
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 3/25/2010 12:35 PM, Fraser, Don wrote:
>> Joe;
>> Any flights planned between now and the end of April? If so, I'd
>> like to watch and/or assist as I'm visiting the wife's family near
>> Black River Falls.
>>
>> Don Fraser, WA9WWS
>>
>>
>> ----------
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>> Of *Idle-Tyme
>> *Sent:* Thursday, March 25, 2010 9:33 AM
>> *To:* GPSL@yahoogroups.com

>> *Cc:* mw@...
>> *Subject:* Re: [GPSL] Daily Mail (UK) article on HAB
>>
>> Plus it's all where you live also.
>>
>> Being one of the originals, been doing these flights for over 20
>> years now. 48 flights with 100% recovery and close to that in success
>> of the missions goals.
>>
>> But here we are under the umbrella of the University of Wisconsin.
>> Where if it has anything to do with Science or technology at all, if
>> youre not the University doing it you don't know crap, and are
>> totally ignored!
>>
>> After fighting this mentality here in this state I have all but given
>> up trying to get the press to cover the launches at all.
>>
>> The U of W could fly a turd on a mylar party balloon to 200 feet, and
>> it will be on the statewide newspapers front page. as being
>> technology breaking news.
>>
>> Oh well,,
>>
>> Joe WB9SBD
>> Near Space Sciences
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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>> http://www.idle-tyme.com
>>
>> On 3/25/2010 10:00 AM, mw@... wrote:
>>> I have started an article on how several American balloons launched
>>> from the USA for Britain almost make it to Britain, yet the Brits
>>> don't have the technology to guide their balloons from Britain to the
>>> US, not a single one even leaving the British coast line for America!
>>> :)
>>>
>>> I am happy for the Ham reaching this goal he set, but very bad,
>>> uninformed reporting burns me. Citing previous art by researching the
>>> story is reporting 101.
>>>
>>> --Michael
>>> K5NOT
>>>
>>>
>>> Quoting Ed Moore<eam52@...>:
>>>
>>>
>>>> Like almost every article on hab in the mainstream media (including

>>>> any we've had) it's presented entirely without context and like no
>>>> one has ever done it before. There's no hope really :)
>>>>
>>>> Ed
>>>> Flickr.com/cuspaceflight
>>>>
>>>> On 25 Mar 2010, at 13:12, Mark Conner<mconner1@...> wrote:
>>>>
>>>>
>>>>> http://www.dailymail.co.uk/sciencetech/article-1260323/British-aerospace-enthusiast-takes-NASA-style-photographs-using-helium-balloon-pocket-camera.html
>>>>>
>>>>> This may generate a spike in your site's traffic for a few days.
>>>>>
>>>>> 73 de Mark N9XTN
>>>>>
>>>>>
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>>> Yahoo! Groups Links
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6578. How often does the WX Station update the weather data?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 22:25:16 UTC
From: k6rpt
Topic: 6578 Message: 6578

How often does the WX Station update the weather data? I'm trying to pick a launch site that would put my flight down in central California farm land. Wednesday the flight predication was north to south and today it is west to east. The flight is scheduled for this Saturday, how early can I get a good flight predication?
Thanks,
-Ron K6RPT

6579. NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 23:02:38 UTC
From: Idle-Tyme
Topic: 6579 Message: 6579
Attachments: 1 described; binary payloads are missing from this source WARC

Any of you as disgusted as I am!?

The guy in England sends a Canon Powershot aloft on a balloon and it
gets world wide acclaim for being the first to do this.

Is Amateur Radio soo antiquated that as soon as they hear the words Ham
Radio or Amateur radio they all think we are stone age technology?

Man, I get soo pissed MIT and their cell phone big freaking deal,
now this guy in england and his camera,

why is not any of the incredible missions we all do ever covered?

Joe WB9SBD
Near Space Sciences
--

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6580. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 23:21:15 UTC
From: ccccrnr@aim.com
Topic: 6579 Message: 6580
Attachments: 1 described; binary payloads are missing from this source WARC

wow the media,

my wife and I just say NBC news

my non-ham wife said "isn't that basicly what you guys do?
they even have a picture with the guy posting with your kind of antenna."

wonder if St. Louis can get the same coverage in May.
Or all of us in July.

I wonder if this is to make the public think of NASA as extremely outdated, so the President can sharply cut thier budget?

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, Mar 25, 2010 6:02 pm
Subject: [GPSL] NBC Nightly News

Any of you as disgusted as I am!?

The guy in England sends a Canon Powershot aloft on a balloon and it gets world wide acclaim for being the first to do this.

Is Amateur Radio soo antiquated that as soon as they hear the words Ham Radio or Amateur radio they all think we are stone age technology?

Man, I get soo pissed MIT and their cell phone big freaking deal, now this guy in england and his camera,

why is not any of the incredible missions we all do ever covered?

Joe WB9SBD
Near Space Sciences

--

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Idle-Tyme.com
http://www.idle-tyme.com

6581. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-25 23:59:05 UTC
From: Pete Lilja
Topic: 6579 Message: 6581
Attachments: 1 described; binary payloads are missing from this source WARC

Yikes! That is a load.

Well, as I see, it the answer is to either ignore it or contact your local media and have them come along for a flight.

That is rather poor reporting, however.

Those are terrific images!

Pete
KC0GPB

On Thu, Mar 25, 2010 at 6:21 PM, <ccccrnr@...> wrote:

> wow the media,
>
> my wife and I just say NBC news
>
> my non-ham wife said "isn't that basicly what you guys do?
> they even have a picture with the guy posting with your kind of antenna."
>
> wonder if St. Louis can get the same coverage in May.
> Or all of us in July.
>
> I wonder if this is to make the public think of NASA as extremely outdated,
> so the President can sharply cut thier budget?
>
> Sincerely,
> Carlton Corbitt
> -.- .. ....- -. .... -.-
>
>
> -----Original Message-----
> From: Idle-Tyme <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Mar 25, 2010 6:02 pm
> Subject: [GPSL] NBC Nightly News
>
> Any of you as disgusted as I am!?
>
> The guy in England sends a Canon Powershot aloft on a balloon and it gets
> world wide acclaim for being the first to do this.
>
> Is Amateur Radio soo antiquated that as soon as they hear the words Ham
> Radio or Amateur radio they all think we are stone age technology?

>
> Man, I get soo pissed MIT and their cell phone big freaking deal, now
> this guy in england and his camera,
>
> why is not any of the incredible missions we all do ever covered?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6582. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 00:10:21 UTC
From: Idle-Tyme
Topic: 6579 Message: 6582
Attachments: 2 described; binary payloads are missing from this source WARC

Yes ther are nice. But there are a dozen groups here in the USA that have just as many Nice pics as those. and are totally ignored.

if it's with a cell phone and crappy pictures it gets ton of world wide press.

If it's a geek that spends 800 bucks on his aprs system, wow he got ripped off! and attaches his camera to it, like wow huh?

Yet i know of at least 4 groups here in the states that have just as nice images, and even full color live motion video,,

but do we get any press?

Nope it's amateur radio ya know that old grandpa guy in his basement and his morese code ya know we can't or don't do neat stuff like this.

Joe WB9SBD

Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/25/2010 6:59 PM, Pete Lilja wrote:
>
>
> Yikes! That is a load.
> Well, as I see, it the answer is to either ignore it or contact your
> local media and have them come along for a flight.
> That is rather poor reporting, however.
> Those are terrific images!
> Pete
> KC0GPB
>
> On Thu, Mar 25, 2010 at 6:21 PM, <ccccrnr@...
> <mailto:ccccrnr@...>> wrote:
>
> wow the media,
> my wife and I just say NBC news
> my non-ham wife said "isn't that basicly what you guys do?
> they even have a picture with the guy posting with your kind of
> antenna."
> wonder if St. Louis can get the same coverage in May.

> Or all of us in July.
> I wonder if this is to make the public think of NASA as extremely
> outdated, so the President can sharply cut thier budget?
> Sincerely,
> Carlton Corbitt
> -.- .. ....- -. .... -.-
>
>
> -----Original Message-----
> From: Idle-Tyme <nss@... <mailto:nss@...>>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Thu, Mar 25, 2010 6:02 pm
> Subject: [GPSL] NBC Nightly News
>
> Any of you as disgusted as I am!?
>
> The guy in England sends a Canon Powershot aloft on a balloon and
> it gets world wide acclaim for being the first to do this.
>
> Is Amateur Radio soo antiquated that as soon as they hear the
> words Ham Radio or Amateur radio they all think we are stone age
> technology?
>
> Man, I get soo pissed MIT and their cell phone big freaking
> deal, now this guy in england and his camera,
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> why is not any of the incredible missions we all do ever covered?
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> Joe WB9SBD
> Near Space Sciences
> --
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> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>

6583. Re: [GPSL] How often does the WX Station update the weather data?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 00:14:00 UTC
From: BASE
Topic: 6578 Message: 6583

Ron,

The future winds at READY models, which are used by the Near Space Ventures website are updated every six hours.

Whenever I use the wind predictions, I like to run models for 24 hours before anticipated launch through 24 hours after the launch time. Sometimes the dramatic swings are due to a passing weather front.

Since you are within 72 hours of launch, I would hope that the models will stop swinging wildly unless there is a pending weather event.

As long as we're talking about running the models, I also run a variety of ascent and descent speeds (500 ft/min to 1500 ft/min on way up, and 1000 to 1500 ft/min on the way down) with three different burst heights framing the predicted burst height from LiftWin.

Hope this helps,
Howard
--- On Thu, 3/25/10, k6rpt <Ron@...> wrote:

From: k6rpt <Ron@...>
Subject: [GPSL] How often does the WX Station update the weather data?
To: GPSL@yahoogroups.com
Date: Thursday, March 25, 2010, 6:25 PM

How often does the WX Station update the weather data? I'm trying to pick a launch site that would put my flight down in central California farm land. Wednesday the flight predication was north to south and today it is west to east. The flight is scheduled for this Saturday, how early can I get a good flight predication?

Thanks,

-Ron K6RPT

6584. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 00:16:21 UTC
From: Mark Garrett
Topic: 6579 Message: 6584
Attachments: 1 described; binary payloads are missing from this source WARC

Here is the URL for those that did not catch the story:

http://www.msnbc.msn.com/id/3032619/vp/36043526#36043526

Looking for a way right now to post a comment on the poor reporting of Mike Taibbi.

Mark Garrett, KA9SZX

From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, March 25, 2010 6:02:38 PM
Subject: [GPSL] NBC Nightly News

Any of you as disgusted as I am!?

The guy in England sends a Canon Powershot aloft on a balloon and it
gets world wide acclaim for being the first to do this.

Is Amateur Radio soo antiquated that as soon as they hear the words Ham
Radio or Amateur radio they all think we are stone age technology?

Man, I get soo pissed MIT and their cell phone big freaking deal,
now this guy in england and his camera,

why is not any of the incredible missions we all do ever covered?

Joe WB9SBD
Near Space Sciences

--
Sig
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Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6585. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 00:16:41 UTC
From: Pete Lilja
Topic: 6579 Message: 6585
Attachments: 3 described; binary payloads are missing from this source WARC

Yes! Many nice photos all over. Our group has many hundreds of them ourselves (but we have none of the UK [?]).

After a flight last Fall I sent a photo to the local TV weather guy. They aired it and commented it was cool but that was about it.

I guess this doesn't bother me because we do it for the thrill and the fun of the challenge of HABbing.

Like everything in life, I guess, media hits are fickle and a matter of timing.

Pete
KC0GPB

On Thu, Mar 25, 2010 at 7:10 PM, Idle-Tyme <nss@...> wrote:

> Yes ther are nice. But there are a dozen groups here in the USA that have
> just as many Nice pics as those. and are totally ignored.
>
> if it's with a cell phone and crappy pictures it gets ton of world wide
> press.
>
> If it's a geek that spends 800 bucks on his aprs system, wow he got
> ripped off! and attaches his camera to it, like wow huh?
>
> Yet i know of at least 4 groups here in the states that have just as nice
> images, and even full color live motion video,,
>
> but do we get any press?
>
> Nope it's amateur radio ya know that old grandpa guy in his basement and
> his morese code ya know we can't or don't do neat stuff like this.
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>
> Joe WB9SBD
>
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 3/25/2010 6:59 PM, Pete Lilja wrote:

>
> Yikes! That is a load.
>
> Well, as I see, it the answer is to either ignore it or contact your local
> media and have them come along for a flight.
>
> That is rather poor reporting, however.
>
> Those are terrific images!
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> Pete
> KC0GPB
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> On Thu, Mar 25, 2010 at 6:21 PM, <ccccrnr@...> wrote:
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>> wow the media,
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>> my wife and I just say NBC news
>>
>> my non-ham wife said "isn't that basicly what you guys do?
>> they even have a picture with the guy posting with your kind of antenna."
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>> wonder if St. Louis can get the same coverage in May.
>> Or all of us in July.
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>> I wonder if this is to make the public think of NASA as extremely
>> outdated, so the President can sharply cut thier budget?
>>
>> Sincerely,
>> Carlton Corbitt
>> -.- .. ....- -. .... -.-
>>
>>
>> -----Original Message-----
>> From: Idle-Tyme <nss@...>
>> To: GPSL@yahoogroups.com
>> Sent: Thu, Mar 25, 2010 6:02 pm
>> Subject: [GPSL] NBC Nightly News
>>
>> Any of you as disgusted as I am!?
>>
>> The guy in England sends a Canon Powershot aloft on a balloon and it gets
>> world wide acclaim for being the first to do this.
>>
>> Is Amateur Radio soo antiquated that as soon as they hear the words Ham
>> Radio or Amateur radio they all think we are stone age technology?
>>
>> Man, I get soo pissed MIT and their cell phone big freaking deal, now
>> this guy in england and his camera,
>>

>> why is not any of the incredible missions we all do ever covered?
>>
>> Joe WB9SBD
>> Near Space Sciences
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>
>

6586. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 01:15:59 UTC
From: Mark Garrett
Topic: 6579 Message: 6586
Attachments: 1 described; binary payloads are missing from this source WARC

OK
Here is how you comment:

http://www.msnbc.msn.com/id/29104230/

Be sure to mention the UK balloon story by Mike Taibbi.

Here is the URL for those that did not catch the story:

http://www.msnbc.msn.com/id/3032619/vp/36043526#36043526

Looking for a way right now to post a comment on the poor reporting of Mike Taibbi.

Mark Garrett, KA9SZX

From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, March 25, 2010 6:02:38 PM
Subject: [GPSL] NBC Nightly News

Any of you as disgusted as I am!?

The guy in England sends a Canon Powershot aloft on a balloon and it
gets world wide acclaim for being the first to do this.

Is Amateur Radio soo antiquated that as soon as they hear the words Ham
Radio or Amateur radio they all think we are stone age technology?

Man, I get soo pissed MIT and their cell phone big freaking deal,
now this guy in england and his camera,

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Joe WB9SBD
Near Space Sciences

--
Sig
The Original Rolling Ball
Clock
Idle Tyme
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6587. Re: [GPSL] How often does the WX Station update the weather data?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 06:32:18 UTC
From: wb8elk@aol.com
Topic: 6578 Message: 6587

Hi Ron,

I get reasonably accurate predictions about 2 to 3 days from launch....in particular the 36 hour and 24 hour predictions are rather good and I find that the 18 hour in advance one (night before launch) is a good one....usually not a lot of change between that one and the morning predictions of the actual launch day unless there's an active weather front coming through.

So, my answer is that the night beforehand you'll have good data to work with and a good trend about 2 to 3 days beforehand.

- Bill WB8ELK

Ron if you email me your balloon size, payload weight and estimated launchsite, I'll run a prediction for you to see where you'd have to be to land in the central valley. I've flown in that area a number of times.

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Thu, Mar 25, 2010 5:25 pm
Subject: [GPSL] How often does the WX Station update the weather data?

How often does the WX Station update the weather data? I'm trying to pick a launch site that would put my flight down in central California farm land. Wednesday the flight predication was north to south and today it is west to east. The flight is scheduled for this Saturday, how early can I get a good flight predication?
Thanks,
-Ron K6RPT

6588. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 07:53:40 UTC
From: wb8elk@aol.com
Topic: 6579 Message: 6588
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark,

We think in similar ways...I just sent a comment to NBC News on that very link prior to reading your email with the link.

I do congratulate Robert Harrison on spreading the word about high altitude balloons to the world. I've been in touch with him and other balloon folks in the UK via email over the past year or two now and he does a nice job working on the modified FL-digi program as well as work on the SpaceNear.us balloon tracking program along with James Coxon. There are others in his balloon group that participate in the flights there from what I understand and there is also quite a nice balloon program at Cambridge. I would assume that he didn't intend the NBC reporter to make the statement saying he was the first to have ever flown a camera into Near Space (I emailed NBC's Mike Taibbi to correct him on that statement)...I know that many of you have flown that exact Canon Powershot camera for years now. The original report in the UK also stated he held the highest altitude record for weather balloons...that may be so in the UK but not the world as many of us have exceeded his highest flight.

You have to understand bigtime news media....the story showing that one person can "beat NASA" for pennies compared to billions plays well and is somewhat of a editorial formula to capture the public's attention. Basically the same story was written about the MIT students and the Spanish students before that, the headlines were almost the same wording....but as those stories are months old, they are long forgotten by the very short attention span of the public by now so the formula still works.

The balloon groups in the UK have to surmount very difficult barriers to fly there. They have to approve their flights weeks in advance and they are not allowed to use amateur radio since the byzantine laws from their version of the FCC prohibit amateur radio in airplanes and balloons. As a consequence, they have to rely on 10 milliwatt 434 MHz transmitters running 50 baud ASCII RTTY...which is a challenge to track down for even the most experienced of us. They can't use the existing APRS network which makes our lives a lot easier here in the US. Add to that the problem of being surrounded by water and the good possibility of landing in another country.

As to some of the posts I read earlier being upset about the report since many of us have been at this for decades with very little recognition....If your local media isn't interested (although you might want to hit them up now that the skillet is hot), then my advice is to reach out to the world and start up a Wiki for your group in addition to your website...and post some of your favorite photos and videos there. Sooner or later some reporter will decide to do fact checking while doing a report and see what other groups are doing. We live in a world where flashy websites get the most attention and Wiki sites have become the online Encyclopedias of today (whether they are accurate or not). The main exception to this is the elegantly plain website of Google. If you want the general public to notice your activities and accomplishments, start with a flashy website along with a Wiki... post your favorite videos on YouTube and consider doing ballooning Facebook and

Twitter sites. With these kind of tools, we now have an unprecedented ability to promote our achievements to the world right from our home computers. You might want to find someone in your group who is a web guru since keeping up with all this will take a lot of time away from building payloads and launching balloons....building and maintaining a flashy website is done with a maze of new languages seemingly expanding as fast as the Universe.

My main concern with wide coverage reports such as this is having a batch of folks launch balloons willy-nilly without regard to doing it safely. Ever since the MIT report, I've advised quite a few newcomers on how to do this safely (including advising the MIT students during their subsequent launches) and have actually introduced a few to amateur radio. I even suggested that the MIT students get their ham licenses and one of them has actually joined the ranks of amateur radio balloonists. This is a great way to get new blood into ham radio and the world of high altitude ballooning.

Let's welcome the UK balloon folks here with open arms as several of them are already on this list. They need all the support and good will we can supply them and I wish them all well in their endeavours.

- Bill Brown WB8ELK

-----Original Message-----
From: Mark Garrett <ka9szx@...>
To: GPSL@yahoogroups.com
Sent: Thu, Mar 25, 2010 8:15 pm
Subject: Re: [GPSL] NBC Nightly News

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Near Space Sciences

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6589. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 10:51:40 UTC
From: Ed Moore
Topic: 6579 Message: 6589

As a member of the Cambridge balloon group mentioned I should say that we definitely don't operate in a vacuum, a few of us are on the various balloon lists like this one (and would love to make it over to a GPSL one of these years). We're inspired (to name just a few) by the ambition of JP, the professionalism and competence of EOSS to have done this so successfully hundreds of times, and I'm saddened by the fact that I'll never be able to meet KD7LMO, having looked in wonder at his work since I started doing this a few years ago. That our particular group is working on a 100km rockoon currently only puts us on a path trodden by Bill and others several years ago (although I think I'm right in saying that an amateur rockoon hasn't actually made it over 100km yet? Hope so anyway :))

We've had our brushes with the mainstream media too - our teddies in (near)space project with a local school (http://news.bbc.co.uk/1/hi/7767376.stm) took off in a similarly unanticipated way with media outlets around the globe, and it's frustrating to have the 'near' stripped away from 'near-space' by every sub-editor, having our very carefully designed payload with our arm7 based flight computer become a 'laptop and webcam', and having the inevitable and ludicrous 'you could give nasa a run for their money' comments. But that's because, as Bill says, they're just interested in the notion rather than the actual details, and the details only matter to the aspergersey nerds like us (as they see it). My feelings after the brief media whirl is that it's really not worth the trouble and attention it (briefly) causes, and not nearly as much fun as teaching and working with the kids during the project itself.

I should make one small correction to Bill's post though, which is that we don't have to get our flights approved weeks in advance, or approved at all for that matter. We just have a blanket NOTAM for our launch site which gets re-issued every six months, and we can launch as and when we want provided that NOTAM is there (we call the local air traffic tower a few hours ahead to give them a heads up, more as a courtesy than anything else as we're near Cambridge Airport). If we had to get actual permission on a per-launch basis we would never be able to launch anything, because the jet stream forecasts are only really accurate enough to be able to ascertain a sea/land landing (i.e. whether or not a launch is feasible) about 48 hours before, and we would struggle to get any permissions in that narrow a time-frame.

Regards,

- Ed Moore (M0TEK)

cuspaceflight.co.uk
flickr.com/cuspaceflight

On 26 Mar 2010, at 07:53, wb8elk@... wrote:

> Hi Mark,
>
> We think in similar ways...I just sent a comment to NBC News on that very link prior to reading your email with the link.
>

> I do congratulate Robert Harrison on spreading the word about high altitude balloons to the world. I've been in touch with him and other balloon folks in the UK via email over the past year or two now and he does a nice job working on the modified FL-digi program as well as work on the SpaceNear.us balloon tracking program along with James Coxon. There are others in his balloon group that participate in the flights there from what I understand and there is also quite a nice balloon program at Cambridge. I would assume that he didn't intend the NBC reporter to make the statement saying he was the first to have ever flown a camera into Near Space (I emailed NBC's Mike Taibbi to correct him on that statement)...I know that many of you have flown that exact Canon Powershot camera for years now. The original report in the UK also stated he held the highest altitude record for weather balloons...that may be so in the UK but not the world as many of us have exceeded his highest flight.
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> You have to understand bigtime news media....the story showing that one person can "beat NASA" for pennies compared to billions plays well and is somewhat of a editorial formula to capture the public's attention. Basically the same story was written about the MIT students and the Spanish students before that, the headlines were almost the same wording....but as those stories are months old, they are long forgotten by the very short attention span of the public by now so the formula still works.
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> The balloon groups in the UK have to surmount very difficult barriers to fly there. They have to approve their flights weeks in advance and they are not allowed to use amateur radio since the byzantine laws from their version of the FCC prohibit amateur radio in airplanes and balloons. As a consequence, they have to rely on 10 milliwatt 434 MHz transmitters running 50 baud ASCII RTTY...which is a challenge to track down for even the most experienced of us. They can't use the existing APRS network which makes our lives a lot easier here in the US. Add to that the problem of being surrounded by water and the good possibility of landing in another country.
>
> As to some of the posts I read earlier being upset about the report since many of us have been at this for decades with very little recognition....If your local media isn't interested (although you might want to hit them up now that the skillet is hot), then my advice is to reach out to the world and start up a Wiki for your group in addition to your website...and post some of your favorite photos and videos there. Sooner or later some reporter will decide to do fact checking while doing a report and see what other groups are doing. We live in a world where flashy websites get the most attention and Wiki sites have become the online Encyclopedias of today (whether they are accurate or not). The main exception to this is the elegantly plain website of Google. If you want the general public to notice your activities and accomplishments, start with a flashy website along with a Wiki... post your favorite videos on YouTube and consider doing ballooning Facebook and Twitter sites. With these kind of tools, we now have an unprecedented ability to promote our achievements to the world right from our home computers. You might want to find someone in your group who is a web guru since keeping up with all this will take a lot of time away from building payloads and launching balloons....building and maintaining a flashy website is done with a maze of new languages seemingly expanding as fast as the Universe.
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> My main concern with wide coverage reports such as this is having a batch of folks launch balloons willy-nilly without regard to doing it safely. Ever since the MIT report, I've advised quite a few newcomers on how to do this safely (including advising the MIT students during their subsequent launches) and have actually introduced a few to amateur radio. I

even suggested that the MIT students get their ham licenses and one of them has actually joined the ranks of amateur radio balloonists. This is a great way to get new blood into ham radio and the world of high altitude ballooning.
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> Let's welcome the UK balloon folks here with open arms as several of them are already on this list. They need all the support and good will we can supply them and I wish them all well in their endeavours.
>
> - Bill Brown WB8ELK
>
>
>
> -----Original Message-----
> From: Mark Garrett <ka9szx@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Mar 25, 2010 8:15 pm
> Subject: Re: [GPSL] NBC Nightly News
>
> OK
> Here is how you comment:
>
> http://www.msnbc.msn.com/id/29104230/
>
> Be sure to mention the UK balloon story by Mike Taibbi.
>
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> Here is the URL for those that did not catch the story:
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> http://www.msnbc.msn.com/id/3032619/vp/36043526#36043526
>
> Looking for a way right now to post a comment on the poor reporting of Mike Taibbi.
>
> Mark Garrett, KA9SZX
>
>
> From: Idle-Tyme <nss@...>
> To: GPSL@...m
> Sent: Thu, March 25, 2010 6:02:38 PM
> Subject: [GPSL] NBC Nightly News
>
> Any of you as disgusted as I am!?
>
> The guy in England sends a Canon Powershot aloft on a balloon and it gets world wide acclaim for being the first to do this.
>
> Is Amateur Radio soo antiquated that as soon as they hear the words Ham Radio or Amateur radio they all think we are stone age technology?
>
> Man, I get soo pissed MIT and their cell phone big freaking deal, now this guy in england and his camera,
>

> why is not any of the incredible missions we all do ever covered?
>
> Joe WB9SBD
> Near Space Sciences
> --
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>

6590. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 12:09:10 UTC
From: Barry L. Lankford
Topic: 6579 Message: 6590

ccccrnr@... wrote:
> wow the media,
>
> my wife and I just say NBC news
>
> my non-ham wife said "isn't that basicly what you guys do?
> they even have a picture with the guy posting with your kind of antenna."
>
You're right.

Mostly, it seems the balloon flights that get in the news do *less* than the typical ARHAB balloon payload. I suspect the media coverage is what these people mainly strive for. They probably spend more time writing their press releases than they do planning and building their balloon's payload.

> wonder if St. Louis can get the same coverage in May.
> Or all of us in July.
>
Apparently some of you want the attention of the media, but how many of you who launch balloons send out press releases for any of your launches? The press has hot-shot investigative reporters, but they generally cover crime and political issues (AKA "if it bleeds, it leads!").

The lowly science writers and other reporters that might cover a balloon launch aren't mind readers, they probably don't follow the Yahoo ARHAB forums, and they aren't likely to spot your balloon in the sky from their office window.

If you want recognition from the press, you should make it a practice to send out press releases prior to *every* launch. Eventually (OK, maybe on a slow news day) they may take an interest and come to a launch. It may be an eye opener for them if they come and see what's going on. Then you might even get more frequent coverage.

Go to nasa.gov and look for their press releases if you want to see examples of how it's done.

It also helps if you have some "gimmick" like the time one of our local launches sent up a package of "Peeps" with the regular payload. I saw coverage of that on ABC and CNN. When you are contacting news media about email addresses to send press releases to, check if they'll accept attached photos. Some of your photos from previous launches can be used to grab their attention, such as photos taken of the horizon from space or better yet one of those spectacular photos that catch the balloon in mid-burst, possibly a frame capture from a video.

It isn't difficult to get media attention, at least from the local media. I once called a TV station about a bogus "Water Testing Kit" I found rubber-banded to my front door knob. It was deliberately made up to look like something "Official" from the local government, but on very close inspection didn't have any mention of who really left it. It turned out to be from a well-known home water treatment company. The TV station sent out a reporter and cameraman to interview me in my front yard that very day. I didn't really want the on-camera interview, but I do hope I threw a monkey wrench into that company's deceptive advertising scheme. Point is, it just took one phone call to one TV station.

The local media frequently puts out their local stories to the wire services. So, your local balloon flight story may get picked up by national and international news services, but it doesn't hurt to directly send your press releases to the big-name news sources like CNN, The NY Times, USA Today, etc. Be sure to let them know if you will have video and photos available from your own sources, especially if you expect to have video from the payload.

If you get email addresses of people with the big-time media who appear to be at least somewhat interested, share those addresses with other groups who do ARHAB launches.

> I wonder if this is to make the public think of NASA as extremely outdated, so
> the President can sharply cut thier budget?
>
Actually, this President has *increased* NASA's budget. It was that other President that killed the shuttle but didn't fund building a replacement. The President and Congress have to provide extra funding during the development of new man-rated launch systems, but later the funding can come from the old program the new one replaces. Unfortunately, mostly what the politicians do is to constantly jerk NASA around with changing budgets and making NASA fritter away a lot of their funds re-planning and rescheduling their programs and missions to fit the constantly moving target which is their budget, and they can't build diddly until the goal stops shifting. Now, much of what they've already spent on the Constellation program will go down the drain with nothing much to show for it (I hear the design of the Ares I launch escape system has been mostly completed and might get used on one of the commercial crew launch vehicles).

If I remember correctly, NASA's funding is currently less than one percent of the "normal" Federal budget (not even counting the dilution of that figure by all the recent give-away funds to the failing financial companies with their obscene CEO bonuses). I think NASA does pretty damn good with what they're given and what with all the jerking around they have to put up with from congressional "investigations" (as if any politician knows his butt from a rocket engine).

> Sincerely,
> Carlton Corbitt
> -.- .. ....- -. .... -.-
>

Barry N4MSJ

6591. Re: How often does the WX Station update the weather data?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 14:13:01 UTC
From: k6rpt
Topic: 6578 Message: 6591

Thanks Howard for your information, everything helps.
Hi Bill, the balloon is a 1500g HE. I set the ascent at 1000, descent at 1200 and the burst at 106000. As of this morning I would have to launch from my house in San Jose, (37.25356 -121.8877) The data source I've been using is MAE, FAT and NUQ.
Thanks,
-Ron K6RPT

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Hi Ron,
>
> I get reasonably accurate predictions about 2 to 3 days from launch....in particular the 36 hour and 24 hour predictions are rather good and I find that the 18 hour in advance one (night before launch) is a good one....usually not a lot of change between that one and the morning predictions of the actual launch day unless there's an active weather front coming through.
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> So, my answer is that the night beforehand you'll have good data to work with and a good trend about 2 to 3 days beforehand.
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> - Bill WB8ELK
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> Sent: Thu, Mar 25, 2010 5:25 pm
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> Thanks,
> -Ron K6RPT
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6592. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 14:22:33 UTC
From: Alan Sieg WB5RMG
Topic: 6579 Message: 6592

> With these kind of tools, we now have an unprecedented ability
> to promote our achievements to the world right from our home computers.

New blog post: WB8ELK flying ARHAB this weekend.
http://wb5rmg.wordpress.com/ /;^) #arhab
(via http://Twitter.com/wb5rmg)

- Just following thru on discussion from earlier in the week,
- connecting the dots between various forms of the new media.
- Promote your sites in your email sig-tag at the end of each message.
- Google ranks sites in part on how many other things refer to that site.
- You gotta toot your own horn, otherwise nobody knows you're there ...

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6593. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 15:24:25 UTC
From: Mark Garrett
Topic: 6579 Message: 6593
Attachments: 1 described; binary payloads are missing from this source WARC

Bill:

As you know I did file a comment on the story. My complaint was centered on Mike Taibbi in his lack of doing ANY kind of research on what has been done, not to diminish what has been done in the UK which is fantastic. I do not know what it would take to get amateur radio involved with it there but it would be a big help if they were allowed to participate. MSNBC did not originate the story, they picked it up slapped an opinion on it, demeaning NASA and the efforts of you Bill and all the people who have done these flights for the last 23 years. All it would have taken was five minutes to see if this had been done anywhere else in the world by using a search engine and or You Tube and they would have been overwhelmed. All MSNBC did was stick a end tag on the story and broke for lunch. Very shoddy reporting that you would expect locally but not nationally.
I agree with Bill in that balloon groups take the time to issue press releases. Extend your press releases to the Amateur Radio community as well as even many local hams may not be aware of your efforts. Your efforts may bring potential hams into your area and even help out
with the flights.

Mark Garrett, KA9SZX

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Sent: Fri, March 26, 2010 2:53:40 AM
Subject: Re: [GPSL] NBC Nightly News

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- Bill Brown WB8ELK

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Be sure to mention the UK balloon story by Mike Taibbi.

Here is the URL for those that did not catch the story:

http://www.msnbc.msn.com/id/3032619/vp/36043526#36043526

Looking for a way right now to post a comment on the poor reporting of Mike Taibbi.

Mark Garrett, KA9SZX

From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, March 25, 2010 6:02:38 PM
Subject: [GPSL] NBC Nightly News

Any of you as disgusted as I am!?

The guy in England sends a Canon Powershot aloft on a balloon and it gets world wide acclaim for being the first to do this.

Is Amateur Radio soo antiquated that as soon as they hear the words Ham Radio or Amateur radio they all think we are stone age technology?

Man, I get soo pissed MIT and their cell phone big freaking deal, now this guy in england and his camera,

why is not any of the incredible missions we all do ever covered?

Joe WB9SBD
Near Space Sciences

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com/

6594. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 15:50:28 UTC
From: Idle-Tyme
Topic: 6579 Message: 6594
Attachments: 1 described; binary payloads are missing from this source WARC

On 3/26/2010 10:24 AM, Mark Garrett wrote:
> Bill:
> {snip}
> I agree with Bill in that balloon groups take the time to issue press
> releases. Extend your press releases to the Amateur Radio community
> as well as even many local hams may not be aware of your efforts.
> Your efforts may bring potential hams into your area and even help out
> with the flights.
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> Mark Garrett, KA9SZX
Very true, And with our group Near Space Sciences we have lots of help
from the local and non local hams. But up here in Wisconsin, if it has
anything to do with science, or technology, It must be done under the
umbrella of the University Of Wisconsin. If it is not. it is ignored!

And it's not like we haven't tried. we've sent pictures and actual
vdeos even to the local TV stations. Nothing, not even a reply.

One station we even have a in with, it's the local NBC affiliate of all
things. and the head engineer is a HAM too and he is even a part of pur
group at NSS. he has worked on some of the ATV payloads and has been on
the chase teams on at least 50% of the flights.

Even him working there as their head engineer, was not able to get them
to even make a 30 second blurb about the flights never mind even sending
out a crew to cover it.

The mentality up here is UW or U know nothing.

Joe WB9SBD
Near Space Sciences
>
>
>
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> *From:* "wb8elk@..." <wb8elk@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* wb8elk@...
> *Sent:* Fri, March 26, 2010 2:53:40 AM
> *Subject:* Re: [GPSL] NBC Nightly News
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> Hi Mark,
> We think in similar ways...I just sent a comment to NBC News on that
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> I do congratulate Robert Harrison on spreading the word about high

> altitude balloons to the world. I've been in touch with him and other
> balloon folks in the UK via email over the past year or two now and he
> does a nice job working on the modified FL-digi program as well as
> work on the SpaceNear.us <http://SpaceNear.us> balloon tracking
> program along with James Coxon. There are others in his balloon group
> that participate in the flights there from what I understand and there
> is also quite a nice balloon program at Cambridge. I would assume that
> he didn't intend the NBC reporter to make the statement saying he was
> the first to have ever flown a camera into Near Space (I emailed NBC's
> Mike Taibbi to correct him on that statement)...I know that many of
> you have flown that exact Canon Powershot camera for years now. The
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> record for weather balloons...that may be so in the UK but not the
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> one person can "beat NASA" for pennies compared to billions plays well
> and is somewhat of a editorial formula to capture the public's
> attention. Basically the same story was written about the MIT students
> and the Spanish students before that, the headlines were almost the
> same wording....but as those stories are months old, they are long
> forgotten by the very short attention span of the public by now so the
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> barriers to fly there. They have to approve their flights weeks in
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> byzantine laws from their version of the FCC prohibit amateur radio in
> airplanes and balloons. As a consequence, they have to rely on 10
> milliwatt 434 MHz transmitters running 50 baud ASCII RTTY...which is a
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> sites have become the online Encyclopedias of today (whether they are
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> now have an unprecedented ability to promote our achievements to the
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> balloons....building and maintaining a flashy website is done with a
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> them are already on this list. They need all the support and good will
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> Here is how you comment:
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> *From:* Idle-Tyme <nss@... <mailto:nss@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, March 25, 2010 6:02:38 PM
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6595. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 15:56:37 UTC
From: Pete Lilja
Topic: 6579 Message: 6595
Attachments: 1 described; binary payloads are missing from this source WARC

Maybe now is the time to strike with this NBC affiliate, Joe. Something like "Hey, we've been doing that here in WI for years. Take a look at these pix of..."

Pete
KC0GPB

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> Bill:
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> Very true, And with our group Near Space Sciences we have lots of help from
> the local and non local hams. But up here in Wisconsin, if it has anything
> to do with science, or technology, It must be done under the umbrella of
> the University Of Wisconsin. If it is not. it is ignored!
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> And it's not like we haven't tried. we've sent pictures and actual vdeos
> even to the local TV stations. Nothing, not even a reply.
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> One station we even have a in with, it's the local NBC affiliate of all
> things. and the head engineer is a HAM too and he is even a part of pur
> group at NSS. he has worked on some of the ATV payloads and has been on the
> chase teams on at least 50% of the flights.
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> Even him working there as their head engineer, was not able to get them to
> even make a 30 second blurb about the flights never mind even sending out a
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> *From:* "wb8elk@..." <wb8elk@...> <wb8elk@...><wb8elk@...>
> *To:* GPSL@yahoogroups.com
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> *Sent:* Fri, March 26, 2010 2:53:40 AM
> *Subject:* Re: [GPSL] NBC Nightly News
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> Hi Mark,
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> altitude balloons to the world. I've been in touch with him and other
> balloon folks in the UK via email over the past year or two now and he does
> a nice job working on the modified FL-digi program as well as work on the
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> others in his balloon group that participate in the flights there from what
> I understand and there is also quite a nice balloon program at Cambridge. I
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6596. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 15:58:13 UTC
From: Pete Lilja
Topic: 6579 Message: 6596
Attachments: 1 described; binary payloads are missing from this source WARC

I forgot to mention: The story ran again this morning on the Today Show.
Lester Holt had to joke about "taking out a jumbo jet." Man, that's one
that gets old to me. And I like Lester!

Pete
KC0GPB

On Fri, Mar 26, 2010 at 10:56 AM, Pete Lilja <plilja@...> wrote:

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> like "Hey, we've been doing that here in WI for years. Take a look at these
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6597. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 16:00:25 UTC
From: Mark Conner
Topic: 6579 Message: 6597

We were hoping to do the same with the NSTAR flight that was scheduled for tomorrow at a severe weather symposium, but the rain and a forecasted landing in the Omaha metro has forced us to cancel. Bummer.

73 de Mark N9XTN
www.nstar.org

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> like "Hey, we've been doing that here in WI for years. Take a look at these
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>>
>> ------------------------------
>> *From:* "wb8elk@..." <wb8elk@...> <wb8elk@...><wb8elk@...>
>> *To:* GPSL@yahoogroups.com
>> *Cc:* wb8elk@...
>> *Sent:* Fri, March 26, 2010 2:53:40 AM
>> *Subject:* Re: [GPSL] NBC Nightly News
>>
>> Hi Mark,
>>
>> We think in similar ways...I just sent a comment to NBC News on that
>> very link prior to reading your email with the link.
>>
>> I do congratulate Robert Harrison on spreading the word about high
>> altitude balloons to the world. I've been in touch with him and other
>> balloon folks in the UK via email over the past year or two now and he does
>> a nice job working on the modified FL-digi program as well as work on the
>> SpaceNear.us balloon tracking program along with James Coxon. There are
>> others in his balloon group that participate in the flights there from what
>> I understand and there is also quite a nice balloon program at Cambridge. I
>> would assume that he didn't intend the NBC reporter to make the statement
>> saying he was the first to have ever flown a camera into Near Space (I
>> emailed NBC's Mike Taibbi to correct him on that statement)...I know that
>> many of you have flown that exact Canon Powershot camera for years now. The
>> original report in the UK also stated he held the highest altitude record
>> for weather balloons...that may be so in the UK but not the world as many of
>> us have exceeded his highest flight.
>>
>> You have to understand bigtime news media....the story showing that one
>> person can "beat NASA" for pennies compared to billions plays well and is
>> somewhat of a editorial formula to capture the public's attention. Basically
>> the same story was written about the MIT students and the Spanish students
>> before that, the headlines were almost the same wording....but as those
>> stories are months old, they are long forgotten by the very short attention
>> span of the public by now so the formula still works.
>>
>> The balloon groups in the UK have to surmount very difficult barriers to
>> fly there. They have to approve their flights weeks in advance and they are

>> not allowed to use amateur radio since the byzantine laws from their version
>> of the FCC prohibit amateur radio in airplanes and balloons. As a
>> consequence, they have to rely on 10 milliwatt 434 MHz transmitters running
>> 50 baud ASCII RTTY...which is a challenge to track down for even the most
>> experienced of us. They can't use the existing APRS network which makes our
>> lives a lot easier here in the US. Add to that the problem of being
>> surrounded by water and the good possibility of landing in another country.
>>
>> As to some of the posts I read earlier being upset about the report
>> since many of us have been at this for decades with very little
>> recognition....If your local media isn't interested (although you might want
>> to hit them up now that the skillet is hot), then my advice is to reach out
>> to the world and start up a Wiki for your group in addition to your
>> website...and post some of your favorite photos and videos there. Sooner or
>> later some reporter will decide to do fact checking while doing a report and
>> see what other groups are doing. We live in a world where flashy websites
>> get the most attention and Wiki sites have become the online Encyclopedias
>> of today (whether they are accurate or not). The main exception to this is
>> the elegantly plain website of Google. If you want the general public to
>> notice your activities and accomplishments, start with a flashy website
>> along with a Wiki... post your favorite videos on YouTube and consider doing
>> ballooning Facebook and Twitter sites. With these kind of tools, we now have
>> an unprecedented ability to promote our achievements to the world right from
>> our home computers. You might want to find someone in your group who is a
>> web guru since keeping up with all this will take a lot of time away from
>> building payloads and launching balloons....building and maintaining a
>> flashy website is done with a maze of new languages seemingly expanding as
>> fast as the Universe.
>>
>> My main concern with wide coverage reports such as this is having a
>> batch of folks launch balloons willy-nilly without regard to doing it
>> safely. Ever since the MIT report, I've advised quite a few newcomers on how
>> to do this safely (including advising the MIT students during their
>> subsequent launches) and have actually introduced a few to amateur radio. I
>> even suggested that the MIT students get their ham licenses and one of them
>> has actually joined the ranks of amateur radio balloonists. This is a great
>> way to get new blood into ham radio and the world of high altitude
>> ballooning.
>>
>> Let's welcome the UK balloon folks here with open arms as several of
>> them are already on this list. They need all the support and good will we
>> can supply them and I wish them all well in their endeavours.
>>
>> - Bill Brown WB8ELK
>>
>>
>>

6598. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 16:05:52 UTC
From: Idle-Tyme
Topic: 6579 Message: 6598
Attachments: 2 described; binary payloads are missing from this source WARC

Did that alread last night like 5 minutes after the airing, nice letter
and video links to you tube examples of past flights.

as of this typing right now,, not a single reply yet. I'm gonna hit our
inside man again and see what he thinks.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/26/2010 10:56 AM, Pete Lilja wrote:
>
>
> Maybe now is the time to strike with this NBC affiliate, Joe.
> Something like "Hey, we've been doing that here in WI for years. Take
> a look at these pix of..."
>
> Pete
> KC0GPB
>
> On Fri, Mar 26, 2010 at 10:50 AM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
>
> On 3/26/2010 10:24 AM, Mark Garrett wrote:
>> Bill:
>> {snip}
>>
>> I agree with Bill in that balloon groups take the time to issue
>> press releases. Extend your press releases to the Amateur Radio
>> community as well as even many local hams may not be aware of
>> your efforts. Your efforts may bring potential hams into your
>> area and even help out with the flights.
>>
>> Mark Garrett, KA9SZX
> Very true, And with our group Near Space Sciences we have lots of
> help from the local and non local hams. But up here in Wisconsin,
> if it has anything to do with science, or technology, It must be
> done under the umbrella of the University Of Wisconsin. If it is
> not. it is ignored!
>
> And it's not like we haven't tried. we've sent pictures and

> actual vdeos even to the local TV stations. Nothing, not even a
> reply.
>
> One station we even have a in with, it's the local NBC affiliate
> of all things. and the head engineer is a HAM too and he is even
> a part of pur group at NSS. he has worked on some of the ATV
> payloads and has been on the chase teams on at least 50% of the
> flights.
>
> Even him working there as their head engineer, was not able to
> get them to even make a 30 second blurb about the flights never
> mind even sending out a crew to cover it.
>
> The mentality up here is UW or U know nothing.
>
>
> Joe WB9SBD
> Near Space Sciences
>>
>>
>>
>> ---
>> *From:* "wb8elk@..." <mailto:wb8elk@...> <wb8elk@...>
>> <mailto:wb8elk@...>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Cc:* wb8elk@... <mailto:wb8elk@...>
>> *Sent:* Fri, March 26, 2010 2:53:40 AM
>> *Subject:* Re: [GPSL] NBC Nightly News
>>
>> Hi Mark,
>> We think in similar ways...I just sent a comment to NBC News on
>> that very link prior to reading your email with the link.
>> I do congratulate Robert Harrison on spreading the word about
>> high altitude balloons to the world. I've been in touch with him
>> and other balloon folks in the UK via email over the past year or
>> two now and he does a nice job working on the modified FL-digi
>> program as well as work on the SpaceNear.us <http://SpaceNear.us>
>> balloon tracking program along with James Coxon. There are others
>> in his balloon group that participate in the flights there from
>> what I understand and there is also quite a nice balloon program
>> at Cambridge. I would assume that he didn't intend the NBC
>> reporter to make the statement saying he was the first to have
>> ever flown a camera into Near Space (I emailed NBC's Mike Taibbi
>> to correct him on that statement)...I know that many of you have
>> flown that exact Canon Powershot camera for years now. The
>> original report in the UK also stated he held the highest
>> altitude record for weather balloons...that may be so in the UK
>> but not the world as many of us have exceeded his highest flight.
>> You have to understand bigtime news media....the story showing
>> that one person can "beat NASA" for pennies compared to billions

>> plays well and is somewhat of a editorial formula to capture the
>> public's attention. Basically the same story was written about
>> the MIT students and the Spanish students before that, the
>> headlines were almost the same wording....but as those stories
>> are months old, they are long forgotten by the very short
>> attention span of the public by now so the formula still works.
>> The balloon groups in the UK have to surmount very difficult
>> barriers to fly there. They have to approve their flights weeks
>> in advance and they are not allowed to use amateur radio since
>> the byzantine laws from their version of the FCC prohibit amateur
>> radio in airplanes and balloons. As a consequence, they have to
>> rely on 10 milliwatt 434 MHz transmitters running 50 baud ASCII
>> RTTY...which is a challenge to track down for even the most
>> experienced of us. They can't use the existing APRS network which
>> makes our lives a lot easier here in the US. Add to that the
>> problem of being surrounded by water and the good possibility of
>> landing in another country.
>> As to some of the posts I read earlier being upset about the
>> report since many of us have been at this for decades with
>> very little recognition....If your local media isn't interested
>> (although you might want to hit them up now that the skillet is
>> hot), then my advice is to reach out to the world and start up a
>> Wiki for your group in addition to your website...and post some
>> of your favorite photos and videos there. Sooner or later some
>> reporter will decide to do fact checking while doing a report and
>> see what other groups are doing. We live in a world where flashy
>> websites get the most attention and Wiki sites have become the
>> online Encyclopedias of today (whether they are accurate or not).
>> The main exception to this is the elegantly plain website of
>> Google. If you want the general public to notice your activities
>> and accomplishments, start with a flashy website along with a
>> Wiki... post your favorite videos on YouTube and consider doing
>> ballooning Facebook and Twitter sites. With these kind of tools,
>> we now have an unprecedented ability to promote our achievements
>> to the world right from our home computers. You might want to
>> find someone in your group who is a web guru since keeping up
>> with all this will take a lot of time away from building payloads
>> and launching balloons....building and maintaining a flashy
>> website is done with a maze of new languages seemingly expanding
>> as fast as the Universe.
>> My main concern with wide coverage reports such as this is
>> having a batch of folks launch balloons willy-nilly without
>> regard to doing it safely. Ever since the MIT report, I've
>> advised quite a few newcomers on how to do this safely (including
>> advising the MIT students during their subsequent launches) and
>> have actually introduced a few to amateur radio. I even suggested
>> that the MIT students get their ham licenses and one of them has
>> actually joined the ranks of amateur radio balloonists. This is a
>> great way to get new blood into ham radio and the world of high
>> altitude ballooning.

>>
>> Let's welcome the UK balloon folks here with open arms as
>> several of them are already on this list. They need all the
>> support and good will we can supply them and I wish them all well
>> in their endeavours.
>> - Bill Brown WB8ELK
>>
>>
>> -----Original Message-----
>> From: Mark Garrett <ka9szx@...> <mailto:ka9szx@...>
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Sent: Thu, Mar 25, 2010 8:15 pm
>> Subject: Re: [GPSL] NBC Nightly News
>>
>> OK
>> Here is how you comment:
>>
>> http://www.msnbc.msn.com/id/29104230/
>>
>> Be sure to mention the UK balloon story by Mike Taibbi.
>>
>>
>> Here is the URL for those that did not catch the story:
>>
>> http://www.msnbc.msn.com/id/3032619/vp/36043526#36043526
>>
>> Looking for a way right now to post a comment on the poor
>> reporting of Mike Taibbi.
>>
>> Mark Garrett, KA9SZX
>>
>>
>> ---
>> *From:* Idle-Tyme <nss@... <mailto:nss@...>>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Sent:* Thu, March 25, 2010 6:02:38 PM
>> *Subject:* [GPSL] NBC Nightly News
>>
>> Any of you as disgusted as I am!?
>>
>> The guy in England sends a Canon Powershot aloft on a balloon and
>> it gets world wide acclaim for being the first to do this.
>>
>> Is Amateur Radio soo antiquated that as soon as they hear the
>> words Ham Radio or Amateur radio they all think we are stone age
>> technology?
>>
>> Man, I get soo pissed MIT and their cell phone big freaking
>> deal, now this guy in england and his camera,
>>

>> why is not any of the incredible missions we all do ever covered?
>>
>> Joe WB9SBD
>> Near Space Sciences
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://idle-tyme.com/>
>> http://www.idle-tyme.com/
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6599. Re: [GPSL] NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 16:34:49 UTC
From: Robert Rochte
Topic: 6579 Message: 6599

I have to agree with the comments about press releases and media contacts. They are certainly willing to pick up stories if you have a story to tell and can help make it relevant.

My flights at GPA have been covered by Mike Wendland (a nationally syndicated columnist for the Detroit Free Press and also a ham) including a mention in his MSNBC blog. Local papers have covered my balloons in a number of places where they have landed - and don't forget that CBC Radio did a live interview with both me and the fellow who found our balloon in New Brunswick a couple of years ago.

If you have a story to tell, the media will generally report it. But they're not monitoring this list and they're not checking APRS for a balloon aloft. So tell them about your flights, each and every time, and include the stories (i.e., the people) behind the technology.

-R, KC8UCH

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-378-0525

6600. Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 17:08:09 UTC
From: kentochs
Topic: 6579 Message: 6600

The irony of this all just hit me.....

This is news to NASA? Isn't the guy who has been doing this for over 20 years, Bill Brown, a NASA engineer?

Kent W9KAO
--- In GPSL@yahoogroups.com, Idle-Tyme <nss@...> wrote:
>
> Any of you as disgusted as I am!?
>
> The guy in England sends a Canon Powershot aloft on a balloon and it
> gets world wide acclaim for being the first to do this.
>
> Is Amateur Radio soo antiquated that as soon as they hear the words Ham
> Radio or Amateur radio they all think we are stone age technology?
>
> Man, I get soo pissed MIT and their cell phone big freaking deal,
> now this guy in england and his camera,
>
> why is not any of the incredible missions we all do ever covered?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6601. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 17:24:44 UTC
From: Idle-Tyme
Topic: 6579 Message: 6601
Attachments: 1 described; binary payloads are missing from this source WARC

he he he Our Government in it's truest form!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/26/2010 12:08 PM, kentochs wrote:
> The irony of this all just hit me.....
>
> This is news to NASA? Isn't the guy who has been doing this for over 20 years, Bill Brown, a NASA engineer?
>
> Kent W9KAO
> --- In GPSL@yahoogroups.com, Idle-Tyme<nss@...> wrote:
>
>> Any of you as disgusted as I am!?
>>
>> The guy in England sends a Canon Powershot aloft on a balloon and it
>> gets world wide acclaim for being the first to do this.
>>
>> Is Amateur Radio soo antiquated that as soon as they hear the words Ham
>> Radio or Amateur radio they all think we are stone age technology?
>>
>> Man, I get soo pissed MIT and their cell phone big freaking deal,
>> now this guy in england and his camera,
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>> why is not any of the incredible missions we all do ever covered?
>>
>> Joe WB9SBD
>> Near Space Sciences
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
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> Yahoo! Groups Links
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6602. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 17:33:40 UTC
From: Ed Moore
Topic: 6579 Message: 6602

This nicely sums up what you're up against with the media's understanding of science and technology:

http://sprott.physics.wisc.edu/Pickover/pc/cnn_shuttle.jpg

- Ed

On 26 Mar 2010, at 17:24, Idle-Tyme wrote:

> he he he Our Government in it's truest form!
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 3/26/2010 12:08 PM, kentochs wrote:
>> The irony of this all just hit me.....
>>
>> This is news to NASA? Isn't the guy who has been doing this for over 20 years, Bill Brown, a NASA engineer?
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>> Kent W9KAO
>> --- In
>> GPSL@yahoogroups.com, Idle-Tyme <nss@...>
>> wrote:
>>
>>
>>> Any of you as disgusted as I am!?
>>>
>>> The guy in England sends a Canon Powershot aloft on a balloon and it
>>> gets world wide acclaim for being the first to do this.
>>>
>>> Is Amateur Radio soo antiquated that as soon as they hear the words Ham
>>> Radio or Amateur radio they all think we are stone age technology?
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>>> now this guy in england and his camera,
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>>> Near Space Sciences
>>> --
>>>
>>> The Original Rolling Ball Clock

>>> Idle Tyme
>>> Idle-Tyme.com
>>>
>>> http://www.idle-tyme.com
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>>
>> Yahoo! Groups Links
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>> (Yahoo! ID required)
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>> GPSL-fullfeatured@yahoogroups.com
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6603. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 17:49:33 UTC
From: Idle-Tyme
Topic: 6579 Message: 6603
Attachments: 1 described; binary payloads are missing from this source WARC

he he he that's awesome!
WARP 18, that faster than the Enterprise.

Scotty better go back to school!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/26/2010 12:33 PM, Ed Moore wrote:
> This nicely sums up what you're up against with the media's understanding of science and technology:
>
> http://sprott.physics.wisc.edu/Pickover/pc/cnn_shuttle.jpg
>
> - Ed
>
>
> On 26 Mar 2010, at 17:24, Idle-Tyme wrote:
>
>
>> he he he Our Government in it's truest form!
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
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>>>
>>>
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>>>> Radio or Amateur radio they all think we are stone age technology?
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>>>> now this guy in england and his camera,
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>>> Yahoo! Groups Links
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>>> GPSL-fullfeatured@yahoogroups.com
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> Yahoo! Groups Links
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6604. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 19:33:06 UTC
From: Alan Sieg WB5RMG
Topic: 6579 Message: 6604

> The irony of this all just hit me.....
>
> This is news to NASA? Isn't the guy who has been doing this for over 20
> years, Bill Brown, a NASA engineer?
>
> Kent W9KAO

Actually - No.
Bill does work here on the Redstone Arsenal (where MSFC is located),
but not for NASA. He does have a NASA hat tho... but so does my Dad.

NASA is not new to balloons, the original pre-satellite balloon was a
big reflective gas bag that bounced radio signals back to earth.
Check http://en.wikipedia.org/wiki/Project_Echo

Check http://sites.wff.nasa.gov/code820/ (Wallops Island)
http://www.nsbf.nasa.gov/ (Columbia launch facility in Palestine, TX)

I'm sure some on the list know of these, but I'm sure many don't.
Talk about some big gas bags !!!
/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6605. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 19:40:09 UTC
From: Alan Sieg WB5RMG
Topic: 6579 Message: 6605

> This nicely sums up what you're up against with the media's understanding of
> science and technology:
>
> http://sprott.physics.wisc.edu/Pickover/pc/cnn_shuttle.jpg
>
> - Ed

WOW ! - It's no wonder that Columbia broke up on re-entry...
I thought you could only go that fast outside of the earth's atmosphere,
or maybe better - outside of this solar system . . .
/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6606. Re: [GPSL] Re: NBC Nightly News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 21:48:35 UTC
From: wb8elk@aol.com
Topic: 6579 Message: 6606

I'm not a direct employee of NASA. I have worked on several NASA funded projects over the years, a Marshall funded rockoon in the Gulf of Mexico and a Dryden funded balloon rocket glider also launched from the Gulf a year later, but mostly have worked on military systems at the Redstone Arsenal as a contractor engineer. I wear the NASA hat particularly when flying balloons that have been funded by NASA Space Grants.

- Bill WB8ELK

-----Original Message-----
From: Alan Sieg WB5RMG <wb5rmg@...>
To: GPSL@yahoogroups.com
Sent: Fri, Mar 26, 2010 2:33 pm
Subject: Re: [GPSL] Re: NBC Nightly News

> The irony of this all just hit me.....
>
> This is news to NASA? Isn't the guy who has been doing this for over 20
> years, Bill Brown, a NASA engineer?
>
> Kent W9KAO

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but not for NASA. He does have a NASA hat tho... but so does my Dad.

NASA is not new to balloons, the original pre-satellite balloon was a
big reflective gas bag that bounced radio signals back to earth.
Check http://en.wikipedia.org/wiki/Project_Echo

Check http://sites.wff.nasa.gov/code820/ (Wallops Island)
http://www.nsbf.nasa.gov/ (Columbia launch facility in Palestine, TX)

I'm sure some on the list know of these, but I'm sure many don't.
Talk about some big gas bags !!!
/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6607. Launch site.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-26 22:35:29 UTC
From: k6rpt
Topic: 6607 Message: 6607

Hi Bill, the balloon is a 1500g HE. I set the ascent at 1000, descent at 1200 and the burst at 106000. As of this morning I would have to launch from my house in San Jose, (37.25356 -121.8877) The data source I've been using is MAE, FAT and NUQ. The payload weight is 2 lbs 9 oz.
Thanks,
-Ron K6RPT

6608. K6RPT-12 has been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-28 02:38:50 UTC
From: k6rpt
Topic: 6608 Message: 6608

K6RPT-12 has been recovered. I was running in an orchard to catch it and it landed in a 15 foot tree above me, if the tree wasn't there I would have been able to catch it. The cross band repeater worked well. I still have to download the data from the BalloonSat Mini.
-Ron K6RPT

6609. Mini video camera tests during todays flights in Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-28 06:05:01 UTC
From: wb8elk@aol.com
Topic: 6609 Message: 6609

We tested out two new video cameras to see how they'd work on a balloon....the Tachyon helmet cam was flown by Jodie Tinker as an 8th grade science fair project...she won the regional with her first flight video and is now going to state competition with new footage flown today...and the second camera was the SPV micro camera that was discussed a week or so ago here on the list from Hobby Partz....it weighs just 18 grams....here's the results:

Here's a link to a photo gallery I just put together of some of the launch photos.

https://www.dropbox.com/gallery/4208641/1/BalloonFlights032710?h=9331b5&p=1

In addition there are some still frames I grabbed off the video taken with my 18 gram micro video camera....it was completely exposed to the elements and just held to the outside of Jodie's Science Fair payload with duct tape and lasted all the way up to about 33,000 feet before freezing up. Although low-res compared to a Flip Ultra camcorder it produces surprisingly good video and sound for such a small and cheap camera ($59 which included a 2 Gig microSD card). It's called the SPV camera and is used a lot in RC aircraft...I expect that with additional insulation and by adding an external battery pack it would work well throughout a balloon mission...it comes with a 2 gig microSD card that allows 2 hours of record time...but can handle up to an 8 gig card for 8 hours duration.

http://www.hobbypartz.com/smvicarewfr2.html

Jodie's helmet camera (made by Tachyon) worked great as you can see from the nice blackness of Near Space shots....this time she had it doing a still frame photo every 2 seconds....it was still snapping away at the landing sight so needless to say they have a boatload of photos to look at.

http://www.tachyoninc.com/

There are some very nice shots of UAH, the Saturn V rocket and the Space and Rocket Museum taken during the first few minutes of liftoff....you'll also note a jet zipping along with a nice contrail as we were at about 33,000 feet.

- Bill WB8ELK

PS...both payloads were recovered...SHC's was just east of Chattanooga and Jodie's was in the woods near Cleveland TN.

6610. HAB in the media

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-29 17:16:46 UTC
From: Robert Harrison
Topic: 6610 Message: 6610

Hi all,

I'm rather embarrassed how much media attention the Icarus Project received over the last week.

Anyhow on CNN this morning I have tried to get across that there are many people doing this in the US on CNN this morning.

Hopefully you guys will get the recognition you deserve. I really have no idea why this when so viral...

Apologies all and wake your media guys up to their own backyard.

http://edition.cnn.com/video/#/video/us/2010/03/29/am.intv.harrison.space.pics.cnn?iref=24hours

Robert

Some other media include :-

BBC UK<http://news.bbc.co.uk/1/hi/sci/tech/8588156.stm>

ITV UK<http://www.itv.com/news/diy-space-mission67582/>

SKY News<http://news.sky.com/skynews/Home/video/Robert-Harrison-Balloon-Pictures-From-Space/Video/201003415582209?lid=VIDEO_15582209_RobertHarrisonBalloonPicturesFromSpace&lpos=searchresults>

Countdown USA NBC<http://www.msnbc.msn.com/id/21134540/vp/36049710#36060447>

The TodayShow USA NBC<http://www.msnbc.msn.com/id/21134540/vp/36049710#36063922>

The TodayShow USA NBC #2<http://www.msnbc.msn.com/id/21134540/vp/36049710#36049710>

Sunrise Australia Channel7<http://au.tv.yahoo.com/sunrise/video/play/-/6991947/snaps-from-space/>

6611. Re: [GPSL] HAB in the media

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-29 18:32:16 UTC
From: Michael Willett
Topic: 6610 Message: 6611

Robert, Great Job in providing a good AHAB overview, information and citing previous AHAB history in the report on CNN! My hat's off to you to set the record straight. Again, Great Job!

My biggest concern was not with the bad reporting regarding your achievement as much as the spawned interest resulting in others going out and launching balloons without concern for the safety of others - (balloon boy - lawn chair man) - and work with the fact we share our airspace with a lot of aircraft that also have a right to be there. You have to admit the "Wow!" factor was high (no pun intended) which would draw a lot of people to launch balloons in a very uninformed manner.

As an airplane pilot and AHAB team member, I am so very, very happy you mentioned the needed coordination with the FAA. On every one of our flights, the FAA have great to work with, but also genuinely interested and facilitating in all aspects of the flight. I feel it is imperative that we continue to involve the FAA or equivalents in other countries to keep this AHAB privilege alive. It will only take one strike or near miss from any commercial aircraft that had no idea the balloon was in shared airspace to ruin it for all of us.

I am not sure what is used in the UK for flight coordination, but here is an overview of what we do for ARBONET flights, along with issuing a NOTAM:

http://www.arbonet.net/FlightSafety.html

--Michael

K5NOT

On 3/29/2010 12:16 PM, Robert Harrison wrote:
>
> Hi all,
>
> I'm rather embarrassed how much media attention the Icarus Project
> received over the last week.
>
> Anyhow on CNN this morning I have tried to get across that there are
> many people doing this in the US on CNN this morning.
>
> Hopefully you guys will get the recognition you deserve. I really have
> no idea why this when so viral...
>
> Apologies all and wake your media guys up to their own backyard.
>
> http://edition.cnn.com/video/#/video/us/2010/03/29/am.intv.harrison.space.pics.cnn?iref=

24hours
> <http://edition.cnn.com/video/#/video/us/2010/03/29/am.intv.harrison.space.pics.cnn?iref
=24hours>
>
> Robert
>
> Some other media include :-
>
> BBC UK <http://news.bbc.co.uk/1/hi/sci/tech/8588156.stm>
>
> ITV UK <http://www.itv.com/news/diy-space-mission67582/>
>
> SKY News
> <http://news.sky.com/skynews/Home/video/Robert-Harrison-Balloon-Pictures-From-Space/Vide
o/201003415582209?lid=VIDEO_15582209_RobertHarrisonBalloonPicturesFromSpace&lpos=searchres
ults>
>
> Countdown USA NBC
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36060447>
>
> The TodayShow USA NBC
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36063922>
>
> The TodayShow USA NBC #2
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36049710>
>
> Sunrise Australia Channel7
> <http://au.tv.yahoo.com/sunrise/video/play/-/6991947/snaps-from-space/>
>
>

6612. NYT ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-29 18:40:00 UTC
From: Pete Lilja
Topic: 6612 Message: 6612

I just got off the phone with a reporter from the New York times doing a story on CHDK (the control scripting for Canon Powershot cameras). He 'cold emailed' me wanting to know how I had used CHDK.

So, you NYT science section readers keep an eye out for some brief HAB stuff soon.

Pete
KC0GPB

6613. Re: [GPSL] HAB in the media

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-29 19:22:41 UTC
From: Mark Conner
Topic: 6610 Message: 6613

Hi Robert,

I think everyone else was surprised as well, especially given the lack of interest most of us have experienced from the media. Nobody really begrudges you the coverage, though - you obviously got success in that area.

Most of the "disappointment" was the lack of context in the coverage, which was not of your making. That's the added value the reporter is supposed to provide, otherwise he may as well send press releases straight to air.

We high-altitude balloonists in the US are fortunate to be able to use ham radio so freely for our balloon payloads. To make a go of it at all, given the constraints UK high-altitude balloonists face, is pretty impressive - you guys really have to push the envelope to make it all work (not to mention being surrounded by nearby water!).

73 de Mark N9XTN
www.nstar.org

On Mon, Mar 29, 2010 at 12:16, Robert Harrison <rharrison@...> wrote:

> Hi all,
>
>
>
> I'm rather embarrassed how much media attention the Icarus Project received
> over the last week.
>
>
>
> Anyhow on CNN this morning I have tried to get across that there are many
> people doing this in the US on CNN this morning.
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> Hopefully you guys will get the recognition you deserve. I really have no
> idea why this when so viral...
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>
> Apologies all and wake your media guys up to their own backyard.
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>
>

> http://edition.cnn.com/video/#/video/us/2010/03/29/am.intv.harrison.space.pics.cnn?iref=24hours
>
>
>
> Robert
>
>
>
> Some other media include :-
>
>
>
> BBC UK <http://news.bbc.co.uk/1/hi/sci/tech/8588156.stm>
>
> ITV UK <http://www.itv.com/news/diy-space-mission67582/>
>
> SKY News<http://news.sky.com/skynews/Home/video/Robert-Harrison-Balloon-Pictures-From-Space/Video/201003415582209?lid=VIDEO_15582209_RobertHarrisonBalloonPicturesFromSpace&lpos=searchresults>
>
> Countdown USA NBC<http://www.msnbc.msn.com/id/21134540/vp/36049710#36060447>
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> The TodayShow USA NBC<http://www.msnbc.msn.com/id/21134540/vp/36049710#36063922>
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> The TodayShow USA NBC #2<http://www.msnbc.msn.com/id/21134540/vp/36049710#36049710>
>
> Sunrise Australia Channel7<http://au.tv.yahoo.com/sunrise/video/play/-/6991947/snaps-from-space/>
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6614. Balloon Nozzle Plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 00:33:11 UTC
From: Pete Lilja
Topic: 6614 Message: 6614

Having borrowed the idea from Mike Manes I have machined several balloon nozzle fill / plug PVC fittings like linked here:
http://s33.photobucket.com/albums/d94/bigheadpete/?action=view¤t=IMG_0008.jpg
These things have worked really well in the 1200 gram balloons we've flown using this system.

If anyone would be interested I have gotten my machining technique down so that I can make these relatively quickly and easily. If anyone would be interested in having one I'd be happy to make some more and send them for the cost of materials, postage and the envelope which would be around $5 / ea. in the US.

If interested email me:

Pete: plilja at cfu.net

Thanks,

Pete
KC0GPB

6615. Re: [GPSL] HAB in the media

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 02:41:00 UTC
From: Mike Manes
Topic: 6610 Message: 6615

During "Morning Edition" today, they ran a BBC interview with the UK balloonist, who kink of poo-poo'ed all the attention, and pointed out that he'd drawn heavily on many of the US ARHAB web sites, and even named our very own Bill Brown as having taken thousands of similar pictures over the years.

Nice to get some professional journalism every now and then.

73 de Mike W5VSI

On 3/29/2010 12:22, Mark Conner wrote:
>
>
> Hi Robert,
>
> I think everyone else was surprised as well, especially given the lack
> of interest most of us have experienced from the media. Nobody really
> begrudges you the coverage, though - you obviously got success in that
> area.
>
> Most of the "disappointment" was the lack of context in the coverage,
> which was not of your making. That's the added value the reporter is
> supposed to provide, otherwise he may as well send press releases
> straight to air.
>
> We high-altitude balloonists in the US are fortunate to be able to use
> ham radio so freely for our balloon payloads. To make a go of it at
> all, given the constraints UK high-altitude balloonists face, is pretty
> impressive - you guys really have to push the envelope to make it all
> work (not to mention being surrounded by nearby water!).
>
> 73 de Mark N9XTN
> www.nstar.org <http://www.nstar.org>
>
>
> On Mon, Mar 29, 2010 at 12:16, Robert Harrison <rharrison@...
> <mailto:rharrison@...>> wrote:
>
> Hi all,
>
> I’m rather embarrassed how much media attention the Icarus Project
> received over the last week.
>
> Anyhow on CNN this morning I have tried to get across that there are
> many people doing this in the US on CNN this morning.
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> Hopefully you guys will get the recognition you deserve. I really
> have no idea why this when so viral...
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>
> http://edition.cnn.com/video/#/video/us/2010/03/29/am.intv.harrison.space.pics.cnn?iref=
24hours
>
> Robert
>
> Some other media include :-
>
> BBC UK <http://news.bbc.co.uk/1/hi/sci/tech/8588156.stm>
>
> ITV UK <http://www.itv.com/news/diy-space-mission67582/>
>
> SKY News
> <http://news.sky.com/skynews/Home/video/Robert-Harrison-Balloon-Pictures-From-Space/Vide
o/20100341558209?lid=VIDEO_15582209_RobertHarrisonBalloonPicturesFromSpace&lpos=searchres
ults>
>
> Countdown USA NBC
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36060447>
>
> The TodayShow USA NBC
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36063922>
>
> The TodayShow USA NBC #2
> <http://www.msnbc.msn.com/id/21134540/vp/36049710#36049710>
>
> Sunrise Australia Channel7
> <http://au.tv.yahoo.com/sunrise/video/play/-/6991947/snaps-from-space/>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6616. Re: [GPSL] Balloon Nozzle Plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 04:01:19 UTC
From: wb8elk@aol.com
Topic: 6614 Message: 6616

Hi Pete...drill a 1/16" hole in the end plug and you then have a pinhole floater balloon.

- Bill WB8ELK

-----Original Message-----
From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Mon, Mar 29, 2010 7:33 pm
Subject: [GPSL] Balloon Nozzle Plug

Having borrowed the idea from Mike Manes I have machined several balloon nozzle fill / plug PVC fittings like linked here: http://s33.photobucket.com/albums/d94/bigheadpete/?action=view?t=IMG_0008.jpg These things have worked really well in the 1200 gram balloons we've flown using this system.

If anyone would be interested I have gotten my machining technique down so that I can make these relatively quickly and easily. If anyone would be interested in having one I'd be happy to make some more and send them for the cost of materials, postage and the envelope which would be around $5 / ea. in the US.

If interested email me:

Pete: plilja at cfu.net

Thanks,

Pete
KC0GPB

6617. Re: NSSTC Balloonacy 20100327

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 04:11:50 UTC
From: Alan Sieg WB5RMG
Topic: 6617 Message: 6617

Photos I took Saturday 20100327 @ NSSTC Balloonacy Event:
Bill - WB8ELK has described everything quite well, so I won't.
Pardon the duplicate deliveries, if you get more than one copy of this;
I didn't want to miss anyone that was included on Bill's earlier message.

http://www.dropbox.com/gallery/1931686/1/Balloonacy_20100327?h=a519cf

Jodie - If you would like any of these for use in your project,
I have the full resolution pics available...

Thanks /;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6618. Re: [GPSL] Balloon Nozzle Plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 05:27:45 UTC
From: Mike Manes
Topic: 6614 Message: 6618

Hi Pete,

Wow! That's a pretty deep cut, but it sure does make for a good grip
on the balloon neck, and it also makes a nice, flat flange for the lift
line, to boot. Nice work!

73 de Mike W5VSI

On 3/29/2010 17:33, Pete Lilja wrote:
>
>
> Having borrowed the idea from Mike Manes I have machined several balloon
> nozzle fill / plug PVC fittings like linked here:
> http://s33.photobucket.com/albums/d94/bigheadpete/?action=view¤t=IMG_0008.jpg
> <http://s33.photobucket.com/albums/d94/bigheadpete/?action=view¤t=IMG_0008.jpg>
> These things have worked really well in the 1200 gram balloons we've
> flown using this system.
>
> If anyone would be interested I have gotten my machining technique down
> so that I can make these relatively quickly and easily. If anyone would
> be interested in having one I'd be happy to make some more and send them
> for the cost of materials, postage and the envelope which would be
> around $5 / ea. in the US.
>
> If interested email me:
>
> Pete: plilja at cfu.net <http://cfu.net>
>
> Thanks,
>
> Pete
> KC0GPB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6619. Standing on the shoulders of giants

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 10:53:48 UTC
From: Robert Harrison
Topic: 6619 Message: 6619

A bit more on the BBC World Service promoting Bill Brown and others in the US ...

http://www.bbc.co.uk/worldservice/programmes/2010/03/100329_outlook_moon_balloon.shtml

Robert

6620. Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 13:21:28 UTC
From: Pete Lilja
Topic: 6620 Message: 6620

As I've mentioned several times before I also have the hobby of flying rockets. One well known rocket flier / builder has created a pretty cool app. for his flights.

What he has done is created a computer program that uses the voice of 'Kate' to narrate his rocket flights in real-time. As I understand it his on-field laptop simply receives the telemetry data from the GPS / transmitter equipped rocket and the voice of 'Kate' narates the flight aloud in real time. You can listen to recordings of some flights and get a better idea here: http://www.vernk.com/PhotosOfAngelfire.htm

I'm not computer savvy enough to do the same but I'd bet there are HABists here that are. Not only is it pretty cool and fun I could see it being helpful while driving to recover a HAB payload.

Just thought I'd share this. Take it for what it's worth.

Pete
KC0GPB

6621. Re: [Balloon_Sked] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 13:44:26 UTC
From: Keith Kaiser
Topic: 6620 Message: 6621

OK, now this is cool. I'm not really into these 3 or 4 minute rocket flights but narrating it in real time is very cool. I'd love to do this with our balloon flights. Use one of the output ports on Xastir to feed the telemetry into the script running the voice synthesizer on my Mac.

On Mar 30, 2010, at 8:21 AM, Pete Lilja wrote:

> As I've mentioned several times before I also have the hobby of flying rockets. One well known rocket flier / builder has created a pretty cool app. for his flights.
>
> What he has done is created a computer program that uses the voice of 'Kate' to narrate his rocket flights in real-time. As I understand it his on-field laptop simply receives the telemetry data from the GPS / transmitter equipped rocket and the voice of 'Kate' narates the flight aloud in real time. You can listen to recordings of some flights and get a better idea here: http://www.vernk.com/PhotosOfAngelfire.htm
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>
> Just thought I'd share this. Take it for what it's worth.
>
> Pete
> KC0GPB
>

6622. Re: [Balloon_Sked] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 13:51:08 UTC
From: Mark Conner
Topic: 6620 Message: 6622

I'm working on a similar thing for a NSTAR flight this year, except it will narrate it from the balloon on 446.30 MHz. It'll read off lat, lon, course, speed, altitude, and ascent/descent rate. This was inspired by the ARBONET flight at GPSL last year, who have something similar.

The hardware to do this consists of an Arduino, a WaveShield to interface an SD card full of voice snippets, and a GPS. You parse the GPS data, decided what phrases to say, then tell the WaveShield to play them on the radio.

73 de Mark N9XTN

On Tue, Mar 30, 2010 at 08:21, Pete Lilja <plilja@...> wrote:

>
>
> As I've mentioned several times before I also have the hobby of flying
> rockets. One well known rocket flier / builder has created a pretty cool
> app. for his flights.
>
> What he has done is created a computer program that uses the voice of
> 'Kate' to narrate his rocket flights in real-time. As I understand it his
> on-field laptop simply receives the telemetry data from the GPS /
> transmitter equipped rocket and the voice of 'Kate' narates the flight aloud
> in real time. You can listen to recordings of some flights and get a better
> idea here: http://www.vernk.com/PhotosOfAngelfire.htm
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> I'm not computer savvy enough to do the same but I'd bet there are HABists
> here that are. Not only is it pretty cool and fun I could see it being
> helpful while driving to recover a HAB payload.
>
> Just thought I'd share this. Take it for what it's worth.
>
> Pete
> KC0GPB
>

6623. Re: [GPSL] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 14:17:06 UTC
From: Idle-Tyme
Topic: 6620 Message: 6623
Attachments: 1 described; binary payloads are missing from this source WARC

Now that is pretty cool,

Does the audio come from the rocket? or from the ground decoded from
telemetry that came from the rocket?

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 3/30/2010 8:21 AM, Pete Lilja wrote:
>
>
> As I've mentioned several times before I also have the hobby of flying
> rockets. One well known rocket flier / builder has created a pretty
> cool app. for his flights.
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> Just thought I'd share this. Take it for what it's worth.
>
> Pete
> KC0GPB
>
>
>

6624. ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 16:18:43 UTC
From: Michael Willett
Topic: 6620 Message: 6624

The ARBONET voice beacon uses an Grand Studios Emic Text to Speech module. These have been discontinued, which is sad, they are very nice units, even at $75.00...

Here is an example of the ARBONET voice beacon, it plays in the background of this page if your ISP and browser allows it to play:

http://www.arbonet.net/ARBONET%20TRACKING.html

This is off of a receiving radio / PC using scanner recorder at my home about 100-120 miles from the flight. My audio is slightly over-driven, but it is still quite usable. I don't have the GPSL recording handy, however I feel it was quite a bit clearer.

I can send the example MP3 to you direct if you can't listen to it on the web page.

--Michael

K5NOT

On 3/30/2010 8:51 AM, Mark Conner wrote:
>
> I'm working on a similar thing for a NSTAR flight this year, except it
> will narrate it from the balloon on 446.30 MHz. It'll read off lat,
> lon, course, speed, altitude, and ascent/descent rate. This was
> inspired by the ARBONET flight at GPSL last year, who have something
> similar.
>
> The hardware to do this consists of an Arduino, a WaveShield to
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> GPS data, decided what phrases to say, then tell the WaveShield to
> play them on the radio.
>
> 73 de Mark N9XTN
>
>
> On Tue, Mar 30, 2010 at 08:21, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
>
>
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> flying rockets. One well known rocket flier / builder has created
> a pretty cool app. for his flights.
>
> What he has done is created a computer program that uses the voice

> of 'Kate' to narrate his rocket flights in real-time. As I
> understand it his on-field laptop simply receives the telemetry
> data from the GPS / transmitter equipped rocket and the voice of
> 'Kate' narates the flight aloud in real time. You can listen to
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> <http://www.vernk.com/PhotosOfAngelfire.htm>
>
> I'm not computer savvy enough to do the same but I'd bet there are
> HABists here that are. Not only is it pretty cool and fun I could
> see it being helpful while driving to recover a HAB payload.
>
> Just thought I'd share this. Take it for what it's worth.
>
> Pete
> KC0GPB
>
>
>

6625. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 16:28:43 UTC
From: Keith Kaiser
Topic: 6620 Message: 6625

That sounds good Michael.

I wonder if its better to have the electronics in the balloon doing the voice stuff or would it be nearly as good to just have it local at the laptop. Obviously if it's on the balloon then everyone can hear it, but on the other hand it's more electronics, more batteries, more cost, more to lose, etc.

Just a conversation point, I have no opinion of my own yet.

On Mar 30, 2010, at 11:18 AM, Michael Willett wrote:

>
> The ARBONET voice beacon uses an Grand Studios Emic Text to Speech module. These have been discontinued, which is sad, they are very nice units, even at $75.00...
>
> Here is an example of the ARBONET voice beacon, it plays in the background of this page if your ISP and browser allows it to play:
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> http://www.arbonet.net/ARBONET%20TRACKING.html
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> --Michael
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> K5NOT
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>> 73 de Mark N9XTN

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>> I'm not computer savvy enough to do the same but I'd bet there are HABists here that are. Not only is it pretty cool and fun I could see it being helpful while driving to recover a HAB payload.
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>> Just thought I'd share this. Take it for what it's worth.
>>
>> Pete
>> KC0GPB
>>
>
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>

6626. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 17:15:03 UTC
From: Michael Willett
Topic: 6620 Message: 6626

The ARBONET 1 flight voice beacon was a team effort, I designed and assembled the hardware and a friend of mine, Mark Culross KD5XRTof the Lockheed club stepped up to the plate and debugged the hardware and worked diligently on the programming. It was great to see the plan come together and anyone with a 2 meter radio or scanner could listen in on the action. I think another motivation was that I was having a hard time getting APRS in my truck! :) It will be a part of as many ARBONET flights as possible in the future.

--Michael

On 3/30/2010 11:28 AM, Keith Kaiser wrote:
>
> That sounds good Michael.
>
>
> I wonder if its better to have the electronics in the balloon doing
> the voice stuff or would it be nearly as good to just have it local at
> the laptop. Obviously if it's on the balloon then everyone can hear
> it, but on the other hand it's more electronics, more batteries, more
> cost, more to lose, etc.
>
> Just a conversation point, I have no opinion of my own yet.
>
> On Mar 30, 2010, at 11:18 AM, Michael Willett wrote:
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>> module. These have been discontinued, which is sad, they are very
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>>> Pete
>>> KC0GPB
>>>
>>>

>>
>>
>
>

6627. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 17:36:13 UTC
From: L. Paul Verhage
Topic: 6620 Message: 6627

I've wondered if we could incorporate this into a FRS radio and get the
range so anyone near the ground track could listen in the mission.

Perhaps by modifying the antenna on the FRS radio? Is that even legal?

Paul "I got out for good behavior" Verhage

On Tue, Mar 30, 2010 at 12:15 PM, Michael Willett <mw@...> wrote:

>
>
>
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> assembled the hardware and a friend of mine, Mark Culross KD5XRTof the
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>> Pete
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Onwards and Upwards,
Paul

6628. Re: [GPSL] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-30 18:42:28 UTC
From: Bruce
Topic: 6620 Message: 6628
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Everyone

I've built a program to do exactly this. It's really designed as a telemetry "dashboard" application. It displays Lat, Lon, Speed, Course, and climb/descent rates. It also calculates a prediction of where it will be in one minute, primarily for landing prediction. It also speaks the altitude with each report using MS text to speech. It's was originally designed with UI-View in mind but I made it more generic now and it will work with any program that will accept an telnet connection on port 14439. It also reports the telemetry from my OpenTracker based tracker. All of the settings are hard coded so it's not very flexible yet. My next step is to change it so it records the configurations in an external file or in the registry. It may even accept updates over the air based on the APRS telemetry standard.

I'm attaching a snapshot of the program interface. I'd be glad to send anyone on the list a copy if they want to give it a try. If anyone is interested in the source code, I can also send that on an individual basis. If anyone is interested in assisting with the development, I probably wouldn't turn you down.

73, Bruce
VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

From: Keith Kaiser
Sent: Tuesday, March 30, 2010 7:44 AM
To: Pete Lilja
Cc: gpsl ; Balloon_Sked@yahoogroups.com
Subject: [GPSL] Re: [Balloon_Sked] Narated HAB (or rocket) Flights

OK, now this is cool. I'm not really into these 3 or 4 minute rocket flights but narrating it in real time is very cool. I'd love to do this with our balloon flights. Use one of the output ports on Xastir to feed the telemetry into the script running the voice synthesizer on my Mac.

On Mar 30, 2010, at 8:21 AM, Pete Lilja wrote:

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What he has done is created a computer program that uses the voice of 'Kate' to narrate his rocket flights in real-time. As I understand it his on-field laptop simply receives the telemetry data from the GPS / transmitter equipped rocket and the voice of 'Kate' narates the flight aloud in real time. You can listen to recordings of some flights and get a better idea here: http://www.vernk.com/PhotosOfAngelfire.htm

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HAB payload.

Just thought I'd share this. Take it for what it's worth.

Pete
KC0GPB

6629. Fwd: Project Blue Horizon Website Updates + Checking Weather to Determine Launch Window for This Week

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-31 00:17:08 UTC
From: Ed Moore
Topic: 6629 Message: 6629

Looks very ambitious and good luck to them. Though, I'm a bit tickled by how corporate they seem for a bunch of master's-students-come-radio-hams. I say that as a masters-student-come-radio-ham.

The flight computer is described as "Our design builds on past success while fostering innovation by utilizing the next generation Atmel XMega microcontroller." - which sounds like the kind of thing written in industry pamphlets for large corporations that no one reads, and their team structure diagram (http://www.projectbluehorizon.com/index.php?a=team) is straight out of a large multinational insurance company (c.f. http://www.prudential.co.uk/prudential-plc/aboutpru/ourpeople/structure/).

Whilst I suspect there might be a little that's not being said on their website (I honestly don't want to stir, but it doesn't take much googling to see that this seems to be a training program for employees of one of the world's biggest multinational aerospace and defense companies, rather than an amateur project), I shall track their balloon with interest and try and contribute whatever telemetry I can from the other side of the pond.

Good luck PBH!

Ed M0TEK
CU Spaceflight

Begin forwarded message:

> From: contact@...
> Date: 30 March 2010 23:53:52 GMT+01:00
> To: undisclosed-recipients:;
> Subject: Project Blue Horizon Website Updates + Checking Weather to Determine Launch Window for This Week
>
> Fellow Hams - We have made tremendous progress and plan to launch our next segment of Project Blue Horizon Thursday evening. We are checking weather now to determine our exact launch window, so please be sure to check our website <http://www.projectbluehorizon.com/> and Twitter <http://www.twitter.com/PBH3/> for the latest information.
>
> We also completed a major revision to our website, so please go there to learn more about our project, the system we designed, and the team that designed it.
>
> Don't forget to register on our website for latest updates and to send us tracking data <http://bit.ly/PBHRegister>.
>
> We look forward to pushing the envelope of Amateur Radio High Altitude Balooning with you very soon!
>

> 73,
> -Tom Triebwasser
> KC2TUA
> PBH Alum '09
>

6630. Re: [GPSL] Re: [Balloon_Sked] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-31 02:59:39 UTC
From: ccccrnr@aim.com
Topic: 6620 Message: 6630

wow great ideas, out there, I remember chasing UTARC-3 without a TNC because the PIC spit out the telementry in voice over the radio from an SD card

Now you could reduce parts by using a SpeakJet chip.
http://www.magnevation.com/pdfs/speakjetusermanual.pdf
just send your incoming GPS position in ASCII serial(converted by any controller) to the SpeakJet and the chip does all the voice and sound generation to the chip speaker (radio mic)

if you want to do it from a ground computer. I've done something similar (not for ballooning) with ReadPlease from IBM a free software that reads text in 4 different voices at any speed.
I took my text stream and using Batch I converted the file extention from .txt to .rs or .rps opened ReadPlease sending it the file which was read automaticly to the speakers in the set voice.

Sincerely,
Carlton
-.- .. ....- -. .... -.-

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Tue, Mar 30, 2010 8:51 am
Subject: [GPSL] Re: [Balloon_Sked] Narated HAB (or rocket) Flights

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The hardware to do this consists of an Arduino, a WaveShield to interface an SD card full of voice snippets, and a GPS. You parse the GPS data, decided what phrases to say, then tell the WaveShield to play them on the radio.

73 de Mark N9XTN

On Tue, Mar 30, 2010 at 08:21, Pete Lilja <plilja@...> wrote:

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Pete
KC0GPB

6631. Re: [GPSL] Re: [Balloon_Sked] Narated HAB (or rocket) Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-31 06:16:58 UTC
From: wb8elk@aol.com
Topic: 6620 Message: 6631

Back in 1992 I launched a balloon that send down the telemetry with my voice generated by the then brand-new ISD chip that ultimately made it into Hallmark cards and just about anything that talked then. You could portion off different memory spots on the chip and address each number that you wanted to send down...I basically just recorded the number 0 through 9, my callsign and "balloon" and could send each one by the addressing them on the chip. I was just going to mention the Speakjet chip that Carlton posted....I just got one but haven't tried it yet....looks like it'll make life easier to implement voice messaging.

I still have an ISD-based voice telemetry system that Robert Rau N8IYD and I built up for the Earthwinds round the world project...it only flew on that massive system once and they didn't stay up long. Their gondola weighed about 22,000 pounds as I recall.

- Bill WB8ELK

-----Original Message-----
From: ccccrnr@...
To: GPSL@yahoogroups.com
Sent: Tue, Mar 30, 2010 9:59 pm
Subject: Re: [GPSL] Re: [Balloon_Sked] Narated HAB (or rocket) Flights

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6632. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-31 06:19:11 UTC
From: wb8elk@aol.com
Topic: 6620 Message: 6632

Hi Michael....I particularly loved your voice message from the GPSL flight that said "Once again I'm so very very lost" when the GPS cut out....great stuff.

- Bill WB8ELK

-----Original Message-----
From: Michael Willett <mw@...>
To: GPSL@yahoogroups.com
Cc: Mark Conner <mconner1@gmail.com>
Sent: Tue, Mar 30, 2010 11:18 am
Subject: [GPSL] ARBONET Voice Beacon Sound Track

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K5NOT

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6633. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-03-31 12:16:36 UTC
From: Michael Willett
Topic: 6620 Message: 6633

That is what late night programming will do to you, - you have "GPS lost lock" as the voice indicator initially, but getting punchy late at night you think about the female voice and start adding things maybe you shouldn't, so you end up removing the comments about being a blonde and leaving the "Once again I am so very lost" part. There was also a mode where it was supposed to say "I will stop and ask for directions" when it regained lock and I think it only said that once on that trip.

I still remember exactly where I was sitting at the group dinner when you told me that the Copernicus GPS required a register setting to allow operation above 60K feet. Staying up until 3AM trying to get that to work resulted in a lot of bad mistakes the next day and a long flight that actually did get lost for a week...

The Inventek is on my new board. That new board with many upgraded sensor and processor features arrives today.

--Michael

On 3/31/2010 1:19 AM, wb8elk@... wrote:
>
> Hi Michael....I particularly loved your voice message from the GPSL
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> Cc: Mark Conner <mconner1@...>
> Sent: Tue, Mar 30, 2010 11:18 am
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>
> The ARBONET voice beacon uses an Grand Studios Emic Text to Speech
> module. These have been discontinued, which is sad, they are very nice
> units, even at $75.00...
>
> Here is an example of the ARBONET voice beacon, it plays in the
> background of this page if your ISP and browser allows it to play:
>
> http://www.arbonet.net/ARBONET%20TRACKING.html
>
> This is off of a receiving radio / PC using scanner recorder at my

> home about 100-120 miles from the flight. My audio is slightly
> over-driven, but it is still quite usable. I don't have the GPSL
> recording handy, however I feel it was quite a bit clearer.
>
> I can send the example MP3 to you direct if you can't listen to it on
> the web page.
>
> --Michael
>
> K5NOT
>
>
>
>
> On 3/30/2010 8:51 AM, Mark Conner wrote:
>> I'm working on a similar thing for a NSTAR flight this year, except
>> it will narrate it from the balloon on 446.30 MHz. It'll read off
>> lat, lon, course, speed, altitude, and ascent/descent rate. This was
>> inspired by the ARBONET flight at GPSL last year, who have something
>> similar.
>>
>> The hardware to do this consists of an Arduino, a WaveShield to
>> interface an SD card full of voice snippets, and a GPS. You parse
>> the GPS data, decided what phrases to say, then tell the WaveShield
>> to play them on the radio.
>>
>> 73 de Mark N9XTN
>>
>>
>> On Tue, Mar 30, 2010 at 08:21, Pete Lilja <plilja@...
>> <mailto:plilja@...>> wrote:
>>
>>
>>
>> As I've mentioned several times before I also have the hobby of
>> flying rockets. One well known rocket flier / builder has
>> created a pretty cool app. for his flights.
>>
>> What he has done is created a computer program that uses the
>> voice of 'Kate' to narrate his rocket flights in real-time. As I
>> understand it his on-field laptop simply receives the telemetry
>> data from the GPS / transmitter equipped rocket and the voice of
>> 'Kate' narates the flight aloud in real time. You can listen to
>> recordings of some flights and get a better idea here:
>> http://www.vernk.com/PhotosOfAngelfire.htm
>> <http://www.vernk.com/PhotosOfAngelfire.htm>
>>
>> I'm not computer savvy enough to do the same but I'd bet there
>> are HABists here that are. Not only is it pretty cool and fun I
>> could see it being helpful while driving to recover a HAB payload.

>>
>> Just thought I'd share this. Take it for what it's worth.
>>
>> Pete
>> KC0GPB
>>
>>
>
>

6634. Re: [GPSL] ARBONET Voice Beacon Sound Track

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 00:57:33 UTC
From: Mark Garrett
Topic: 6620 Message: 6634

Bill:

There is a Star Trek parody that has a line "Boldly going forward-still can't find reverse", has always been a favorite of mine.

Mark, KA9SZX

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Wed, March 31, 2010 1:19:11 AM
Subject: Re: [GPSL] ARBONET Voice Beacon Sound Track

Hi Michael....I particularly loved your voice message from the GPSL flight that said "Once again I'm so very very lost" when the GPS cut out....great stuff.

- Bill WB8ELK

-----Original Message-----
From: Michael Willett <mw@...>
To: GPSL@yahoogroups. com
Cc: Mark Conner <mconner1@gmail. com>
Sent: Tue, Mar 30, 2010 11:18 am
Subject: [GPSL] ARBONET Voice Beacon Sound Track

The ARBONET voice beacon uses an Grand Studios Emic Text to Speech module. These have been discontinued, which is sad, they are very nice units, even at $75.00...

Here is an example of the ARBONET voice beacon, it plays in the background of this page if your ISP and browser allows it to play:

http://www.arbonet. net/ARBONET% 20TRACKING. html

This is off of a receiving radio / PC using scanner recorder at my home about 100-120 miles from the flight. My audio is slightly over-driven, but it is still quite usable. I don't have the GPSL recording handy, however I feel it was quite a bit clearer.

I can send the example MP3 to you direct if you can't listen to it on the web page.

--Michael

K5NOT

On 3/30/2010 8:51 AM, Mark Conner wrote:
>
>>
>I'm working on a similar thing for a NSTAR flight this year, except it will narrate it from the balloon on 446.30 MHz. It'll read off lat, lon, course, speed, altitude, and

ascent/descent rate. This was inspired by the ARBONET flight at GPSL last year, who have something similar.
>
>>The hardware to do this consists of an Arduino, a WaveShield to interface an SD card full of voice snippets, and a GPS. You parse the GPS data, decided what phrases to say, then tell the WaveShield to play them on the radio.
>
>>73 de Mark N9XTN
>
>
>
>On Tue, Mar 30, 2010 at 08:21, Pete Lilja <plilja@...> wrote:
>
>>>
>>
>>
>>>>As I've mentioned several times before I also have the hobby of flying rockets. One well known rocket flier / builder has created a pretty cool app. for his flights.
>>
>>>>What he has done is created a computer program that uses the voice of 'Kate' to narrate his rocket flights in real-time. As I understand it his on-field laptop simply receives the telemetry data from the GPS / transmitter equipped rocket and the voice of 'Kate' narates the flight aloud in real time. You can listen to recordings of some flights and get a better idea here: http://www.vernk. com/PhotosOfAnge lfire.htm
>>
>>>>I'm not computer savvy enough to do the same but I'd bet there are HABists here that are. Not only is it pretty cool and fun I could see it being helpful while driving to recover a HAB payload.
>>
>>>>Just thought I'd share this. Take it for what it's worth.
>>
>>>>Pete
>>>>KC0GPB
>>
>

6635. GPSL Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 17:02:24 UTC
From: Zack Clobes
Topic: 694 Message: 6635

The GPSL plans are starting to come together. Hopefully the website will be updated in the next couple of days, but there is one matter I'd like to bring to your attention. Apparently, someone decided to plan a softball tournament on "our" weekend in Hutch, and consequently, the hotels are filling up very quickly. I had hoped to find an "official" hotel for us all, but I'm afraid that may not be practical under the circumstances.

So, if you plan on attending, and haven't already made arrangements, please do so SOON.

Some hotel information:
Hampton Inn - FULL
Holiday Inn Express (620-669-5200) - About 10 rooms available
Day's Inn (620-665-3700) - About 18 rooms available, but are mostly smoking rooms.
Grand Prairie (620-669-9311) - Fair availability, depending on the exact nights you want to stay.
There are plenty of others, these just happen to be ones that I'm vaguely familiar with.

A quick note about the Grand Prairie: It tends to be a bit more pricey, and I know that some weren't that impressed with the room and the pool-side noise last time. I got to visit some family at the GP a few weeks ago. They were staying in a room on the north end of the hotel, away from the pool. The room seemed nice and clean, and it was well away from the pool noise...

Zack Clobes, W0ZC
Project: Traveler

6636. Re: [GPSL] GPSL Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:10:26 UTC
From: Keith Kaiser
Topic: 694 Message: 6636

Zack,

1) What do you want me to update on the web page?

2) Would you like to show the BLAST! movie again, like last year?

On Apr 1, 2010, at 12:02 PM, Zack Clobes wrote:

> The GPSL plans are starting to come together. Hopefully the website will be updated in the next couple of days, but there is one matter I'd like to bring to your attention. Apparently, someone decided to plan a softball tournament on "our" weekend in Hutch, and consequently, the hotels are filling up very quickly. I had hoped to find an "official" hotel for us all, but I'm afraid that may not be practical under the circumstances.
>
> So, if you plan on attending, and haven't already made arrangements, please do so SOON.
>
> Some hotel information:
> Hampton Inn - FULL
> Holiday Inn Express (620-669-5200) - About 10 rooms available
> Day's Inn (620-665-3700) - About 18 rooms available, but are mostly smoking rooms.
> Grand Prairie (620-669-9311) - Fair availability, depending on the exact nights you want to stay.
> There are plenty of others, these just happen to be ones that I'm vaguely familiar with.
>
>
> A quick note about the Grand Prairie: It tends to be a bit more pricey, and I know that some weren't that impressed with the room and the pool-side noise last time. I got to visit some family at the GP a few weeks ago. They were staying in a room on the north end of the hotel, away from the pool. The room seemed nice and clean, and it was well away from the pool noise...
>
>
> Zack Clobes, W0ZC
> Project: Traveler
>

6637. Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:22:03 UTC
From: Keith Kaiser
Topic: 6637 Message: 6637

How many cubic feet of gas in a 'K' tank?

How many cubic feet of gas does it take to fill at 1500g balloon?

6638. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:42:29 UTC
From: Mark Conner
Topic: 6637 Message: 6638

http://linweld.com/cat/29.pdf

K tank is 219 cu ft.

When we fly a 1500g balloon with our usual 8-9 lb payload, we put almost all of a T tank in it. Sometimes we short it a little if we want under 1000 ft/min, but if we dump the whole thing in we don't have to worry about an underfill.

73 de Mark N9XTN

On Thu, Apr 1, 2010 at 14:22, Keith Kaiser <wa0tjt@...> wrote:

> How many cubic feet of gas in a 'K' tank?
>
> How many cubic feet of gas does it take to fill at 1500g balloon?
>
>

6639. RE: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:51:43 UTC
From: Rick von Glahn
Topic: 6637 Message: 6639

According to the web...

K tank = 219 cu. ft. of helium (this varies a bit from place to place).
Follow this link, click on He pure and the PDF will detail how Linweld
delivers in a K tank.

http://www.linweld.com/puremix.asp

Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)

http://www.kaymont.com/pages/sounding-balloons.cfm

However, we don't usually fly with minimum weight so, more helium is needed.
How much more, depends on your flight system weight.

73 -- Rick, N0KKZ

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Keith Kaiser
> Sent: Thursday, April 01, 2010 1:22 PM
> To: gpsl
> Subject: [GPSL] Gas question for you guys
>
> How many cubic feet of gas in a 'K' tank?
>
> How many cubic feet of gas does it take to fill at 1500g balloon?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

6640. RE: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:52:14 UTC
From: Rick von Glahn
Topic: 6637 Message: 6640

Oops I was too slow

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Thursday, April 01, 2010 1:42 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Gas question for you guys

http://linweld.com/cat/29.pdf

K tank is 219 cu ft.

When we fly a 1500g balloon with our usual 8-9 lb payload, we put almost all of a T tank in it. Sometimes we short it a little if we want under 1000 ft/min, but if we dump the whole thing in we don't have to worry about an underfill.

73 de Mark N9XTN

On Thu, Apr 1, 2010 at 14:22, Keith Kaiser <wa0tjt@...> wrote:

How many cubic feet of gas in a 'K' tank?

How many cubic feet of gas does it take to fill at 1500g balloon?

6641. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 19:54:36 UTC
From: Keith Kaiser
Topic: 6637 Message: 6641

OK, so theoretically one 'K' tank of H2 (Hydrogen) should fill our 1500g balloon.

We are going to use H2 instead of He.

On Apr 1, 2010, at 2:51 PM, Rick von Glahn wrote:

> According to the web...
>
> K tank = 219 cu. ft. of helium (this varies a bit from place to place).
> Follow this link, click on He pure and the PDF will detail how Linweld
> delivers in a K tank.
>
> http://www.linweld.com/puremix.asp
>
> Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)
>
> http://www.kaymont.com/pages/sounding-balloons.cfm
>
> However, we don't usually fly with minimum weight so, more helium is needed.
> How much more, depends on your flight system weight.
>
> 73 -- Rick, N0KKZ
>
> 73 -- Rick, N0KKZ
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> > Keith Kaiser
> > Sent: Thursday, April 01, 2010 1:22 PM
> > To: gpsl
> > Subject: [GPSL] Gas question for you guys
> >
> > How many cubic feet of gas in a 'K' tank?
> >
> > How many cubic feet of gas does it take to fill at 1500g balloon?
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>

6642. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 20:00:18 UTC
From: Mark Conner
Topic: 6637 Message: 6642

A lot will depend on your weight. With H2 and 6 lbs or less, you're probably OK with a K.

The volume quoted by Kaymont for 1500g is probably for a NWS standard radiosonde which is not more than 1 lb I think.

You may want to check the LiftWin program at http://www.eoss.org/dnload/liftw-041.zip to run your own numbers to see if the volume is enough.

73 de Mark N9XTN

On Thu, Apr 1, 2010 at 14:54, Keith Kaiser <wa0tjt@...> wrote:

>
>
> OK, so theoretically one 'K' tank of H2 (Hydrogen) should fill our 1500g
> balloon.
>
> We are going to use H2 instead of He.
>
> On Apr 1, 2010, at 2:51 PM, Rick von Glahn wrote:
>
>
>
>
> According to the web...
>
> K tank = 219 cu. ft. of helium (this varies a bit from place to place).
> Follow this link, click on He pure and the PDF will detail how Linweld
> delivers in a K tank.
>
> http://www.linweld.com/puremix.asp
>
> Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)
>
> http://www.kaymont.com/pages/sounding-balloons.cfm
>
> However, we don't usually fly with minimum weight so, more helium is
> needed.
> How much more, depends on your flight system weight.
>
> 73 -- Rick, N0KKZ
>
> 73 -- Rick, N0KKZ
>
> > -----Original Message-----

> > From: GPSL@yahoogroups.com <GPSL%40yahoogroups.com> [mailto:
> GPSL@yahoogroups.com <GPSL%40yahoogroups.com>] On Behalf Of
> > Keith Kaiser
> > Sent: Thursday, April 01, 2010 1:22 PM
> > To: gpsl
> > Subject: [GPSL] Gas question for you guys
> >
> > How many cubic feet of gas in a 'K' tank?
> >
> > How many cubic feet of gas does it take to fill at 1500g balloon?
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> > ------------------------------------
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> > Yahoo! Groups Links
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6643. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 20:18:01 UTC
From: Keith Kaiser
Topic: 6637 Message: 6643

I can't run that program, I'm missing some parts, specifically VBRUN300.DLL, and people wonder why I hate windows.

On Apr 1, 2010, at 3:00 PM, Mark Conner wrote:

> A lot will depend on your weight. With H2 and 6 lbs or less, you're probably OK with a K.
>
> The volume quoted by Kaymont for 1500g is probably for a NWS standard radiosonde which is not more than 1 lb I think.
>
> You may want to check the LiftWin program at http://www.eoss.org/dnload/liftw-041.zip to run your own numbers to see if the volume is enough.
>
> 73 de Mark N9XTN
>
>
> On Thu, Apr 1, 2010 at 14:54, Keith Kaiser <wa0tjt@...> wrote:
>
>
> OK, so theoretically one 'K' tank of H2 (Hydrogen) should fill our 1500g balloon.
>
> We are going to use H2 instead of He.
>
> On Apr 1, 2010, at 2:51 PM, Rick von Glahn wrote:
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>> According to the web...
>>
>> K tank = 219 cu. ft. of helium (this varies a bit from place to place).
>> Follow this link, click on He pure and the PDF will detail how Linweld
>> delivers in a K tank.
>>
>> http://www.linweld.com/puremix.asp
>>
>> Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)
>>
>> http://www.kaymont.com/pages/sounding-balloons.cfm
>>
>> However, we don't usually fly with minimum weight so, more helium is needed.
>> How much more, depends on your flight system weight.
>>
>> 73 -- Rick, N0KKZ
>>
>> 73 -- Rick, N0KKZ
>>

>> > -----Original Message-----
>> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
>> > Keith Kaiser
>> > Sent: Thursday, April 01, 2010 1:22 PM
>> > To: gpsl
>> > Subject: [GPSL] Gas question for you guys
>> >
>> > How many cubic feet of gas in a 'K' tank?
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>> > How many cubic feet of gas does it take to fill at 1500g balloon?
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>> > Yahoo! Groups Links
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6644. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 23:23:15 UTC
From: Bruce Coates
Topic: 6637 Message: 6644

Hi Keith

You can find the Visual Basic 3 runtime dll in literally thousands of locations on the net including http://www.xmission.com/~psneeley/Shareware/VB300.htm Just toss it in your system or system32 folder and you'll never have to worry about it gain.

I've never had to find some obscure missing module to make a Linux app run, or have I .... Sorry, that was my sarcastic side coming out. My wife says I should behave myself.

73, Bruce - VE5BNC

----- Original Message -----
From: Keith Kaiser
To: GPSL@yahoogroups.com
Sent: Thursday, April 01, 2010 2:18 PM
Subject: Re: [GPSL] Gas question for you guys

I can't run that program, I'm missing some parts, specifically VBRUN300.DLL, and people wonder why I hate windows.

On Apr 1, 2010, at 3:00 PM, Mark Conner wrote:

A lot will depend on your weight. With H2 and 6 lbs or less, you're probably OK with a K.

The volume quoted by Kaymont for 1500g is probably for a NWS standard radiosonde which is not more than 1 lb I think.

You may want to check the LiftWin program at http://www.eoss.org/dnload/liftw-041.zip to run your own numbers to see if the volume is enough.

73 de Mark N9XTN

On Thu, Apr 1, 2010 at 14:54, Keith Kaiser <wa0tjt@...> wrote:

OK, so theoretically one 'K' tank of H2 (Hydrogen) should fill our 1500g balloon.

We are going to use H2 instead of He.

On Apr 1, 2010, at 2:51 PM, Rick von Glahn wrote:

According to the web...

K tank = 219 cu. ft. of helium (this varies a bit from place to place).
Follow this link, click on He pure and the PDF will detail how Linweld
delivers in a K tank.

http://www.linweld.com/puremix.asp

Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)

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However, we don't usually fly with minimum weight so, more helium is needed.
How much more, depends on your flight system weight.

73 -- Rick, N0KKZ

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Keith Kaiser
> Sent: Thursday, April 01, 2010 1:22 PM
> To: gpsl
> Subject: [GPSL] Gas question for you guys
>
> How many cubic feet of gas in a 'K' tank?
>
> How many cubic feet of gas does it take to fill at 1500g balloon?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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6645. Re: [GPSL] Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-01 23:48:58 UTC
From: wb8elk@aol.com
Topic: 6637 Message: 6645

Hi All...just saw the discussion....I emailed Keith that 6 pounds (as Mark just mentioned) was the payload/parachute weight combo I'd recommend for a K bottle using a 1500 gram balloon. You could fly with just a few ounces of positive lift but then your ascent rate will be near 400 ft/min or below and you run the risk of a long duration floater flight....and yes LiftWin is the tool that will show the helium or hydrogen volumes that you'd need. I'm rewriting my old DOS Ballift program which does a similar thing as LiftWin and will shortly have it available on my website as a Windows program soon.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Thu, Apr 1, 2010 3:00 pm
Subject: Re: [GPSL] Gas question for you guys

A lot will depend on your weight. With H2 and 6 lbs or less, you're probably OK with a K.

The volume quoted by Kaymont for 1500g is probably for a NWS standard radiosonde which is not more than 1 lb I think.

You may want to check the LiftWin program at http://www.eoss.org/dnload/liftw-041.zip to run your own numbers to see if the volume is enough.

73 de Mark N9XTN

On Thu, Apr 1, 2010 at 14:54, Keith Kaiser <wa0tjt@...> wrote:

OK, so theoretically one 'K' tank of H2 (Hydrogen) should fill our 1500g balloon.

We are going to use H2 instead of He.

On Apr 1, 2010, at 2:51 PM, Rick von Glahn wrote:

According to the web...

K tank = 219 cu. ft. of helium (this varies a bit from place to place).
Follow this link, click on He pure and the PDF will detail how Linweld
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http://www.linweld.com/puremix.asp

Kaymont Totex 1500 gm balloon fill volume 3.3 cu. Meters (116.5 cu. Ft.)

http://www.kaymont.com/pages/sounding-balloons.cfm

However, we don't usually fly with minimum weight so, more helium is needed.
How much more, depends on your flight system weight.

73 -- Rick, N0KKZ

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Keith Kaiser
> Sent: Thursday, April 01, 2010 1:22 PM
> To: gpsl
> Subject: [GPSL] Gas question for you guys
>
> How many cubic feet of gas in a 'K' tank?
>
> How many cubic feet of gas does it take to fill at 1500g balloon?
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> Yahoo! Groups Links
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6646. Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 03:50:29 UTC
From: Idle-Tyme
Topic: 6646 Message: 6646
Attachments: 1 described; binary payloads are missing from this source WARC

I have been discussing this with Bill The main Man the balloon dude of all balloon dudes. And want to also open this to any of you out there.

What do you do when in your flight train the balloon is many times heavier than the rest of the flight train?

What do you do to keep the balloon schards remenants from dragging the chute over upside down since it would weigh much more than the payload?

Joe WB9SBD
Near Space Sciences
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6647. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 05:08:21 UTC
From: Mike Manes
Topic: 6646 Message: 6647

Hi Joe,

EOSS uses that fast release device that you made a prototype of to
get shed of the shards immediately after burst. Another way is
to fire the cutdown while the balloon is still intact, but sacrifices
hitting your peak altitude.

73 de Mike W5VSI

On 4/1/2010 20:50, Idle-Tyme wrote:
> I have been discussing this with Bill The main Man the balloon dude of
> all balloon dudes. And want to also open this to any of you out there.
>
> What do you do when in your flight train the balloon is many times
> heavier than the rest of the flight train?
>
> What do you do to keep the balloon schards remenants from dragging the
> chute over upside down since it would weigh much more than the payload?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6648. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 12:01:58 UTC
From: BASE
Topic: 6646 Message: 6648

Joe,

Although we've never flown light payload strings (too many experiment on the flight), I wonder about flying with an inverted parachute. I can envision a stack that has the balloon on top, then the payload and at the bottom the inverted parachute.

The ascent would be slowed at lower altitudes (another fascinating Hanks' knee in the climb), but after burst I believe you would exit the chaos with the chute on top and working properly.

Of course, I've been wrong before :)

Howard

--- On Fri, 4/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Flight Train.
To: GPSL@yahoogroups.com
Cc: "Idle-Tyme" <nss@mwt.net>
Date: Friday, April 2, 2010, 1:08 AM

Hi Joe,

EOSS uses that fast release device that you made a prototype of to

get shed of the shards immediately after burst. Another way is

to fire the cutdown while the balloon is still intact, but sacrifices

hitting your peak altitude.

73 de Mike W5VSI

On 4/1/2010 20:50, Idle-Tyme wrote:

> I have been discussing this with Bill The main Man the balloon dude of

> all balloon dudes. And want to also open this to any of you out there.

>

> What do you do when in your flight train the balloon is many times

> heavier than the rest of the flight train?

>

> What do you do to keep the balloon schards remenants from dragging the

> chute over upside down since it would weigh much more than the payload?

>

> Joe WB9SBD

> Near Space Sciences

> --

>

> The Original Rolling Ball Clock

> Idle Tyme

> Idle-Tyme.com

> http://www.idle- tyme.com

--

Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

6649. DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 12:15:14 UTC
From: Joe Lynch
Topic: 6649 Message: 6649

The following is from Luther Richardson, KI4AOJ:

DREAMS: Doing Research at Extreme Altitudes by Motivated Students. DREAMS is a project of NASA Ames and the Georgia Space Grant Consortium. DREAMS' eighth launch took place recently in Mojave Desert, California.

The DREAMS-8 Flight flew to about 90,000 feet and recorded data from our electric field mill and some other sensors.

Images and flight video can be found at http://mojavescience.columbus2space.org/.

5th graders from Rob Palassou's Science Club in San Francisco, CA ran the subsystem checks for launch and released the payload. They also were the ones who recovered!

Luther W. Richardson, Jr.
Columbus NASA Connections
http://connect.columbus2space.org

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This information has been cross-posted on Facebook on the CQ VHF Quarterly Magazine fan page: http://www.facebook.com/#!/pages/CQ-VHF-Quarterly-Magazine/270423971194?ref=ts.

73,

Joe Lynch, N6CL

6650. Interesting Comet Story

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 13:08:49 UTC
From: L. Paul Verhage
Topic: 6650 Message: 6650

http://www.astrobio.net/pressrelease/3451/the-deadly-sting-of-a-comet-tail

--
Onwards and Upwards,
Paul

6651. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 14:51:47 UTC
From: Michael Willett
Topic: 6646 Message: 6651

Bill's the expert here, he has done flights like this as controlled experiments. From a personal learning experience myself, (similar to fumbling around uncontrolled in the dark) make sure the space between your balloon and the inverted parachute is enough that the balloon's free-fall won't drop into the center of the parachute and make one big tangled mess. :) Experience indicates good spacing is needed here. We flew an inverted chute at GPSL and among many mistakes that late night before and on the day of the launch, I had only about 6' between the balloon and the parachute, and you probably want something more like 25' to give the balloon residual a smaller relative target to hit on the initial fall.

You might consider a drogue chute to pull the main on your payload to really reduce the footprint of the inverted chute while the balloon residual passes by on the way down, and to help increase your ascent rate. The main parachute will provide a lot of drag until it arrives in the ineffective reaches of the atmosphere where it will eventually deflate and hang freely. Our chute became ineffective at altitude also due to being in the draft of the balloon itself which has now increased in size a great amount - our chute was only about 6' away from the envelope.

On the way up, the Hank's knee Howard talks about below will be affected considerably, since your inverted chute, if left without constraint, will open on ascent and cause a great deal of initial drag. It provides a more logrhythmic ascent rate initially. Our 90 minute flight went about 3 hours up and went way long down-range being stuck in the higher winds aloft area of the ascent for a longer period of time. However, the chute becomes very ineffective at altitude, so the ascent does start to get back to a normal linear flight ascent sometime shortly before burst. :)

Days like that day at the GPSL really humble you from "We learned something really neat from a really great flight!" to "We really screwed up and we also lost our payload!". But we did get some cool, unexpected data. (And we gained another, possibly useful tool in how to slow the initial ascent rate...)

Doug, (W5BL) and I laughed so hard on the way back from losing the payload that I nearly had to pull over on the road to wipe the tears from my eyes from laughing so hard. Our female voice beacon went off in firmware lala land and would not shut up during the flight and gave us a continuous rambling with no useful data on where the payload was located, also wearing out the system batteries... You can imagine our comments and why we laughed so hard...

--Michael
K5NOT

On 4/2/2010 7:01 AM, BASE wrote:
>
> Joe,
>
> Although we've never flown light payload strings (too many experiment
> on the flight), I wonder about flying with an inverted parachute. I
> can envision a stack that has the balloon on top, then the payload and
> at the bottom the inverted parachute.
>
> The ascent would be slowed at lower altitudes (another fascinating
> Hanks' knee in the climb), but after burst I believe you would exit
> the chaos with the chute on top and working properly.
>
> Of course, I've been wrong before :)
>
> Howard
>
> --- On *Fri, 4/2/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Flight Train.
> To: GPSL@yahoogroups.com
> Cc: "Idle-Tyme" <nss@...>
> Date: Friday, April 2, 2010, 1:08 AM
>
> Hi Joe,
>
> EOSS uses that fast release device that you made a prototype of to
> get shed of the shards immediately after burst. Another way is
> to fire the cutdown while the balloon is still intact, but sacrifices
> hitting your peak altitude.
>
> 73 de Mike W5VSI
>
> On 4/1/2010 20:50, Idle-Tyme wrote:
> > I have been discussing this with Bill The main Man the balloon
> dude of
> > all balloon dudes. And want to also open this to any of you out
> there.
> >
> > What do you do when in your flight train the balloon is many times
> > heavier than the rest of the flight train?
> >
> > What do you do to keep the balloon schards remenants from
> dragging the
> > chute over upside down since it would weigh much more than the
> payload?
> >
> > Joe WB9SBD
> > Near Space Sciences

> > --
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> > The Original Rolling Ball Clock
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> > http://www.idle- tyme.com <http://www.idle-tyme.com>
>
> --
> Mike Manes mrmanes@gmail. com </mc/compose?to=mrmanes%40gmail.com>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

6652. Re: Gas question for you guys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 17:04:58 UTC
From: n1ltv
Topic: 6637 Message: 6652

> You can find the Visual Basic 3 runtime dll in literally thousands > of locations on the net including
> http://www.xmission.com/~psneeley/Shareware/VB300.htm

> Just toss it in your system or system32 folder and you'll never
> have to worry about it gain.

Thanks for pointing out that easy solution to Keith.

I guess I should create a new LIFTWIN website that explicitly
includes VB300 as a small download as well as the instructions,
screenshots, and supplementary notes that were available
at HABLIC for years and would still be there if Geocities/Yahoo
hadn't folded as a free web hosting service about a year ago.

>> I can't run that program, I'm missing some parts, specifically
>> VBRUN300.DLL, and people wonder why I hate windows.

For the record, I'm not aware of any parts with an "s" that
could be missing. It's just that one VB runtime module beside
the exe itself, that's it.

This program runs on most slightly older editions or variants of windows including WIN2000 and XP without needing to add anything.

Hank

6653. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 22:42:53 UTC
From: wb8elk@aol.com
Topic: 6646 Message: 6653

Howard...Arbonet did exactly this configuration last GPSL....it was a very slow ascent....if they have some GPS data up to the point where they reached the 27,000 foot or so limit on the Copernicus module (in Ground mode)....then it would be interesting to plot the ascent to see how it varied with the inverted parachute. I had some of their data plotted last Summer on my computer but lost all that data when my computer was stolen from my house.

- Bill WB8ELK

-----Original Message-----
From: BASE <basedepauw@yahoo.com>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 2, 2010 7:01 am
Subject: Re: [GPSL] Flight Train.

Joe,

Although we've never flown light payload strings (too many experiment on the flight), I wonder about flying with an inverted parachute. I can envision a stack that has the balloon on top, then the payload and at the bottom the inverted parachute.

The ascent would be slowed at lower altitudes (another fascinating Hanks' knee in the climb), but after burst I believe you would exit the chaos with the chute on top and working properly.

Of course, I've been wrong before :)

Howard

--- On Fri, 4/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Flight Train.
To: GPSL@yahoogroups.com
Cc: "Idle-Tyme" <nss@...>
Date: Friday, April 2, 2010, 1:08 AM

Hi Joe,

EOSS uses that fast release device that you made a prototype of to
get shed of the shards immediately after burst. Another way is
to fire the cutdown while the balloon is still intact, but sacrifices
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> chute over upside down since it would weigh much more than the payload?
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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

=

6654. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 22:49:42 UTC
From: wb8elk@aol.com
Topic: 6649 Message: 6654

Hi Joe....THe Mojave desert is an interesting place to fly...I did my first flight there in 1989 from near Victorville, CA. We tracked it with not only a chase plane but a chase helicopter (flown by W6ORG). It landed in a sand dune near Barstow and the helicopter just swooped down to recover it...everyone else had to hike in quite some ways from the nearest road.

Here's a YouTube video of that flight:

http://www.youtube.com/watch?v=ekqSE7H1G1M

- Bill WB8ELK

-----Original Message-----
From: Joe Lynch <n6cl@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 2, 2010 7:15 am
Subject: [GPSL] DREAMS-8 launch and recovery

The following is from Luther Richardson, KI4AOJ:

DREAMS: Doing Research at Extreme Altitudes by Motivated Students. DREAMS is a project of NASA Ames and the Georgia Space Grant Consortium. DREAMS' eighth launch took place recently in Mojave Desert, California.

The DREAMS-8 Flight flew to about 90,000 feet and recorded data from our electric field mill and some other sensors.

Images and flight video can be found at http://mojavescience.columbus2space.org/.

5th graders from Rob Palassou's Science Club in San Francisco, CA ran the subsystem checks for launch and released the payload. They also were the ones who recovered!

Luther W. Richardson, Jr.
Columbus NASA Connections
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This information has been cross-posted on Facebook on the CQ VHF Quarterly Magazine fan page: http://www.facebook.com/#!/pages/CQ-VHF-Quarterly-Magazine/270423971194?ref=ts.

73,

Joe Lynch, N6CL

6655. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 23:00:59 UTC
From: Pete Lilja
Topic: 6649 Message: 6655

How crude. You actually had to use airplanes and helicopters to recover it!

(That was a huge tongue-in-cheek remark in case anyone missed my humor.)

Actually, that is pretty darned cool. That seems a long time ago, I'm sure. Pre-GPS days and, I'd guess, RDF only. A far cry from my GPS / ham radio set-up that directs me right to where the payload lands these days.

Pretty cool, Bill. Thanks for posting.

Pete

On Fri, Apr 2, 2010 at 5:49 PM, <wb8elk@...> wrote:

>
>
> Hi Joe....THe Mojave desert is an interesting place to fly...I did my first
> flight there in 1989 from near Victorville, CA. We tracked it with not only
> a chase plane but a chase helicopter (flown by W6ORG). It landed in a sand
> dune near Barstow and the helicopter just swooped down to recover
> it...everyone else had to hike in quite some ways from the nearest road.
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> Here's a YouTube video of that flight:
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>
> - Bill WB8ELK
>
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>
>
> -----Original Message-----
> From: Joe Lynch <n6cl@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Apr 2, 2010 7:15 am
> Subject: [GPSL] DREAMS-8 launch and recovery
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> subsystem checks for launch and released the payload. They also were the
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> .
>
> 73,
>
> Joe Lynch, N6CL
>
>

6656. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 23:25:06 UTC
From: wb8elk@aol.com
Topic: 6649 Message: 6656

Hi Pete....yes, that was way before GPS receivers so we used Direction Finding to guide the chase plane to the landing area....as it parachuted down we lost the ATV antenna....the chase plane had ATV onboard and as I guided them into the area where I thought it would be coming down, they started to get a stronger and stronger picture on their TV....I was amazed since I had nothing at our ground station....Mike WA6SVT inside the chase plane said, "Hey, I see the same area on the video that we are flying over, it's a perfect snow-free picture..very strong signal....there's the lake, a house, an airplane wing!!!!"...and whoosh, it zipped right past their wingtip. They watched it land in the sand dune as the helicopter swooped in.

- Bill WB8ELK

-----Original Message-----
From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 2, 2010 6:00 pm
Subject: Re: [GPSL] DREAMS-8 launch and recovery

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Here's a YouTube video of that flight:

http://www.youtube.com/watch?v=ekqSE7H1G1M

- Bill WB8ELK

-----Original Message-----
From: Joe Lynch <n6cl@sbcglobal.net>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 2, 2010 7:15 am

Subject: [GPSL] DREAMS-8 launch and recovery

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http://www.youtube.com/watch?v=ekqSE7H1G1M

- Bill WB8ELK

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From: Joe Lynch <n6cl@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 2, 2010 7:15 am
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73,

Joe Lynch, N6CL

6657. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-02 23:39:50 UTC
From: Pete Lilja
Topic: 6649 Message: 6657

That makes for a terrific story with the chase plane seeing themselves fly by. That's kinda one of those mind-benders that probably took a minute or two to orient their minds to seeing themselves flying by.

Pete
KC0GPB

On Fri, Apr 2, 2010 at 6:25 PM, <wb8elk@...> wrote:

>
>
> Hi Pete....yes, that was way before GPS receivers so we used Direction
> Finding to guide the chase plane to the landing area....as it parachuted
> down we lost the ATV antenna....the chase plane had ATV onboard and as I
> guided them into the area where I thought it would be coming down, they
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> - Bill WB8ELK
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>
>
>
>
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> From: Pete Lilja <plilja@cfu.net>
> To: GPSL@yahoogroups.com
> Sent: Fri, Apr 2, 2010 6:00 pm
> Subject: Re: [GPSL] DREAMS-8 launch and recovery
>
>
> How crude. You actually had to use airplanes and helicopters to recover
> it!
>
> (That was a huge tongue-in-cheek remark in case anyone missed my humor.)
>
> Actually, that is pretty darned cool. That seems a long time ago, I'm
> sure. Pre-GPS days and, I'd guess, RDF only. A far cry from my GPS / ham
> radio set-up that directs me right to where the payload lands these days.
>
> Pretty cool, Bill. Thanks for posting.
>

> Pete
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> On Fri, Apr 2, 2010 at 5:49 PM, <wb8elk@...> wrote:
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>> Hi Joe....THe Mojave desert is an interesting place to fly...I did my
>> first flight there in 1989 from near Victorville, CA. We tracked it with not
>> only a chase plane but a chase helicopter (flown by W6ORG). It landed in a
>> sand dune near Barstow and the helicopter just swooped down to recover
>> it...everyone else had to hike in quite some ways from the nearest road.
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>> .
>>
>> 73,
>>
>> Joe Lynch, N6CL
>>
>
>
>

6658. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 01:20:53 UTC
From: Mike Manes
Topic: 6646 Message: 6658

Of course, there's also a pretty fair chance that your payload string
would fall right into the 'chute canopy for a REAL fast ride home.
This has happened to EOSS and even JPL without doing it on purpose.

The good news is that short descent will compensate for the long
ascent.

73 de Mike W5VSI

On 4/2/2010 05:01, BASE wrote:
>
>
> Joe,
>
> Although we've never flown light payload strings (too many experiment on
> the flight), I wonder about flying with an inverted parachute. I can
> envision a stack that has the balloon on top, then the payload and at
> the bottom the inverted parachute.
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> The ascent would be slowed at lower altitudes (another fascinating
> Hanks' knee in the climb), but after burst I believe you would exit the
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> Howard
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> --- On *Fri, 4/2/10, Mike Manes /<mrmanes@...>/* wrote:
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> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Flight Train.
> To: GPSL@yahoogroups.com
> Cc: "Idle-Tyme" <nss@...>
> Date: Friday, April 2, 2010, 1:08 AM
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> Hi Joe,
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> EOSS uses that fast release device that you made a prototype of to
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> > http://www.idle- tyme.com <http://www.idle-tyme.com>
>
> --
> Mike Manes mrmanes@gmail. com </mc/compose?to=mrmanes%40gmail.com>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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--
Mike Manes mrmanes@... Tel: 303-979-4899
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6659. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 02:12:45 UTC
From: Idle-Tyme
Topic: 6649 Message: 6659
Attachments: 1 described; binary payloads are missing from this source WARC

I remember that!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/2/2010 5:49 PM, wb8elk@... wrote:
>
>
> Hi Joe....THe Mojave desert is an interesting place to fly...I did my
> first flight there in 1989 from near Victorville, CA. We tracked it
> with not only a chase plane but a chase helicopter (flown by W6ORG).
> It landed in a sand dune near Barstow and the helicopter just swooped
> down to recover it...everyone else had to hike in quite some ways from
> the nearest road.
> Here's a YouTube video of that flight:
> http://www.youtube.com/watch?v=ekqSE7H1G1M
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: Joe Lynch <n6cl@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Apr 2, 2010 7:15 am
> Subject: [GPSL] DREAMS-8 launch and recovery
>
> The following is from Luther Richardson, KI4AOJ:
> DREAMS: Doing Research at Extreme Altitudes by Motivated Students.
> DREAMS is a project of NASA Ames and the Georgia Space Grant
> Consortium. DREAMS' eighth launch took place recently in Mojave
> Desert, California.
> The DREAMS-8 Flight flew to about 90,000 feet and recorded data from
> our electric field mill and some other sensors.
> Images and flight video can be found at
> http://mojavescience.columbus2space.org/
> <http://mojavescience.columbus2space.org/>.
> 5th graders from Rob Palassou's Science Club in San Francisco, CA ran
> the subsystem checks for launch and released the payload. They also
> were the ones who recovered!
>

> Luther W. Richardson, Jr.
> Columbus NASA Connections
> http://connect.columbus2space.org <http://connect.columbus2space.org/>
>
> Columbus High School Space Program
> http://www.columbus2space.org <http://www.columbus2space.org/>
>
> This information has been cross-posted on Facebook on the CQ VHF
> Quarterly Magazine fan page:
> http://www.facebook.com/#!/pages/CQ-VHF-Quarterly-Magazine/270423971194?ref=ts
> <http://www.facebook.com/#%21/pages/CQ-VHF-Quarterly-Magazine/270423971194?ref=ts>.
> 73,
> Joe Lynch, N6CL
>
>
>
>

6660. Re: [GPSL] DREAMS-8 launch and recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 02:16:45 UTC
From: Idle-Tyme
Topic: 6649 Message: 6660
Attachments: 1 described; binary payloads are missing from this source WARC

Yup i remember all the flights were RDF and triangulation. The ultimate
Fox hunts!

I remember our first GPS unit. the antenna was still even back then
small like 2" square or so. The GPS unit tho, was a unit that had
three PC board layers that were double sided components, and was like 4"
wide by 10" long. And that was still only the GPS, you still had to
dump that into like a Kantronics KPC2 or similar and then dump that into
a radio too!
wow!

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/2/2010 6:00 PM, Pete Lilja wrote:
>
>
> How crude. You actually had to use airplanes and helicopters to
> recover it!
>
> (That was a huge tongue-in-cheek remark in case anyone missed my humor.)
>
> Actually, that is pretty darned cool. That seems a long time ago, I'm
> sure. Pre-GPS days and, I'd guess, RDF only. A far cry from my GPS /
> ham radio set-up that directs me right to where the payload lands
> these days.
>
> Pretty cool, Bill. Thanks for posting.
>
> Pete
>
> On Fri, Apr 2, 2010 at 5:49 PM, <wb8elk@...
> <mailto:wb8elk@...>> wrote:
>
> Hi Joe....THe Mojave desert is an interesting place to fly...I did
> my first flight there in 1989 from near Victorville, CA.
> We tracked it with not only a chase plane but a chase helicopter
> (flown by W6ORG). It landed in a sand dune near Barstow and the
> helicopter just swooped down to recover it...everyone else had to
> hike in quite some ways from the nearest road.

> Here's a YouTube video of that flight:
> http://www.youtube.com/watch?v=ekqSE7H1G1M
> - Bill WB8ELK
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>
> -----Original Message-----
> From: Joe Lynch <n6cl@... <mailto:n6cl@...>>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Fri, Apr 2, 2010 7:15 am
> Subject: [GPSL] DREAMS-8 launch and recovery
>
> The following is from Luther Richardson, KI4AOJ:
> DREAMS: Doing Research at Extreme Altitudes by Motivated Students.
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> Desert, California.
> The DREAMS-8 Flight flew to about 90,000 feet and recorded data
> from our electric field mill and some other sensors.
> Images and flight video can be found at
> http://mojavescience.columbus2space.org/.
> 5th graders from Rob Palassou's Science Club in San Francisco, CA
> ran the subsystem checks for launch and released the payload.
> They also were the ones who recovered!
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> Luther W. Richardson, Jr.
> Columbus NASA Connections
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> http://www.facebook.com/#!/pages/CQ-VHF-Quarterly-Magazine/270423971194?ref=ts
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> 73,
> Joe Lynch, N6CL
>
>
>
>
>

6661. RE: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 02:57:56 UTC
From: Nick Hanks
Topic: 6646 Message: 6661

In 2007 GPSL was held in Grand Island, NE. One of the groups attending was from Maine. I believe the group was EOSRED ☐ Edge of Space Research, Experiments and Developments (http://groups.yahoo.com/group/EOSRED/). They launched in interesting configuration. They had two balloons (about 1000g or 1200g I think) and on the bottom of the payload string they had an inverted parachute. It may have been made of a metallic-coated cloth. After the flight at the ☐How Did It Go☐ session on Sat. afternoon Lee W1LWT explained their configuration. This is what I remember they said. Maybe there were others who heard Lee that can add more detail and/or provide some corrections. Or maybe W1LWT monitors this reflector.

They flew two balloons because the prevailing winds in Maine often blew their balloons out to sea. One balloon would of course burst at a high altitude, leaving the other balloon inflated. The second balloon didn☐t provide enough lift to generate a positive rate of ascent with the shards of the first balloon and the payload string still attached. (It may have been under-inflated.) So the second balloon and the payload string came down (albeit slowly). I believe they had the inverted parachute on a short line (five feet maybe), and it got tangled in the payload string. As I mentioned, the whole thing could land in the water. If it did, instead of sinking, the second balloon kept everything afloat until EOSRED folks got there in a boat. They said they needed the inverted ☐chute to keep the ascent rate down with two balloons providing lift. The parachute wasn☐t used to slow the descent.

73,

Nick

NØLP

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of BASE
Sent: Friday, April 02, 2010 06:02
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Flight Train.

Joe,

Although we've never flown light payload strings (too many experiment on the flight), I wonder about flying with an inverted parachute. I can envision a stack that has the balloon on top, then the payload and at the bottom the inverted parachute.

The ascent would be slowed at lower altitudes (another fascinating Hanks' knee in the climb), but after burst I believe you would exit the chaos with

the chute on top and working properly.

Of course, I've been wrong before :)

Howard

--- On Fri, 4/2/10, Mike Manes <mrmanes@gmail.com> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Flight Train.
To: GPSL@yahoogroups.com
Cc: "Idle-Tyme" <nss@...>
Date: Friday, April 2, 2010, 1:08 AM

Hi Joe,

EOSS uses that fast release device that you made a prototype of to
get shed of the shards immediately after burst. Another way is
to fire the cutdown while the balloon is still intact, but sacrifices
hitting your peak altitude.

73 de Mike W5VSI

On 4/1/2010 20:50, Idle-Tyme wrote:
> I have been discussing this with Bill The main Man the balloon dude of
> all balloon dudes. And want to also open this to any of you out there.
>
> What do you do when in your flight train the balloon is many times
> heavier than the rest of the flight train?
>
> What do you do to keep the balloon schards remenants from dragging the
> chute over upside down since it would weigh much more than the payload?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle- <http://www.idle-tyme.com> tyme.com

--
Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6662. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 03:40:04 UTC
From: Idle-Tyme
Topic: 6646 Message: 6662
Attachments: 1 described; binary payloads are missing from this source WARC

We did the two balloons , but inflated them so they each provided 1/2
the needed lift. and one would eventually pop before the other, and then
there is only 1/2 the needed lift to stay airborne so it comes down slowly.

it make it awesome to find them after landing, as long as the wind is
slow. if it's windy it's gonna get dragged till it gets caught on
sometyhing.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/2/2010 9:57 PM, Nick Hanks wrote:
>
>
> In 2007 GPSL was held in Grand Island, NE. One of the groups
> attending was from Maine. I believe the group was EOSRED -- Edge of
> Space Research, Experiments and Developments
> (http://groups.yahoo.com/group/EOSRED/). They launched in interesting
> configuration. They had two balloons (about 1000g or 1200g I think)
> and on the bottom of the payload string they had an inverted
> parachute. It may have been made of a metallic-coated cloth. After
> the flight at the "How Did It Go" session on Sat. afternoon Lee W1LWT
> explained their configuration. This is what I remember they said.
> Maybe there were others who heard Lee that can add more detail and/or
> provide some corrections. Or maybe W1LWT monitors this reflector.
>
> They flew two balloons because the prevailing winds in Maine often
> blew their balloons out to sea. One balloon would of course burst at
> a high altitude, leaving the other balloon inflated. The second
> balloon didn't provide enough lift to generate a positive rate of
> ascent with the shards of the first balloon and the payload string
> still attached. (It may have been under-inflated.) So the second
> balloon and the payload string came down (albeit slowly). I believe
> they had the inverted parachute on a short line (five feet maybe), and
> it got tangled in the payload string. As I mentioned, the whole thing
> could land in the water. If it did, instead of sinking, the second
> balloon kept everything afloat until EOSRED folks got there in a
> boat. They said they needed the inverted 'chute to keep the ascent
> rate down with two balloons providing lift. The parachute wasn't used
> to slow the descent.

>
> 73,
>
> Nick
>
> N?LP
>
> ---
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *BASE
> *Sent:* Friday, April 02, 2010 06:02
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Flight Train.
>
> Joe,
>
> Although we've never flown light payload strings (too many experiment
> on the flight), I wonder about flying with an inverted parachute. I
> can envision a stack that has the balloon on top, then the payload and
> at the bottom the inverted parachute.
>
> The ascent would be slowed at lower altitudes (another fascinating
> Hanks' knee in the climb), but after burst I believe you would exit
> the chaos with the chute on top and working properly.
>
> Of course, I've been wrong before :)
>
> Howard
>
> --- On *Fri, 4/2/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Flight Train.
> To: GPSL@yahoogroups.com
> Cc: "Idle-Tyme" <nss@...>
> Date: Friday, April 2, 2010, 1:08 AM
>
> Hi Joe,
>
> EOSS uses that fast release device that you made a prototype of to
> get shed of the shards immediately after burst. Another way is
> to fire the cutdown while the balloon is still intact, but sacrifices
> hitting your peak altitude.
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> 73 de Mike W5VSI
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> On 4/1/2010 20:50, Idle-Tyme wrote:
> > I have been discussing this with Bill The main Man the balloon dude of

> > all balloon dudes. And want to also open this to any of you out there.
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> > What do you do when in your flight train the balloon is many times
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> Mike Manes mrmanes@gmail. com </mc/compose?to=mrmanes%40gmail.com>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>

6663. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 05:09:07 UTC
From: Mike Manes
Topic: 6646 Message: 6663

Or until a weak bit on the payload string breaks off, thus unburdening
the balloon so it takes off again. It's happened to us twice! The
good news is that you get an extra launch at no extra cost :-}.
73 de Mike W5VSI

On 4/2/2010 20:40, Idle-Tyme wrote:
> We did the two balloons , but inflated them so they each provided 1/2
> the needed lift. and one would eventually pop before the other, and then
> there is only 1/2 the needed lift to stay airborne so it comes down slowly.
>
> it make it awesome to find them after landing, as long as the wind is
> slow. if it's windy it's gonna get dragged till it gets caught on
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> Joe WB9SBD
> Near Space Sciences
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> The Original Rolling Ball Clock
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> http://www.idle-tyme.com
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> On 4/2/2010 9:57 PM, Nick Hanks wrote:
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>> was from Maine. I believe the group was EOSRED – Edge of Space
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>> (http://groups.yahoo.com/group/EOSRED/). They launched in interesting
>> configuration. They had two balloons (about 1000g or 1200g I think)
>> and on the bottom of the payload string they had an inverted
>> parachute. It may have been made of a metallic-coated cloth. After the
>> flight at the “How Did It Go” session on Sat. afternoon Lee W1LWT
>> explained their configuration. This is what I remember they said.
>> Maybe there were others who heard Lee that can add more detail and/or
>> provide some corrections. Or maybe W1LWT monitors this reflector.
>>
>> They flew two balloons because the prevailing winds in Maine often
>> blew their balloons out to sea. One balloon would of course burst at a
>> high altitude, leaving the other balloon inflated. The second balloon
>> didn’t provide enough lift to generate a positive rate of ascent with
>> the shards of the first balloon and the payload string still attached.
>> (It may have been under-inflated.) So the second balloon and the
>> payload string came down (albeit slowly). I believe they had the
>> inverted parachute on a short line (five feet maybe), and it got
>> tangled in the payload string. As I mentioned, the whole thing could

>> land in the water. If it did, instead of sinking, the second balloon
>> kept everything afloat until EOSRED folks got there in a boat. They
>> said they needed the inverted ‘chute to keep the ascent rate down with
>> two balloons providing lift. The parachute wasn’t used to slow the
>> descent.
>>
>> 73,
>>
>> Nick
>>
>> NØLP
>>
>> ---
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>> Of *BASE
>> *Sent:* Friday, April 02, 2010 06:02
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] Flight Train.
>>
>> Joe,
>>
>> Although we've never flown light payload strings (too many experiment
>> on the flight), I wonder about flying with an inverted parachute. I
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>> at the bottom the inverted parachute.
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>> The ascent would be slowed at lower altitudes (another fascinating
>> Hanks' knee in the climb), but after burst I believe you would exit
>> the chaos with the chute on top and working properly.
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>> Of course, I've been wrong before :)
>>
>> Howard
>>
>> --- On *Fri, 4/2/10, Mike Manes /<mrmanes@...>/* wrote:
>>
>>
>> From: Mike Manes <mrmanes@...>
>> Subject: Re: [GPSL] Flight Train.
>> To: GPSL@yahoogroups.com
>> Cc: "Idle-Tyme" <nss@...>
>> Date: Friday, April 2, 2010, 1:08 AM
>>
>> Hi Joe,
>>
>> EOSS uses that fast release device that you made a prototype of to
>> get shed of the shards immediately after burst. Another way is
>> to fire the cutdown while the balloon is still intact, but sacrifices
>> hitting your peak altitude.

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>> On 4/1/2010 20:50, Idle-Tyme wrote:
>> > I have been discussing this with Bill The main Man the balloon dude of
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A. Einstein

6664. Re: [GPSL] Flight Train.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 05:25:14 UTC
From: wb8elk@aol.com
Topic: 6646 Message: 6664

I participated in a flight with 3 balloons out in California with KC6CCC....two burst leaving one inflated on the way down. We could see the one balloon sticking above the treeline as we approached a popular ATV off-roading site....all of a sudden the balloon disappeared and we shortly saw a fellow in his truck with our payloads in the back next to his ATVs pass us in the opposite direction as he was heading to find a payphone to collect the reward. We flagged him down but still had to pay the reward.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Sent: Sat, Apr 3, 2010 12:09 am
Subject: Re: [GPSL] Flight Train.

Or until a weak bit on the payload string breaks off, thus unburdening
he balloon so it takes off again. It's happened to us twice! The
ood news is that you get an extra launch at no extra cost :-}.
3 de Mike W5VSI
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> Nick
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> NØLP
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *BASE
> *Sent:* Friday, April 02, 2010 06:02
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Flight Train.
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> Joe,
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> The ascent would be slowed at lower altitudes (another fascinating
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>
> Of course, I've been wrong before :)
>
> Howard
>
> --- On *Fri, 4/2/10, Mike Manes /<mrmanes@gmail.com>/* wrote:
>
>

> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Flight Train.
> To: GPSL@yahoogroups.com
> Cc: "Idle-Tyme" <nss@mwt.net>
> Date: Friday, April 2, 2010, 1:08 AM
>
> Hi Joe,
>
> EOSS uses that fast release device that you made a prototype of to
> get shed of the shards immediately after burst. Another way is
> to fire the cutdown while the balloon is still intact, but sacrifices
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Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

6665. Sky and Telescope

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 14:47:49 UTC
From: L. Paul Verhage
Topic: 6665 Message: 6665

There's a near space photo in sky and Telescope this month (May).

Page 97 is the Gallery page, where amateur have their astronomical pictures displayed. Greg Merkel and classmates from the University of Minnesota's Spaceflight with Balloons class launched a mission with a Canon Powershot A570.

Congrats.

Do we know this class?

--
Onwards and Upwards,
Paul

6666. Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 15:21:20 UTC
From: Idle-Tyme
Topic: 6666 Message: 6666
Attachments: 2 described; binary payloads are missing from this source WARC

Wow not sleeping at night is NOT the time to start to work on a new payload!

I was as usual up last night up at 2 AM not sleeping, And decided to start working on a new payload. not a good idea to do when half asleep and in a room that is only lit by the light of the computer monitor.

On the top shelf of the book case is a group of used LI-Ion Battery packs from previous flights. I use them when building new payloads to power then for testing etc. so not to waste any energy from a new pack. Even tho these packs have soo much power they probably could fly two flights anyway. I have drawn well past an AMP of power from them, and done so for over 12 hours and the output voltage would have dropped still only a volt or so max! Out of 15 volts! Anyway these are those Old packs from way in the beginning of this ballooning stuff. Some of you old timers here will remember these guys. Some sort of military pack. inside was 10 "D" sized cells. made in a like 30 volt center tap configuration, They were easily split to make you two 5 cell 15 volt packs. They looked like this,

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http://i40.tinypic.com/zunudk.jpg

Well after grabbing the one on the right, (obviously older) There is ohhh six to eight other sub packs like these up on that top shelf. up there. It's across the room from the workbench here. I sit down and check the voltage, still 15.2 cool,

then suddenly HISSSSSSSSSSSSSS! is coming from the bookcase!

In moving the old pack I somehow must have shorted out one of the other packs!

It's LOUD, and not sure what the gas is that it's spewing out. All I knew is that in literally seconds from the time the hissing started, I now can hardly see, and can not breath at all, any of this gas in your lungs causes an un controllable coughing, which of course sucks even more of this gas into your lungs causing it to be even worse!

I run out of the room and slam the door shut as I leave! Coughing and gasping in the living room, I'm now getting quesasy, well not quesasy,,,,wrong word, queasy is like barfing, no this is more like the state of being at the dentist with happy gas level of consishnous, but without the "Happyness!" I'm like 50% passed out!

I don't know how much time passed by but i'm more alert now, but then it hit me, about stories I remember way back when we first started using these incredible high power packs how if they get shorted be sure they are fully fused, because they have so much power they can literally catch on Fire or even explode!

Thinking wow I gotta get that pack out of here! I run into the bathroom and make a damp towel and try to enter the room.

Wow cant breath it at all, thats for sure. and promptly leave the room because the eyes are burning BAD and I can't see anything at all in here!

Wow, I re group, and try again, a deep breath and closed eyes I re enter the room. and get to the shelf, but now what pack is it? Remember there are like 8 of these things up here! I cant tell. none seem hot, weird! well I wrap a couple in the towel so they don't touch each other and run outside.

All packs are cold! must be another. I go back in and get another two packs. and take them outside. Nothing still all cold! WTF!!!

Well one more trip and I have them all outside now. So at least i don't have to worry about my house burning down!

I now start to examine each pack. and finally find the pack that did it. and it was just one cell!! one of the connection wires shorted out just ONE cell! All this came from just ONE CELL!!!! WOW Only one cell is warm, all the rest are stone cold! can't imagine what it would have been like if all 5 were shorted!

Whats even more amazing is the packs voltage is still 14.8 volts!!!!! WOW!!

Now Ok the fire hazard is gone. but even with the bedroom door being closed the smell is still starting to creep through the house!

This is an old house and has old fashioned storm windows you install in the winter. But unlike most that install on the outside, these install on the inside and in an un convient way. it takes like 10 minutes to install or remove. so opening the windows is not going to be a option.

Luckily this bedroom is at he end of the hallway and right next door is the bathroom. the doors actually touch each other.

I close my master bedroom door, to help keep the smell out, Lindas still sleeping in there he he he.. and I open the bathroom window, and install a fan on high blowing out.

I open a window at the other end of the house so the airflow is from the far end and then out through the bathroom window. (isn't that a Bob Dylan Song?)

And after the hallway has no more strong smell I crack open the stinky gas chamber room, and start to let the smell out. it gets sucked outside, this is working great!

after a hour or so i'm able to have the gas chamber door wide open and keep ventilating.

after a hour it's not too bad anymore, and I finally go to bed, In the process I wake Linda up and she says what the hell is that smell! he he he I had to explain what all has happened for the past few hours! he just shakes her head and says go to sleep.

Well this morning 90% of the smell is gone but it's still in here. in the background. it reminds me now of doing B&W darkroom photography work with the developers, chemicals and stuff like that.

So after over 20 years of doing these flights and using these packs, this is our first accident so to speak. Wow guys. respect these high power cells if any of you have any of them still laying around!

Cough,, cough!!

Joe WB9SBD
Near Space Sciences
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6667. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 20:43:03 UTC
From: HarryM
Topic: 6666 Message: 6667

SigOn ORB-14 I used a 2-cell Lithium Camera battery for the cutdown. One of the cells vented during flight. It was pretty evident at recovery when I opened the payload. The smell didn't go away for about 6 months. I got in touch with Eveready and they told me what the gas is. The following is from my ORB-14 post flight notes.

Tue Oct. 26 1300
I have been in contact with Eveready and they have been very responsive and helpful. The gas that was vented is called DME, Dimethoxyethane, or 1,2-Dimxyethane, or Ethylene Glycol Dimethyl Ether, which smells like Ether. It is a flammable vapor and is non-corrosive to equipment. All Lithium batteries vent this gas, but in such small amounts that it is not normally noticeable except when contained in a small air tight enclosure. Altitude may have been a factor in
the amount of gas vented. I am waiting for a call back on that. I was told there is a company by the name of Gore that makes a permeable plastic membrane that will suppress the odor. I have not found them. I wonder if Tyvek would work?

---

73 Harry KC5TRB

6668. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-03 22:11:39 UTC
From: wb8elk@aol.com
Topic: 6666 Message: 6668
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Joe,

I still have about a half dozen of these packs as well...some are in my house and most are in the garage....I'll be putting them all in the garage now inside some metal military ammo cases (lined with plastic of course). The battery pack on my first live TV camera payload from 21 years ago still powers up with full voltage from it's original pack even after doing a 4 hour flight.

I did something embarrassing at work a few years ago during a big demonstration of our robotic vehicle in front of a lot of military brass. I brought along a spare high power battery pack that had two big metals connections tabs on the top of it in case we needed it for the demo. Inside the shelter we were using for our command center (it was very dimly lit so that the computer and video screens would have good contrast), I saw what I believed to be a pile of concrete blocks....I set the battery pack upside down with the terminals sitting on the "concrete blocks". The entire battery pack immediately started to glow bright red and emitted smoke and fumes with a hissing sound...I tossed it outside as the brass and all the engineers ran out of the shelter.....upon inspection with the lights on, what I had thought was a pile of concrete blocks were in reality large blocks of solid metal ingots that they used to shim up the equipment inside the shelter. Even after pulling 200 to 300 Amps through this pack...it still worked after it cooled down.

- Bill WB8ELK

-----Original Message-----
From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, Apr 3, 2010 10:21 am
Subject: [GPSL] Battery Packs.

Wow not sleeping at night is NOT the time to start to work on a new payload!

I was as usual up last night up at 2 AM not sleeping, And decided to start working on a new payload. not a good idea to do when half asleep and in a room that is only lit by the light of the computer monitor.

On the top shelf of the book case is a group of used LI-Ion Battery packs from previous flights. I use them when building new payloads to power then for testing etc. so not to waste any energy from a new pack. Even tho these packs have soo much power they probably could fly two flights anyway. I have drawn well past an AMP of power from them, and done so for over 12 hours and the output voltage would have dropped still only a volt or so max! Out of 15 volts! Anyway these are those Old packs from way in the beginning of this ballooning stuff. Some of you old timers here will remember these guys. Some sort of military pack. inside was 10 "D" sized cells. made in a like 30 volt center tap configuration, They were easily split to make you two 5 cell 15 volt packs. They looked like this,

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Well after grabbing the one on the right, (obviously older) There is ohhh six to eight other sub packs like these up on that top shelf. up there.
It's across the room from the workbench here. I sit down and check the voltage, still 15.2 cool,

then suddenly HISSSSSSSSSSSSSS! is coming from the bookcase!

In moving the old pack I somehow must have shorted out one of the other packs!

It's LOUD, and not sure what the gas is that it's spewing out. All I knew is that in literally seconds from the time the hissing started, I now can hardly see, and can not breath at all, any of this gas in your lungs causes an un controllable coughing, which of course sucks even more of this gas into your lungs causing it to be even worse!

I run out of the room and slam the door shut as I leave! Coughing and gasping in the living room, I'm now getting quesasy, well not quesasy,,,,wrong word, queasy is like barfing, no this is more like the state of being at the dentist with happy gas level of consishnous, but without the "Happyness!" I'm like 50% passed out!

I don't know how much time passed by but i'm more alert now, but then it hit me, about stories I remember way back when we first started using these incredible high power packs how if they get shorted be sure they are fully fused, because they have so much power they can literally catch on Fire or even explode!

Thinking wow I gotta get that pack out of here! I run into the bathroom and make a damp towel and try to enter the room.

Wow cant breath it at all, thats for sure. and promptly leave the room because the eyes are burning BAD and I can't see anything at all in here!

Wow, I re group, and try again, a deep breath and closed eyes I re enter the room. and get to the shelf, but now what pack is it? Remember there are like 8 of these things up here! I cant tell. none seem hot, weird! well I wrap a couple in the towel so they don't touch each other and run outside.

All packs are cold! must be another. I go back in and get another two packs. and take them outside. Nothing still all cold! WTF!!!

Well one more trip and I have them all outside now. So at least i don't have to worry about my house burning down!

I now start to examine each pack. and finally find the pack that did it. and it was just one cell!! one of the connection wires shorted out just ONE cell! All this came from just ONE CELL!!!! WOW Only one cell is warm, all the rest are stone cold! can't imagine what it would have been like if all 5 were shorted!

Whats even more amazing is the packs voltage is still 14.8 volts!!!!! WOW!!

Now Ok the fire hazard is gone. but even with the bedroom door being closed the smell is still starting to creep through the house!

This is an old house and has old fashioned storm windows you install in the winter. But unlike most that install on the outside, these install on the inside and in an un convient way. it takes like 10 minutes to install or remove. so opening the windows is not going to be a option.

Luckily this bedroom is at he end of the hallway and right next door is the bathroom. the doors actually touch each other.

I close my master bedroom door, to help keep the smell out, Lindas still sleeping in there he he he.. and I open the bathroom window, and install a fan on high blowing out.

I open a window at the other end of the house so the airflow is from the far end and then out through the bathroom window. (isn't that a Bob Dylan Song?)

And after the hallway has no more strong smell I crack open the stinky gas chamber room, and start to let the smell out. it gets sucked outside, this is working great!

after a hour or so i'm able to have the gas chamber door wide open and keep ventilating.

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Well this morning 90% of the smell is gone but it's still in here. in the background. it reminds me now of doing B&W darkroom photography work with the developers, chemicals and stuff like that.

So after over 20 years of doing these flights and using these packs, this is our first accident so to speak. Wow guys. respect these high power cells if any of you have any of them still laying around!

Cough,, cough!!

Joe WB9SBD
Near Space Sciences

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6669. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-04 01:40:29 UTC
From: Michael Willett
Topic: 6666 Message: 6669

One of my first jobs out of college was to work at Ampex Corp in California. One of my first assignments was to figure out how to make a safe video tape recorder battery pack for a portable video tape recorder - the model VPR-20. It turned out at one of the previous designs blew up and took out a video studio room with a fair cost to the company I now worked for.

The design did not take into consideration that NiCd batteries in a fully enclosed metal container will vent hydrogen when the cell goes amuck, and this enclosed area (just like an ammo can) kept the gasses within the container. When the cell went thermal, the hydrogen ignited and the can basically became a grenade. Shrapnel went everywhere. We were lucky this happened when the studio was not inhabited by workers and the pack was on the charger.

So my first job was to find out what happened and fix this previous design. I pretty much figured out what happened after a week of research and testing... I went to GE battery in Gainsville, FL and toured the plant that made the batteries and worked with the engineers for about four days to come up with balanced cell battery packs, all individually fused and with thermal protection to open the circuit if the cell got warm, (warm being not even close to boiling). NiCds get warm when the cells reach full charge. When charging fast (1 C or above) you need to sense this and reduce the charge to 1/10C. So a new charger design revision came along with the battery pack design that charged not by time and voltage alone, but by time, voltage and temperature sensing.

The new enclosure was well ventilated, strong plastic (not metal!) and I added a small fan that would run during charge and discharge to expel the gasses if the safety measures in my design by chance failed. After every abuse we could think of, we could not get the batteries to explode again, and the new pack went into production based on a far more informed, respectful design. I have had a very great respect for all batteries ever since - and fuse at the battery pack itself as well as at the load location to assure the battery and load are both protected properly. You will see this set up in my truck for my mobile radios as well, as batteries have a tremendous amount of power! Even the high impedance Lithium Thionyl Cloride batteries we fly on ARBONET are fused this way. If you short one of these out, believe it or not, they can get so hot you can get a spontaneous fire. So each battery implementation needs two viewpoints at minimum, one looking at the battery itself - fuse at the greatest load it should ever see, and then at the load, fusing at the greatest load it will ever pull. This allows for multiple loads on a protected battery source.

My batteries are all stored in Styrofoam layers with ventilation, leads protected from shorting and in an area of the shop that is ventilated and close to the door. :)

--Michael K5NOT

6670. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-04 03:45:12 UTC
From: Mike Manes
Topic: 6666 Message: 6670

Hi Joe,

Those are LiSO2 primary cells, IIRC, not Li-ion, which are rechargeable.
And yeah, I remember the bad ol' days when I had to grub out a fresh
set of cells from those mil surplus 1-cell packs. I never encountered
a shorting event, but one of the EOSS old-timers did accidentally short
a 5-cell pack on his bench, and dumped a fire extinguisher on 'em.

Not that Li-ion's are any safer - if you short out an 18650 cell, the
results are likely to be similar. But since the Li-ion pack needn't
be opened regularly, one can apply plenty of insulation and mechanical
protection on the pack AND its accompanying protection circuit. The
protection circuit guards against overcurrent, overvoltage and undervoltage,
and anyone who uses Li-ion for payload power without a protection circuit
is ... well, I really can't use the proper term in this forum ... asking
for trouble, shall we say.

BTW, the reason we shifted to Li-ion from the surplus LiSO2 packs was due
to a near-total depletion of the sources a few years ago. The few that
remained for sale were priced at over $100 per pack. So if you have some
intact packs left, you might consider listing 'em on E&^y - after converting
to Li-ion, o'course. And I gotta tell ya, payload prep is FAR simpler now -
just plug the pack into a cell-balancing charger, tweak the beacon message,
test it and ship it!

73 de Mike W5VSI

On 4/3/2010 08:21, Idle-Tyme wrote:
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> power cells if any of you have any of them still laying around!
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> Cough,, cough!!
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> Joe WB9SBD
> Near Space Sciences
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6671. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-04 04:22:28 UTC
From: Mike Manes
Topic: 6666 Message: 6671

Hi Harry,

I use a 3-cell pack of CR123 LiSO2 cells for our cutdowns. But the
cutdown controller activates the burners for just 10 sec, and I can
get 10 shots out a pack before the preflight short-circuit test yields
under 10 amps (my ad hoc test criterion). However, now that we're using
the load-sensing fast release, we've only used the burners once or twice
in order to keep the landing out of some nasty territory - like DIA. The
only load they see that test and a 12V brake lamp used to verify cutdown
functionality preflight.

The CR123's never even get warm to the touch during burns.

73 de Mike W5VSI

On 4/3/2010 13:43, HarryM wrote:
>
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> On ORB-14 I used a 2-cell Lithium Camera battery for the cutdown. One of
> the cells vented during flight. It was pretty evident at recovery when I
> opened the payload. The smell didn't go away for about 6 months. I got
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> is from my ORB-14 post flight notes.
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> Tue Oct. 26 1300
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> and helpful. The gas that was vented is called DME, Dimethoxyethane, or
> 1,2-Dimxyethane, or Ethylene Glycol Dimethyl Ether, which smells like
> Ether. It is a flammable vapor and is non-corrosive to equipment. All
> Lithium batteries vent this gas, but in such small amounts that it is
> not normally noticeable except when contained in a small air tight
> enclosure. Altitude may have been a factor in
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> told there is a company by the name of Gore that makes a permeable
> plastic membrane that will suppress the odor. I have not found them. I
> wonder if Tyvek would work?
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6672. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-04 04:42:41 UTC
From: L. Paul Verhage
Topic: 6666 Message: 6672

I have four packages of batteries left, still in their cardboard box and plastic bag. They are labeled at part number BA-5598/U and contain the 2/3rd size "D" cells. I use rechargables now and won't be using those btteries, if anyone is interested.

I know the smell of those batteries. It has a very dry feeling.

Paul

On Sat, Apr 3, 2010 at 11:22 PM, Mike Manes <mrmanes@...> wrote:

> Hi Harry,
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> cutdown controller activates the burners for just 10 sec, and I can
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> ------------------------------------
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> Yahoo! Groups Links
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>

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Onwards and Upwards,
Paul

6673. Re: [GPSL] Battery Packs.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-04 16:30:18 UTC
From: HarryM
Topic: 6666 Message: 6673

Hi Mike,

The battery I used that vented was the 2CR5. I have not used it since. I went with 2 Eveready alkaline 9v's and use them only once for a 10 sec burn. Haven't had any problems. All batteries/packs in my capsules are made up of the same 9v's and they have performed very well.

73 Harry

> Hi Harry,
>
> I use a 3-cell pack of CR123 LiSO2 cells for our cutdowns...

6674. PBH-10 in the Air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-05 06:39:44 UTC
From: James Coxon
Topic: 6674 Message: 6674

Hey All,
Woke up this morning to find my twitter feed flooded - seems like the PBH team have fixed their payload and launched a ZP - according to the APRS just reached the atlantic heading SE, also can be tracked by HF - see http://www.projectbluehorizon.com/ for more details.

I'll certainly try to listen in...

James
M6JCX

6675. Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-05 14:03:54 UTC
From: L. Paul Verhage
Topic: 6675 Message: 6675

I have a bunch of rechargable Li Ion cell phoe batteries I use. I just realized though that I only have one charger. Once it goes, I'm out of business. Does any one know of a surplus 7.2V cell phone charger out there?

We just got walluped with hail, about 1/2" diameter stuff.

--
Onwards and Upwards,
Paul

6676. Re: [GPSL] Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-05 14:55:41 UTC
From: HarryM
Topic: 6675 Message: 6676

Hi Paul,

I use a charger I bought at a Hobby Shop.
It is an IntelliPeak ICE and it will charge almost any battery.
There are other chargers available. Check towerhobbies.com!

73 Harry KC5TRB

I have a bunch of rechargable Li Ion cell phoe batteries I use. I just realized though that I only have one charger. Once it goes, I'm out of business. Does any one know of a surplus 7.2V cell phone charger out there?

6677. Re: [GPSL] Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 04:36:35 UTC
From: Mike Manes
Topic: 6675 Message: 6677

Hi Paul,

I got the 18650 Li-ion cells used in our payloads and a balancing
charger for 'em online from All Battery (www.allbattery.com).

Be careful "re-purposing" those batteries if they don't incorporate
protection circuits! Which all battery sells cheap as well.

73 de Mike W5VSI

On 4/5/2010 08:03, L. Paul Verhage wrote:
>
>
> I have a bunch of rechargable Li Ion cell phoe batteries I use. I just
> realized though that I only have one charger. Once it goes, I'm out of
> business. Does any one know of a surplus 7.2V cell phone charger out there?
> We just got walluped with hail, about 1/2" diameter stuff.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6678. Re: [GPSL] Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 14:06:24 UTC
From: Idle-Tyme
Topic: 6675 Message: 6678
Attachments: 1 described; binary payloads are missing from this source WARC

What are the mah ratings on these cells and voltage etc?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/5/2010 11:36 PM, Mike Manes wrote:
> Hi Paul,
>
> I got the 18650 Li-ion cells used in our payloads and a balancing
> charger for 'em online from All Battery (www.allbattery.com).
>
> Be careful "re-purposing" those batteries if they don't incorporate
> protection circuits! Which all battery sells cheap as well.
>
> 73 de Mike W5VSI
>
> On 4/5/2010 08:03, L. Paul Verhage wrote:
>
>>
>> I have a bunch of rechargable Li Ion cell phoe batteries I use. I just
>> realized though that I only have one charger. Once it goes, I'm out of
>> business. Does any one know of a surplus 7.2V cell phone charger out there?
>> We just got walluped with hail, about 1/2" diameter stuff.
>>
>> --
>> Onwards and Upwards,
>> Paul
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>

6679. 18650 battery holders

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 14:27:44 UTC
From: Mark Conner
Topic: 6679 Message: 6679

The recent discussion on batteries prompted me to take a peek at eBay again
for 18650 Li-ion cells and battery holders. I found a couple of new sources
that might be of interest:

18650 battery holder (1S1P):
http://dkc3.digikey.com/PDF/US2010/P2473.pdf ($2.56 ea)

18650 battery holders with protection circuitry:
http://www.batteryspace.com/Li-Ion-18650-cell-series-Battery-Holders-with-PCB-installed.as
px
($10-20)

eBay has several sellers of Li-ion cells (some indicating protection
circuits built into the cell) for around $2-3/cell. Don't know particulars
on the brands, some are probably "off".

73 de Mark N9XTN

6680. Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 18:37:37 UTC
From: Bruce Coates
Topic: 6680 Message: 6680

Hi

I'm flying a UV filter on the still camera for our next flight, primarily to prevent the camera filling with dirt when it lands. This leaves me with a lens ring that's just beggin' to have something else screwed onto it. This led me to think "Hmmm, I wonder how a polarizing filter would work up there?". Anyone ever use one? I wonder what the correct orientation would be? Our first light is planned for May 8 so time's runnin' out.

Thanks

Bruce - VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

6681. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 18:42:46 UTC
From: L. Paul Verhage
Topic: 6680 Message: 6681

The sky will be darker 90 degrees from the sun, if the filter is aligned correctly. The sky in near space won't be any different, but the earth could be. No matter how you align the filter, it will work well in one quadrant and not well in the other.

Can you send two cameras?

Paul

On Tue, Apr 6, 2010 at 1:37 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi
>
> I'm flying a UV filter on the still camera for our next flight, primarily
> to prevent the camera filling with dirt when it lands. This leaves me with
> a lens ring that's just beggin' to have something else screwed onto it.
> This led me to think "Hmmm, I wonder how a polarizing filter would work up
> there?". Anyone ever use one? I wonder what the correct orientation would
> be? Our first light is planned for May 8 so time's runnin' out.
>
> Thanks
>
> Bruce - VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>
>
>
>

--
Onwards and Upwards,
Paul

6682. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 18:49:51 UTC
From: Bruce Coates
Topic: 6680 Message: 6682

Hi Paul

Ok, that makes sense. My hope was that it might reduce some of the atmospheric reflections and improve the clarity of the ground below.

Right now we're limited to one camera. If it works, I may look at adding another. Were you thinking of two with different orientations on the filter or one with a filter and one without?

Thanks

Bruce

----- Original Message -----
From: L. Paul Verhage
To: GPSL@yahoogroups.com
Sent: Tuesday, April 06, 2010 12:42 PM
Subject: Re: [GPSL] Polarizing filter ion your still camera.

The sky will be darker 90 degrees from the sun, if the filter is aligned correctly. The sky in near space won't be any different, but the earth could be. No matter how you align the filter, it will work well in one quadrant and not well in the other.

Can you send two cameras?

Paul

On Tue, Apr 6, 2010 at 1:37 PM, Bruce Coates <bruce.coates@...> wrote:

Hi

I'm flying a UV filter on the still camera for our next flight, primarily to prevent the camera filling with dirt when it lands. This leaves me with a lens ring that's just beggin' to have something else screwed onto it. This led me to think "Hmmm, I wonder how a polarizing filter would work up there?". Anyone ever use one? I wonder what the correct orientation would be? Our first light is planned for May 8 so time's runnin' out.

Thanks

Bruce - VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

--
Onwards and Upwards,
Paul

6683. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 18:55:18 UTC
From: James Hannon
Topic: 6680 Message: 6683

I wear presciption polarized sun glasses outdoors. They really do help reduce the glare off things like water. I would suggest looking thur the filter while viewing something outdoors and rotating the filter to get the best contrast. Then mount it on the camera with the same orientation. Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Bruce Coates" <bruce.coates@...>
Sent 4/6/2010 1:49:51 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Polarizing filter ion your still camera.Hi PaulOk, that makes sense. My hope was that it might reduce some of the atmospheric reflections and improve the clarity of the ground below.Right now we're limited to one camera. If it works, I may look at adding another. Were you thinking of two with different orientations on the filter or one with a filter and one without?Thanks
Bruce----- Original Message ----- From:L. Paul VerhageTo:GPSL@yahoogroups.comSent: Tuesday, April 06, 2010 12:42 PMSubject: Re: [GPSL] Polarizing filter ion your still camera.The sky will be darker 90 degrees from the sun, if the filter is aligned correctly. The sky in near space won't be any different, but the earth could be. No matter how you align the filter, it will work well in one quadrant and not well in the other. Can you send two cameras?PaulOn Tue, Apr 6, 2010 at 1:37 PM, Bruce Coates <bruce.coates@...> wrote:HiI'm flying a UV filter on the still camera for our next flight, primarily to prevent the camera filling with dirt when it lands. This leaves me with a lens ring that's just beggin' to have something else screwed onto it. This led me to think "Hmmm, I wonder how a polarizing filter would work up there?". Anyone ever use one? I wonder what the correct orientation would be? Our first light is planned for May 8 so time's runnin' out.ThanksBruce - VE5BNCSABRE - http://ve5aa.dyndns.org/balloon
--
Onwards and Upwards,
Paul

6684. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 19:02:23 UTC
From: Idle-Tyme
Topic: 6680 Message: 6684
Attachments: 1 described; binary payloads are missing from this source WARC

I'd be more concerned with condensation than dirt.

we have flown at least 30 flights with cameras, and not once has dirt
been a problem.

But condensation IS a major problem, where the flights we used windows,
50% of the images were fogged over. where as without the windows, the
only fogging we have had was after pop and the cold lens hit warm moist
air, but that stays fogged only for 5 minutes or so.

but with the windows, we never use them anymore.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/6/2010 1:37 PM, Bruce Coates wrote:
>
>
> Hi
> I'm flying a UV filter on the still camera for our next flight,
> primarily to prevent the camera filling with dirt when it lands. This
> leaves me with a lens ring that's just beggin' to have something else
> screwed onto it. This led me to think "Hmmm, I wonder how a
> polarizing filter would work up there?". Anyone ever use one? I
> wonder what the correct orientation would be? Our first light is
> planned for May 8 so time's runnin' out.
> Thanks
> Bruce - VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>
>
>

6685. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 19:04:17 UTC
From: Idle-Tyme
Topic: 6680 Message: 6685
Attachments: 1 described; binary payloads are missing from this source WARC

If you want to penetrate the atmosphere you need a IR pass filter and
block most of everything else. that cuts through the blue haze pretty well.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/6/2010 1:49 PM, Bruce Coates wrote:
>
>
> Hi Paul
> Ok, that makes sense. My hope was that it might reduce some of the
> atmospheric reflections and improve the clarity of the ground below.
> Right now we're limited to one camera. If it works, I may look at
> adding another. Were you thinking of two with different orientations
> on the filter or one with a filter and one without?
> Thanks
>
> Bruce
>
> ----- Original Message -----
> *From:* L. Paul Verhage <mailto:nearsys@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, April 06, 2010 12:42 PM
> *Subject:* Re: [GPSL] Polarizing filter ion your still camera.
>
> The sky will be darker 90 degrees from the sun, if the filter is
> aligned correctly. The sky in near space won't be any different,
> but the earth could be. No matter how you align the filter, it
> will work well in one quadrant and not well in the other.
> Can you send two cameras?
> Paul
>
> On Tue, Apr 6, 2010 at 1:37 PM, Bruce Coates
> <bruce.coates@... <mailto:bruce.coates@...>> wrote:
>
>
>
>
> Hi
> I'm flying a UV filter on the still camera for our next
> flight, primarily to prevent the camera filling with dirt when

> it lands. This leaves me with a lens ring that's just beggin'
> to have something else screwed onto it. This led me to think
> "Hmmm, I wonder how a polarizing filter would work up
> there?". Anyone ever use one? I wonder what the correct
> orientation would be? Our first light is planned for May 8 so
> time's runnin' out.
> Thanks
> Bruce - VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
> <http://ve5aa.dyndns.org/balloon>
>
>
>
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> --
> Onwards and Upwards,
> Paul
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>

6686. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-06 19:15:01 UTC
From: L. Paul Verhage
Topic: 6680 Message: 6686

I was thinking about two cameras with filters aligned 90 degrees apart.
That way one of them is bound to get a good picture. The effect should be
greatest in the morning (as opposed to noon) when the sun is at a low angle.

Paul

On Tue, Apr 6, 2010 at 1:49 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Paul
>
> Ok, that makes sense. My hope was that it might reduce some of the
> atmospheric reflections and improve the clarity of the ground below.
>
> Right now we're limited to one camera. If it works, I may look at adding
> another. Were you thinking of two with different orientations on the filter
> or one with a filter and one without?
>
> Thanks
>
> Bruce
>
>
> ----- Original Message -----
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Tuesday, April 06, 2010 12:42 PM
> *Subject:* Re: [GPSL] Polarizing filter ion your still camera.
>
>
>
> The sky will be darker 90 degrees from the sun, if the filter is aligned
> correctly. The sky in near space won't be any different, but the earth
> could be. No matter how you align the filter, it will work well in one
> quadrant and not well in the other.
>
> Can you send two cameras?
>
> Paul
>
> On Tue, Apr 6, 2010 at 1:37 PM, Bruce Coates <bruce.coates@...>wrote:
>
>>
>>
>> Hi

>>
>> I'm flying a UV filter on the still camera for our next flight, primarily
>> to prevent the camera filling with dirt when it lands. This leaves me with
>> a lens ring that's just beggin' to have something else screwed onto it.
>> This led me to think "Hmmm, I wonder how a polarizing filter would work up
>> there?". Anyone ever use one? I wonder what the correct orientation would
>> be? Our first light is planned for May 8 so time's runnin' out.
>>
>> Thanks
>>
>> Bruce - VE5BNC
>> SABRE - http://ve5aa.dyndns.org/balloon
>>
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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

6687. Re: [GPSL] Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-07 01:45:04 UTC
From: Bruce Coates
Topic: 6680 Message: 6687
Attachments: 1 described; binary payloads are missing from this source WARC

SigHi Joe

Ya, I was wondering about condensation too. I'll have to take a long look at things before I decide what to do.

Thanks

Bruce
----- Original Message -----
From: Idle-Tyme
To: GPSL@yahoogroups.com
Cc: Bruce Coates
Sent: Tuesday, April 06, 2010 1:02 PM
Subject: Re: [GPSL] Polarizing filter ion your still camera.

I'd be more concerned with condensation than dirt.

we have flown at least 30 flights with cameras, and not once has dirt been a problem.

But condensation IS a major problem, where the flights we used windows, 50% of the images were fogged over. where as without the windows, the only fogging we have had was after pop and the cold lens hit warm moist air, but that stays fogged only for 5 minutes or so.

but with the windows, we never use them anymore.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/6/2010 1:37 PM, Bruce Coates wrote:
Hi

I'm flying a UV filter on the still camera for our next flight, primarily to prevent the camera filling with dirt when it lands. This leaves me with a lens ring that's just beggin' to have something else screwed onto it. This led me to think "Hmmm, I wonder how a polarizing filter would work up there?". Anyone ever use one? I wonder what the correct orientation would be? Our first light is planned for May 8 so time's runnin' out.

Thanks

Bruce - VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

6688. Re: Polarizing filter ion your still camera.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-07 15:10:59 UTC
From: Dave
Topic: 6680 Message: 6688

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> SigHi Joe
>
> Ya, I was wondering about condensation too. I'll have to take a long look at things before I decide what to do.

You might be able to do a dry Nitrogen (or Helium?) flush before attaching the filter. That may help. Maybe.

Also, note that a lot of modern digital cameras have infrared blocking filters built in (to avoid some weird colour shifts when photographing objects which have a lot of infrared light being produced/reflected). Thus, you may want to take a look at removing those before attaching an infrared only (e.g., visible blocking) filter.

> Thanks
> Bruce

Dave

6689. Transportation of Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 17:14:07 UTC
From: Keith Kaiser
Topic: 6689 Message: 6689

I have one of those carriers that slides into a trailer hitch, kind of a shelf if you will. It is large enough to carry two K tanks of Hydrogen at the same time, lying down. If I secure them very well is this a safe enough method to transport these tanks?

6690. Re: [GPSL] Transportation of Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 17:35:10 UTC
From: Idle-Tyme
Topic: 6689 Message: 6690
Attachments: 1 described; binary payloads are missing from this source WARC

Me say yes,

But claim no responsibility as to the statements below

we have been using H2 for over 20 years, and the tanks have been
transported in everything from the back end of pick up trucks with
NOTHING holding them, to in the trunks of cars, the back ends of ford
escort station wagon, the back seat of a chevy corsica,and lately the
back seat of a dodge neon.

geeech the stuff is NOT a bomb!

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/8/2010 12:14 PM, Keith Kaiser wrote:
> I have one of those carriers that slides into a trailer hitch, kind of a shelf if you
will. It is large enough to carry two K tanks of Hydrogen at the same time, lying down. If
I secure them very well is this a safe enough method to transport these tanks?
>
> ------------------------------------
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> Yahoo! Groups Links
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6691. Re: [GPSL] Transportation of Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 18:15:08 UTC
From: BASE
Topic: 6689 Message: 6691

Keith,
The transportation issue is not so much the type of gas as it is the compressed gas cylinder. The danger comes from having the valve broken off of the end of the cylinder. The regulations prefer upright orientation, and want at least at 30 degrees above the horizontal. I have transported cylinders horizontally, but never outside the vehicle. My concern with the rear hitch shelf being behind the vehicle would be in a rear end collision that could launch the tanks horizontally. Always keep the protective cap secured.
Here's a story from Oklahoma State about a cracked valve:
http://ehs.okstate.edu/MODULES/cylinder/Theone_story.htm

and the Mythbusters video: http://www.youtube.com/watch?v=ejEJGNLTo84&feature=related
I agree with Joe that hydrogen is not the issue.
Howard
--- On Thu, 4/8/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@...>
Subject: [GPSL] Transportation of Hydrogen
To: "gpsl" <GPSL@yahoogroups.com>
Date: Thursday, April 8, 2010, 1:14 PM

I have one of those carriers that slides into a trailer hitch, kind of a shelf if you will. It is large enough to carry two K tanks of Hydrogen at the same time, lying down. If I secure them very well is this a safe enough method to transport these tanks?

6692. Re: [GPSL] Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 21:51:17 UTC
From: Mike Manes
Topic: 6675 Message: 6692

Pretty much standard for 18650 Li-ion cells: 2600 mAH and 3.7V nominal during discharge (4.2V max @ full charge, no load; 2.5 V min permissible discharge). I strap 2 in parallel to boost mAH rating w/ no problem. 18650's are commonly used in laptop battery packs, and are the most widely used size.
73 de Mike W5VSI

On 4/6/2010 08:06, Idle-Tyme wrote:
> What are the mah ratings on these cells and voltage etc?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
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> On 4/5/2010 11:36 PM, Mike Manes wrote:
>> Hi Paul,
>>
>> I got the 18650 Li-ion cells used in our payloads and a balancing
>> charger for 'em online from All Battery (www.allbattery.com).
>>
>> Be careful "re-purposing" those batteries if they don't incorporate
>> protection circuits! Which all battery sells cheap as well.
>>
>> 73 de Mike W5VSI
>>
>> On 4/5/2010 08:03, L. Paul Verhage wrote:
>>
>>>
>>> I have a bunch of rechargable Li Ion cell phoe batteries I use. I just
>>> realized though that I only have one charger. Once it goes, I'm out of
>>> business. Does any one know of a surplus 7.2V cell phone charger out there?
>>> We just got walluped with hail, about 1/2" diameter stuff.
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>>
>>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6693. Re: [GPSL] Battery charger

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 21:02:51 UTC
From: Rodney Sparks
Topic: 6675 Message: 6693

Another great place to get both prismatic LiPo and cylindrical Li-Ion battery packs, inexpensive smart CC-CV chargers, protection PCB's, and everything else you could need is http://www.batteryspace.com . I've purchased packs from them before (for a work-related project), and I'm going to use one of their packs very soon for a client of mine.

-Rodney Sparks
http://www.cs-eng.us

On Thu, Apr 8, 2010 at 2:51 PM, Mike Manes <mrmanes@...> wrote:
> Pretty much standard for 18650 Li-ion cells: 2600 mAH and 3.7V nominal
> during discharge (4.2V max @ full charge, no load; 2.5 V min permissible
> discharge). I strap 2 in parallel to boost mAH rating w/ no problem.
> 18650's are commonly used in laptop battery packs, and are the most widely
> used size.
> 73 de Mike W5VSI
>
> On 4/6/2010 08:06, Idle-Tyme wrote:
>> What are the mah ratings on these cells and voltage etc?
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>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 4/5/2010 11:36 PM, Mike Manes wrote:
>>> Hi Paul,
>>>
>>> I got the 18650 Li-ion cells used in our payloads and a balancing
>>> charger for 'em online from All Battery (www.allbattery.com).
>>>
>>> Be careful "re-purposing" those batteries if they don't incorporate
>>> protection circuits! Which all battery sells cheap as well.
>>>
>>> 73 de Mike W5VSI
>>>
>>> On 4/5/2010 08:03, L. Paul Verhage wrote:
>>>
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>>>> I have a bunch of rechargable Li Ion cell phoe batteries I use. I just
>>>> realized though that I only have one charger. Once it goes, I'm out of
>>>> business. Does any one know of a surplus 7.2V cell phone charger out there?
>>>> We just got walluped with hail, about 1/2" diameter stuff.

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>>>> Onwards and Upwards,
>>>> Paul
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> Mike Manes   mrmanes@...   Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
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6694. Re: [GPSL] Transportation of Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 21:24:57 UTC
From: wb8elk@aol.com
Topic: 6689 Message: 6694

When I lived in Berkeley back in the 80's....a friend of mine took me down to the shipyards in Oakland one night and showed me what he did for fun....he grabbed nitrogen cylinders that still had some pressure in them, rolled them down to the edge of the water and laid them flat in the water with valve end sitting on the beach....he removed the protective cap and then hit the valve with a sledge hammer...<whoooooosh>...the cyinder would zip across San Francisco Bay just like a torpedo and probably went a mile or more out to sea.

Once in the chemistry lab, we had a cylinder fall over that was connected to a gas chromatograph and it's valve got knocked off during the fall when it hit a lab bench...it wasn't strapped to anything....it went through two walls before coming to rest.

- Bill

-----Original Message-----
From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Thu, Apr 8, 2010 1:15 pm
Subject: Re: [GPSL] Transportation of Hydrogen

Keith,

The transportation issue is not so much the type of gas as it is the compressed gas cylinder. The danger comes from having the valve broken off of the end of the cylinder.

The regulations prefer upright orientation, and want at least at 30 degrees above the horizontal. I have transported cylinders horizontally, but never outside the vehicle. My concern with the rear hitch shelf being behind the vehicle would be in a rear end collision that could launch the tanks horizontally. Always keep the protective cap secured.

Here's a story from Oklahoma State about a cracked valve:

http://ehs.okstate.edu/MODULES/cylinder/Theone_story.htm

and the Mythbusters video:
http://www.youtube.com/watch?v=ejEJGNLTo84&feature=related

I agree with Joe that hydrogen is not the issue.

Howard
--- On Thu, 4/8/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@gmail.com>
Subject: [GPSL] Transportation of Hydrogen
To: "gpsl" <GPSL@yahoogroups.com>
Date: Thursday, April 8, 2010, 1:14 PM

I have one of those carriers that slides into a trailer hitch, kind of a shelf if you will. It is large enough to carry two K tanks of Hydrogen at the same time, lying down. If I

secure them very well is this a safe enough method to transport these tanks?

6695. Re: [GPSL] Transportation of Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 22:15:19 UTC
From: Michael Willett
Topic: 6689 Message: 6695

When I signed up for metal shop in High School, we toured the shop area. The teacher pointed out a big patch in the corrugated metal roof above the welding stations. Somehow the one of the cylinders was knocked over during horse play, the valve busted off and it flew like a rocket through the roof and landed in the field next to the armory / National Guard station about 1/4 mile away. 30 something years later, I have never dropped a bottle, and I am still very careful when moving my gas welding tanks around...

Also, never transport the hydrogen, oxygen or other flammable bottles in your car trunk. If you must do so, at least leave the trunk open a bit. The problem is leakage. If by chance the valve did not seat properly and the flammable gas leaks out, builds up in that enclosed compartment, a single spark, static or otherwise can really ruin your day. Bottles should be transported according to the regulations, and with flammable gasses, assure that the gasses can escape safely away. Do a search on welding [bottle,tank,cylinder] explosions and you will see where somebody's day was ruined.

--Michael
K5NOT

On 4/8/2010 4:24 PM, wb8elk@... wrote:
>
> When I lived in Berkeley back in the 80's....a friend of mine took me
> down to the shipyards in Oakland one night and showed me what he did
> for fun....he grabbed nitrogen cylinders that still had some pressure
> in them, rolled them down to the edge of the water and laid them flat
> in the water with valve end sitting on the beach....he removed the
> protective cap and then hit the valve with a sledge
> hammer...<whooooosh>...the cyinder would zip across San Francisco Bay
> just like a torpedo and probably went a mile or more out to sea.
> Once in the chemistry lab, we had a cylinder fall over that was
> connected to a gas chromatograph and it's valve got knocked off during
> the fall when it hit a lab bench...it wasn't strapped to
> anything....it went through two walls before coming to rest.
> - Bill
>
>
>
> -----Original Message-----
> From: BASE <basedepauw@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Apr 8, 2010 1:15 pm
> Subject: Re: [GPSL] Transportation of Hydrogen
>

> Keith,
>
> The transportation issue is not so much the type of gas as it is the
> compressed gas cylinder. The danger comes from having the valve
> broken off of the end of the cylinder.
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> The regulations prefer upright orientation, and want at least at 30
> degrees above the horizontal. I have transported cylinders
> horizontally, but never outside the vehicle. My concern with the rear
> hitch shelf being behind the vehicle would be in a rear end collision
> that could launch the tanks horizontally. Always keep the protective
> cap secured.
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> Here's a story from Oklahoma State about a cracked valve:
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> http://ehs.okstate.edu/MODULES/cylinder/Theone_story.htm
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> and the Mythbusters video:
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>
> I agree with Joe that hydrogen is not the issue.
>
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> --- On *Thu, 4/8/10, Keith Kaiser /<wa0tjt@...>/* wrote:
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> From: Keith Kaiser <wa0tjt@...>
> Subject: [GPSL] Transportation of Hydrogen
> To: "gpsl" <GPSL@yahoogroups.com>
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> I have one of those carriers that slides into a trailer hitch,
> kind of a shelf if you will. It is large enough to carry two K
> tanks of Hydrogen at the same time, lying down. If I secure them
> very well is this a safe enough method to transport these tanks?
>
>
>

6696. Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 23:07:43 UTC
From: Idle-Tyme
Topic: 6696 Message: 6696
Attachments: 1 described; binary payloads are missing from this source WARC

Like the ones you can get anyplace. the ones that can direct replace
the regilar alakline AA's.

Where is the best price for them,,,

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6697. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 00:14:02 UTC
From: Mike Manes
Topic: 6696 Message: 6697

The 18650's are bigger than AA's - they're 18mm diameter and 65mm
long (that's where "18650" comes from). And since they run over 2x
the voltage of an alkaline, that's a good thing.

Check www.all-battery.com for some good prices on cells and protection
circuits. All the EOSS payloads have run on them for over 2 years.

This'll take you right there:
http://www.all-battery.com/li-polifepcm.aspx

73 de Mike

On 4/8/2010 17:07, Idle-Tyme wrote:
> Like the ones you can get anyplace. the ones that can direct replace
> the regilar alakline AA's.
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> Where is the best price for them,,,
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> Joe
> --
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> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6698. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 23:19:46 UTC
From: Rodney Sparks
Topic: 6696 Message: 6698
Attachments: 1 described; binary payloads are missing from this source WARC

Walgreens has 'em at a pretty good price:
http://tinyurl.com/ya5drm9

So, I've always read that you want to use these disposable lithium batteries in low-temperature environments, rather than rechargeables. Energy density is pretty high, they're good to -60C, and they're extremely reliable. Do you guys ever have problems running cobalt-based lithium-ion rechargeables? I know they're not very tolerant of low temps at all, but if they're insulated, I'm sure things could be just fine.

-Rodney

On Thu, Apr 8, 2010 at 4:07 PM, Idle-Tyme <nss@...> wrote:

> Like the ones you can get anyplace. the ones that can direct replace the
> regilar alakline AA's.
>
> Where is the best price for them,,,
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6699. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-08 23:20:59 UTC
From: Idle-Tyme
Topic: 6696 Message: 6699
Attachments: 1 described; binary payloads are missing from this source WARC

wow Mike

crazy minds think alike!

I have in my hands 4 of those exact same cells! the ones with the short wire tabs on each end. Black on one end and red on the other.

Now if I was to connect them all in series, is my initial thought to power a Micro track 300 and GPS unit.

What kinds of configurations have you guys made with these cells, what kinds of Ah capacities? etc.

What did you make to charge them with?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/8/2010 7:14 PM, Mike Manes wrote:
> The 18650's are bigger than AA's - they're 18mm diameter and 65mm
> long (that's where "18650" comes from). And since they run over 2x
> the voltage of an alkaline, that's a good thing.
>
> Check www.all-battery.com for some good prices on cells and protection
> circuits. All the EOSS payloads have run on them for over 2 years.
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> This'll take you right there:
> http://www.all-battery.com/li-polifepcm.aspx
>
> 73 de Mike
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> On 4/8/2010 17:07, Idle-Tyme wrote:
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>

6700. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 00:46:09 UTC
From: Mike Manes
Topic: 6696 Message: 6700

Walgreens sells Li-Fe primary cells that run about 1.5 V and come in
the AA format. They're great for balloon payloads, but kinda pricey.

Li-ion rechargeable cells run over 2x the cell voltage of alkalines and
Li-Fe and won't fit in AA holders - a good thing! But Li-ion does get
puny below -20C, unlike LiSO2 primary cells, like CR123's and the stock
surplus cells we used to get cheap, which are good to -40C. But I've yet
to hear of any battery chemistry that's good to -60C.

73 de Mike W5VSI
CTO EOSS

On 4/8/2010 17:19, Rodney Sparks wrote:
>
>
> Walgreens has 'em at a pretty good price:
> http://tinyurl.com/ya5drm9
>
> So, I've always read that you want to use these disposable lithium
> batteries in low-temperature environments, rather than rechargeables.
> Energy density is pretty high, they're good to -60C, and they're
> extremely reliable. Do you guys ever have problems running cobalt-based
> lithium-ion rechargeables? I know they're not very tolerant of low
> temps at all, but if they're insulated, I'm sure things could be just fine.
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> -Rodney
>
> On Thu, Apr 8, 2010 at 4:07 PM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
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> Where is the best price for them,,,
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6701. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 00:55:10 UTC
From: Mike Manes
Topic: 6696 Message: 6701

Do you mean Li-ion 18650's? If so, then a 4S config will get you 14.8V nominal - a tad high for any GPS I've worked with. I do use 4S with a switching buck regulator for the PC Electronics KPA-5 70 cm ATV xmtr in our video payload, however.

Each payload uses a different configuration. The AE0SS DF/cutdown beacon uses a 2P of 18650's for the Alinco DJ-C1 radio, and I stack a CR123 on top of that to feed a 5V LDO linear regulator for the PICAXE-14 uP and DTMF decoder. The 2P config yields 5200 mAH - enough to run the beacon for 2 days in the event of a rough recovery site.

I use a 1 to 4 cell Li-ion/Li-Po balancing charger from All Battery and charge the 18650s at 600 mA per cell (1200 mA for a 2P configuration).

73 de Mike W5VSI

On 4/8/2010 17:20, Idle-Tyme wrote:
> wow Mike
>
> crazy minds think alike!
>
> I have in my hands 4 of those exact same cells! the ones with the short
> wire tabs on each end. Black on one end and red on the other.
>
> Now if I was to connect them all in series, is my initial thought to
> power a Micro track 300 and GPS unit.
>
> What kinds of configurations have you guys made with these cells, what
> kinds of Ah capacities? etc.
>
> What did you make to charge them with?
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>> Checkwww.all-battery.com for some good prices on cells and protection
>> circuits. All the EOSS payloads have run on them for over 2 years.

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>> This'll take you right there:
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--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6702. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 00:03:31 UTC
From: Mark Conner
Topic: 6696 Message: 6702

You can get Li-ion rechargeable cells in an AA form factor. Not sure
they're the most efficient by volume or weight, but you can use standard AA
battery holders. Just don't accidentally pop them into consumer products.

I did find that Digi-Key now carries 18650 cell holders, which is a
relatively new product for them.

73 de Mark N9XTN

On Thu, Apr 8, 2010 at 19:46, Mike Manes <mrmanes@...> wrote:

> Walgreens sells Li-Fe primary cells that run about 1.5 V and come in
> the AA format. They're great for balloon payloads, but kinda pricey.
>
> Li-ion rechargeable cells run over 2x the cell voltage of alkalines and
> Li-Fe and won't fit in AA holders - a good thing! But Li-ion does get
> puny below -20C, unlike LiSO2 primary cells, like CR123's and the stock
> surplus cells we used to get cheap, which are good to -40C. But I've yet
> to hear of any battery chemistry that's good to -60C.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 4/8/2010 17:19, Rodney Sparks wrote:
> >
> >
> > Walgreens has 'em at a pretty good price:
> > http://tinyurl.com/ya5drm9
> >
> > So, I've always read that you want to use these disposable lithium
> > batteries in low-temperature environments, rather than rechargeables.
> > Energy density is pretty high, they're good to -60C, and they're
> > extremely reliable. Do you guys ever have problems running cobalt-based
> > lithium-ion rechargeables? I know they're not very tolerant of low
> > temps at all, but if they're insulated, I'm sure things could be just
> fine.
> >
> > -Rodney
> >
> > On Thu, Apr 8, 2010 at 4:07 PM, Idle-Tyme <nss@...
> > <mailto:nss@...>> wrote:
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> > Like the ones you can get anyplace. the ones that can direct
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> Yahoo! Groups Links
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6703. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 01:14:30 UTC
From: Mike Manes
Topic: 6696 Message: 6703

Where'd you find those?

On 4/8/2010 18:03, Mark Conner wrote:
>
>
> You can get Li-ion rechargeable cells in an AA form factor. Not sure
> they're the most efficient by volume or weight, but you can use standard
> AA battery holders. Just don't accidentally pop them into consumer
> products.
>
> I did find that Digi-Key now carries 18650 cell holders, which is a
> relatively new product for them.
>
> 73 de Mark N9XTN
>
> On Thu, Apr 8, 2010 at 19:46, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
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> Walgreens sells Li-Fe primary cells that run about 1.5 V and come in
> the AA format. They're great for balloon payloads, but kinda pricey.
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> Li-ion rechargeable cells run over 2x the cell voltage of alkalines and
> Li-Fe and won't fit in AA holders - a good thing! But Li-ion does get
> puny below -20C, unlike LiSO2 primary cells, like CR123's and the stock
> surplus cells we used to get cheap, which are good to -40C. But
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> to hear of any battery chemistry that's good to -60C.
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> 73 de Mike W5VSI
> CTO EOSS
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> > -Rodney
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> Yahoo! Groups Links
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> <mailto:GPSL-fullfeatured@yahoogroups.com>
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A. Einstein

6704. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 00:21:14 UTC
From: Mark Conner
Topic: 6696 Message: 6704

AA Li-ions:

http://www.batteryspace.com/li-ion14500cylindricalrechargeablecell37v750mahaasize277wh-ullisted.aspx

Not true button-tops, though, so may not work in all battery holders.

18650 holder:
http://search.digikey.com/scripts/DkSearch/dksus.dll?Cat=393250&k=18650

- Mark

On Thu, Apr 8, 2010 at 20:14, Mike Manes <mrmanes@...> wrote:

> Where'd you find those?
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> On 4/8/2010 18:03, Mark Conner wrote:
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6705. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 01:56:39 UTC
From: Mike Manes
Topic: 6696 Message: 6705

OK - so that's the 14500 (14mm D x 50 mm L) cell. But it's only
750 mAH - better'n most NiMH that size, and 3x the voltage, however.
Thanks for the links.

73 de Mike W5VSI

On 4/8/2010 18:21, Mark Conner wrote:
> AA Li-ions:
>
> http://www.batteryspace.com/li-ion14500cylindricalrechargeablecell37v750mahaasize277wh-u
llisted.aspx
>
> Not true button-tops, though, so may not work in all battery holders.
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> 18650 holder:
> http://search.digikey.com/scripts/DkSearch/dksus.dll?Cat=393250&k=18650
> <http://search.digikey.com/scripts/DkSearch/dksus.dll?Cat=393250&k=18650>
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> - Mark
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> On Thu, Apr 8, 2010 at 20:14, Mike Manes <mrmanes@...
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> 73 de Mark N9XTN
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> Li-ion does get
> puny below -20C, unlike LiSO2 primary cells, like CR123's
> and the stock
> surplus cells we used to get cheap, which are good to -40C. But
> I've yet
> to hear of any battery chemistry that's good to -60C.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 4/8/2010 17:19, Rodney Sparks wrote:
> >
> >
> > Walgreens has 'em at a pretty good price:
> > http://tinyurl.com/ya5drm9
> >
> > So, I've always read that you want to use these disposable
> lithium
> > batteries in low-temperature environments, rather than
> rechargeables.
> > Energy density is pretty high, they're good to -60C, and
> they're
> > extremely reliable. Do you guys ever have problems running
> cobalt-based
> > lithium-ion rechargeables? I know they're not very tolerant
> of low
> > temps at all, but if they're insulated, I'm sure things could be
> just fine.
> >
> > -Rodney
> >
> > On Thu, Apr 8, 2010 at 4:07 PM, Idle-Tyme <nss@...
> <mailto:nss@...>
> <mailto:nss@... <mailto:nss@...>>
> > <mailto:nss@... <mailto:nss@...> <mailto:nss@...
> <mailto:nss@...>>>> wrote:
> >
> > Like the ones you can get anyplace. the ones that can direct
> > replace the regilar alakline AA's.
> >

> > Where is the best price for them,,,
> >
> > Joe
> > --
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
>
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-digest@yahoogroups.com>>
> GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
> <mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>>
>
>
> <mailto:GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com>>
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> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
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> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6706. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 01:12:10 UTC
From: Idle-Tyme
Topic: 6696 Message: 6706

On 4/8/2010 7:55 PM, Mike Manes wrote:
> Do you mean Li-ion 18650's? If so, then a 4S config will get you 14.8V
> nominal - a tad high for any GPS I've worked with.
That's not a problem, I use the micro trac 300, it powers the GPS itself.
> I do use 4S with
> a switching buck regulator for the PC Electronics KPA-5 70 cm ATV xmtr
> in our video payload, however.
Just Curious as to Reason? for the Regulator?
>
> I use a 1 to 4 cell Li-ion/Li-Po balancing charger from All Battery and
> charge the 18650s at 600 mA per cell (1200 mA for a 2P configuration).
Wow pretty high current.

Being on the cheap Poverty side here, 4 in series as you say is like
14.8 perfect for a flight voltage.

Charging, hmmm, what ya think,, I have a bunch of Yaesu NC-60B
chargers. it's a HT charger,output measures 15.1 volts. under no load,
but it's label says output is 15 volts at 200 milliamps. It's quite
heavy and large for it's claim of power, so i'm wondering if it has a
regulator in it too?

Cuz like i said under no load I'm measureing 15.1 volts. yet it's
labeled output is 15 volts at 200 milliamps,, I wonder how well this
may charge that pack if left in a series situation. hmmmmm?

Joe WB9SBD
>
> 73 de Mike W5VSI
>
> On 4/8/2010 17:20, Idle-Tyme wrote:
>> wow Mike
>>
>> crazy minds think alike!
>>
>> I have in my hands 4 of those exact same cells! the ones with the short
>> wire tabs on each end. Black on one end and red on the other.
>>
>> Now if I was to connect them all in series, is my initial thought to
>> power a Micro track 300 and GPS unit.
>>
>> What kinds of configurations have you guys made with these cells, what
>> kinds of Ah capacities? etc.
>>
>> What did you make to charge them with?
>>

>> Joe
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 4/8/2010 7:14 PM, Mike Manes wrote:
>>> The 18650's are bigger than AA's - they're 18mm diameter and 65mm
>>> long (that's where "18650" comes from). And since they run over 2x
>>> the voltage of an alkaline, that's a good thing.
>>>
>>> Checkwww.all-battery.com for some good prices on cells and protection
>>> circuits. All the EOSS payloads have run on them for over 2 years.
>>>
>>> This'll take you right there:
>>> http://www.all-battery.com/li-polifepcm.aspx
>>>
>>> 73 de Mike
>>>
>>> On 4/8/2010 17:07, Idle-Tyme wrote:
>>>
>>>> Like the ones you can get anyplace. the ones that can direct replace
>>>> the regilar alakline AA's.
>>>>
>>>> Where is the best price for them,,,
>>>>
>>>> Joe
>>>> --
>>>>
>>>> The Original Rolling Ball Clock
>>>> Idle Tyme
>>>> Idle-Tyme.com
>>>> http://www.idle-tyme.com
>>>>
>>>
>

6707. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 04:37:17 UTC
From: Mike Manes
Topic: 6696 Message: 6707

Hi Joe,

Well, at full charge, Li-ions deliver 4.2V, so that 4S pack
delivers 16.8V - which could pop some 16V electrolytics, amongst
other stuff. The switcher clamps the Vcc to the xmtr to +12.5V.

Tenergy sez it's OK to charge at up to the 1 hr rate, or 2.6A per
cell, but that does make for some heat, so I ease back and use more
like a 4 hr rate, since I'm not in a hurry.

The recommended charge profile for Li-ion is constant current until
the cell voltage hits 4.2 V, and then hold 4.2 V constant until the
current drops under the 100 hr rate, or 26 mA per cell. One could
set up a lab DC supply with adjustable current limit to do that.
If you do charge faster, the cell temperature should be monitored
to keep it under 50C. My charger doesn't monitor temperature, however.

Mischarging Li-ions can be expensive and dangerous, so it's important
to get a charger that does the job right. It's a proper investment,
IMHO.

On 4/8/2010 19:12, Idle-Tyme wrote:
> On 4/8/2010 7:55 PM, Mike Manes wrote:
>> Do you mean Li-ion 18650's? If so, then a 4S config will get you 14.8V
>> nominal - a tad high for any GPS I've worked with.
> That's not a problem, I use the micro trac 300, it powers the GPS itself.
>> I do use 4S with
>> a switching buck regulator for the PC Electronics KPA-5 70 cm ATV xmtr
>> in our video payload, however.
> Just Curious as to Reason? for the Regulator?
>>
>> I use a 1 to 4 cell Li-ion/Li-Po balancing charger from All Battery and
>> charge the 18650s at 600 mA per cell (1200 mA for a 2P configuration).
> Wow pretty high current.
>
> Being on the cheap Poverty side here, 4 in series as you say is like
> 14.8 perfect for a flight voltage.
>
> Charging, hmmm, what ya think,, I have a bunch of Yaesu NC-60B chargers.
> it's a HT charger,output measures 15.1 volts. under no load, but it's
> label says output is 15 volts at 200 milliamps. It's quite heavy and
> large for it's claim of power, so i'm wondering if it has a regulator in
> it too?
>
> Cuz like i said under no load I'm measureing 15.1 volts. yet it's
> labeled output is 15 volts at 200 milliamps,, I wonder how well this may

> charge that pack if left in a series situation. hmmmmm?
>
> Joe WB9SBD
>>
>> 73 de Mike W5VSI
>>
>> On 4/8/2010 17:20, Idle-Tyme wrote:
>>> wow Mike
>>>
>>> crazy minds think alike!
>>>
>>> I have in my hands 4 of those exact same cells! the ones with the short
>>> wire tabs on each end. Black on one end and red on the other.
>>>
>>> Now if I was to connect them all in series, is my initial thought to
>>> power a Micro track 300 and GPS unit.
>>>
>>> What kinds of configurations have you guys made with these cells, what
>>> kinds of Ah capacities? etc.
>>>
>>> What did you make to charge them with?
>>>
>>> Joe
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 4/8/2010 7:14 PM, Mike Manes wrote:
>>>> The 18650's are bigger than AA's - they're 18mm diameter and 65mm
>>>> long (that's where "18650" comes from). And since they run over 2x
>>>> the voltage of an alkaline, that's a good thing.
>>>>
>>>> Checkwww.all-battery.com for some good prices on cells and protection
>>>> circuits. All the EOSS payloads have run on them for over 2 years.
>>>>
>>>> This'll take you right there:
>>>> http://www.all-battery.com/li-polifepcm.aspx
>>>>
>>>> 73 de Mike
>>>>
>>>> On 4/8/2010 17:07, Idle-Tyme wrote:
>>>>
>>>>> Like the ones you can get anyplace. the ones that can direct replace
>>>>> the regilar alakline AA's.
>>>>>
>>>>> Where is the best price for them,,,
>>>>>
>>>>> Joe

>>>>> --
>>>>>
>>>>> The Original Rolling Ball Clock
>>>>> Idle Tyme
>>>>> Idle-Tyme.com
>>>>> http://www.idle-tyme.com
>>>>>
>>>>
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6708. Re: Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 12:03:33 UTC
From: jjdemeyer
Topic: 6696 Message: 6708

In Ohio, I can get Lithium AA and AAA at WalMart or Walgreens for a good price.

Joe
www.surfingsatellites.org

--- In GPSL@yahoogroups.com, Idle-Tyme <nss@...> wrote:
>
> Like the ones you can get anyplace. the ones that can direct replace
> the regilar alakline AA's.
>
> Where is the best price for them,,,
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6709. Re: [GPSL] Lithium AA cells?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-09 18:24:46 UTC
From: wb8elk@aol.com
Topic: 6696 Message: 6709
Attachments: 1 described; binary payloads are missing from this source WARC

Joe...The Eveready L91 lithium batteries are usually available at the following: RadioShack, Walmart, Lowes, Batteries Plus and Walgreens.

Best pricing for an 8 pack:

Walgreens - sometimes as low as $16 a pack but usually $18 or so.
Lowes - usually around $18 to $19
Walmart - usually around $19 but hard to find since the meth labs use these and Walmart is their purchase point of choice.
Radio Shack - usually around $21
Batteries Plus - about $22

Some stores (particularly Walmart) will only sell your two 8-packs at a time to keep the meth labs at bay....they use the lithium strips inside as a catalyst.

- Bill WB8ELK

-----Original Message-----
From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, Apr 8, 2010 6:07 pm
Subject: [GPSL] Lithium AA cells?

Like the ones you can get anyplace. the ones that can direct replace the regilar alakline AA's.

Where is the best price for them,,,

Joe

--

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6710. Streaming video from this Saturday morning UAH balloonsat flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 01:18:19 UTC
From: wb8elk@aol.com
Topic: 6710 Message: 6710

Upwards of 5 balloons possible from Huntsville, AL....look for APRS callsigns starting with KG4WSV, WB8ELK and UAH on 144.39 (as well as 144.34 and 144.36

Streaming video of the launches are possible at the following website:

http://www.batc.tv

Click on "Members Streams"

Then click on "WB8ELK" and hit View Stream

6711. Live Stream for EOSS-150 on 4/10

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 02:34:22 UTC
From: Rick von Glahn
Topic: 6711 Message: 6711

EOSS-150 will be launching at 7am MDT (13:00 UTC). We've got some guys working up a live broadcast capability. The stream is available at:

eoss.tv

or you could go into the eoss website to the page via this url:

www.eoss.org/live/index.htm

The first is a bit easier to remember.

Current flight announcement data is at:

http://www.eoss.org/flight

and the prediction is at:

http://www.eoss.org/flight/prediction.htm

If you are sort of near Denver (like within 400 miles) I run predictions for many locations outside of the immediate flight area. Look at:

http://www.eoss.org/flight/distant_observers.htm

And see if your general area is covered. Not much info available but, the time the balloon rises above your local horizon is listed along with the azimuth of the bearing to the balloon as well as distance and the altitude of the balloon at that time. Also listed, max elevation for your site and the set time of the balloon.

It's our 150th flight WOW, it has been a really fun 20 year run at EOSS!!!

73 -- Rick, N0KKZ

6712. Re: [GPSL] Live Stream for EOSS-150 on 4/10

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 03:30:27 UTC
From: Alan Sieg WB5RMG
Topic: 6711 Message: 6712

> EOSS-150 will be launching at 7am MDT (13:00 UTC).
> It's our 150th flight WOW, it has been a really fun 20 year run at EOSS!!!
>
> 73 -- Rick, N0KKZ

Congratulations Rick & all @EOSS . . . 20 years, eh ? 150 launches !

I remember how I hated to leave Denver just before that first launch,
after spending so much time with the group getting it ready.
Tell everyone I said Howdy ! Most of em probably say "Um, who ??"
(surely some of the original group is still there)

Funny how, 20 years later - I've run into Billy.Brown again and get to
participate in his balloonacy. I've setup a temporary IGate tonite
as they have so many launching tomorrow, some will be on 144.36 ...

73 for now - and happy EOSS'ing /;^)
--
Alan Sieg, WB5RMG since 1976
http://twitter.com/wb5rmg
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6713. Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 08:24:24 UTC
From: wb8elk@aol.com
Topic: 6713 Message: 6713

Just visited Walgreen's....they have a sale (until 4/24 I think) on the L91 Eveready AA Lithium cells I use on most flights.

$2 off the 8-pack (price after discount $18)

But here's the real deal:

$2 off the 4-pack (price after discount $8)...so 8 batteries bought as two 4-packs equals $16, which is usually the rock bottom price you'll find on these.

For comparison...the 4-pack at Rite Aid is $10.99.

- Bill WB8ELK

You won't find any at the Madison AL Walgreens though....I bought them all.

6714. Re: [GPSL] Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 13:11:17 UTC
From: Idle-Tyme
Topic: 6713 Message: 6714
Attachments: 1 described; binary payloads are missing from this source WARC

Anyone remember what the mah rating of these are?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/10/2010 3:24 AM, wb8elk@... wrote:
>
>
> Just visited Walgreen's....they have a sale (until 4/24 I think) on
> the L91 Eveready AA Lithium cells I use on most flights.
> $2 off the 8-pack (price after discount $18)
> But here's the real deal:
> $2 off the 4-pack (price after discount $8)...so 8 batteries bought as
> two 4-packs equals $16, which is usually the rock bottom price you'll
> find on these.
> For comparison...the 4-pack at Rite Aid is $10.99.
> - Bill WB8ELK
> You won't find any at the Madison AL Walgreens though....I bought them
> all.
>
>
>
>
>

6715. Re: [GPSL] Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 15:17:10 UTC
From: HarryM
Topic: 6713 Message: 6715

Here's the specs from Eveready...

http://data.energizer.com/PDFs/l91.pdf

> Anyone remember what the mah rating of these are?

6716. RE: [GPSL] Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 16:00:59 UTC
From: Rick von Glahn
Topic: 6713 Message: 6716

I frankly don't know how good a price this place has...

http://www.batteryspace.com/search.aspx?find=&log=false&category=992

But they murder the price of Li 123 cells I use in some high powered flashlights. Price is dependent on quantity purchased but even the worst deal was better than anything on Amazon last time I checked.

Worth a peek.

They carry an off brand for 1/2 price of energizers (more or less) they spec at a slightly shorter runtime but they are slightly lower voltage and mAh (1.5V 2900mAh vs Energizer's 1.72V 3000mAh). Might be a good test candidate if the voltage isn't a concern.

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> HarryM
> Sent: Saturday, April 10, 2010 9:17 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Lithium AA batteries on sale
>
> Here's the specs from Eveready...
>
> http://data.energizer.com/PDFs/l91.pdf
>
>
>
> > Anyone remember what the mah rating of these are?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

6717. GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 16:26:13 UTC
From: Idle-Tyme
Topic: 6717 Message: 6717
Attachments: 1 described; binary payloads are missing from this source WARC

If a GPS was to not work at a high altitude,,, at what altitude do they usually stop working at?

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6718. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 18:32:20 UTC
From: wb8elk@aol.com
Topic: 6717 Message: 6718
Attachments: 1 described; binary payloads are missing from this source WARC

Joe...usually they would fail at 60,000 feet for the many manufacturers who interpret the DoD incorrectly. The Copernicus will fail at 27,000 feet unless set to AIR mode....some cheap units fail even lower due to not allocating enough altitude digits....so they fail at 10000 meters....I've seen this on one brand a few years ago.

- Bill

-----Original Message-----
From: Idle-Tyme <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, Apr 10, 2010 11:26 am
Subject: [GPSL] GPS

If a GPS was to not work at a high altitude,,, at what altitude do they usually stop working at?

Joe

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6719. EOSS-150 recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-10 22:00:11 UTC
From: Rick von Glahn
Topic: 6719 Message: 6719

EOSS-150 was recovered shortly after landing. The very preliminary recap is posted to:

http://www.eoss.org/ansrecap/ar_160/recap150.htm

but, no photos, no recap maps etc. Once data starts arriving I'll be adding to the page.

Can't wait to get my commemorative pin :-)

73 -- Rick, N0KKZ

6720. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 01:10:30 UTC
From: ccccrnr@aim.com
Topic: 6717 Message: 6720
Attachments: 1 described; binary payloads are missing from this source WARC

Is there a list of GPS with make and model of what altitude they stop reporting 3D position and how they handle that event and reseting?

Carlton

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Sat, Apr 10, 2010 1:32 pm
Subject: Re: [GPSL] GPS

Joe...usually they would fail at 60,000 feet for the many manufacturers who interpret the DoD incorrectly. The Copernicus will fail at 27,000 feet unless set to AIR mode....some cheap units fail even lower due to not allocating enough altitude digits....so they fail at 10000 meters....I've seen this on one brand a few years ago.

- Bill

-----Original Message-----
From: Idle-Tyme <nss@mwt.net>
To: GPSL@yahoogroups.com
Sent: Sat, Apr 10, 2010 11:26 am
Subject: [GPSL] GPS

If a GPS was to not work at a high altitude,,, at what altitude do they usually stop working at?

Joe

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6721. Re: [GPSL] Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 03:16:46 UTC
From: Mike Manes
Topic: 6713 Message: 6721

Wow. $2 per cell. That's getting down in the range where we used to
get the surplus 4 Ah D-cells.
Thanks for the tip, Bill.
73 de Mike W5VSI

On 4/10/2010 02:24, wb8elk@... wrote:
>
>
> Just visited Walgreen's....they have a sale (until 4/24 I think) on the
> L91 Eveready AA Lithium cells I use on most flights.
> $2 off the 8-pack (price after discount $18)
> But here's the real deal:
> $2 off the 4-pack (price after discount $8)...so 8 batteries bought as
> two 4-packs equals $16, which is usually the rock bottom price you'll
> find on these.
> For comparison...the 4-pack at Rite Aid is $10.99.
> - Bill WB8ELK
> You won't find any at the Madison AL Walgreens though....I bought them all.
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6722. Re: [GPSL] Lithium AA batteries on sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 03:28:46 UTC
From: Mike Manes
Topic: 6713 Message: 6722

It's 3000 mAh down to 1.0V per the Energizer data sheet at:
http://www.datasheetarchive.com/datasheet-pdf/016/DSA00271437.html
73 de Mike W5VSI

On 4/10/2010 07:11, Idle-Tyme wrote:
> Anyone remember what the mah rating of these are?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/10/2010 3:24 AM, wb8elk@... wrote:
>> Just visited Walgreen's....they have a sale (until 4/24 I think) on
>> the L91 Eveready AA Lithium cells I use on most flights.
>> $2 off the 8-pack (price after discount $18)
>> But here's the real deal:
>> $2 off the 4-pack (price after discount $8)...so 8 batteries bought as
>> two 4-packs equals $16, which is usually the rock bottom price you'll
>> find on these.
>> For comparison...the 4-pack at Rite Aid is $10.99.
>> - Bill WB8ELK
>> You won't find any at the Madison AL Walgreens though....I bought them
>> all.
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6723. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 03:46:03 UTC
From: Mike Manes
Topic: 6717 Message: 6723

The "anti-scud" rule kicks in above about 62K', but it's not supposed to apply unless the speed is also > Mach 1. Some GPS's top out at 20 km (about 100K' and others at 30 km (about 130k'). Then some intended for terrestrial use kick out at 18K'. Finally, many GPSs will die if you let 'em get too cold.

73 de Mike W5VSI

On 4/10/2010 10:26, Idle-Tyme wrote:
> If a GPS was to not work at a high altitude,,, at what altitude do they
> usually stop working at?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6724. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 02:55:47 UTC
From: Idle-Tyme
Topic: 6717 Message: 6724

On 4/10/2010 10:46 PM, Mike Manes wrote:
> The "anti-scud" rule kicks in above about 62K', but it's not supposed to
> apply unless the speed is also > Mach 1.
Ok,
> Some GPS's top out at 20 km (about
> 100K' and others at 30 km (about 130k').
For what reason?
> Then some intended for terrestrial
> use kick out at 18K'. Finally, many GPSs will die if you let 'em get too
> cold.
True
>
> 73 de Mike W5VSI
>
> On 4/10/2010 10:26, Idle-Tyme wrote:
>> If a GPS was to not work at a high altitude,,, at what altitude do they
>> usually stop working at?
>>
>> Joe
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>

6725. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 04:06:28 UTC
From: Mike Manes
Topic: 6717 Message: 6725

Hi Joe,

As Bill noted, some just don't provide enough digits in their
GGA sentences to go any higher, or they just truncate altitude
computation above some arbitrary figure.

Ralph W0RPK used to have a nice listing of the capabilities of a number
of different GPS engines on his web site before he retired, but I
can't find it any more. Maybe someone imported it before he retired?

73 de Mike W5VSI

On 4/10/2010 20:55, Idle-Tyme wrote:
>
> On 4/10/2010 10:46 PM, Mike Manes wrote:
>> The "anti-scud" rule kicks in above about 62K', but it's not supposed to
>> apply unless the speed is also > Mach 1.
> Ok,
>> Some GPS's top out at 20 km (about
>> 100K' and others at 30 km (about 130k').
> For what reason?
>> Then some intended for terrestrial
>> use kick out at 18K'. Finally, many GPSs will die if you let 'em get too
>> cold.
> True
>>
>> 73 de Mike W5VSI
>>
>> On 4/10/2010 10:26, Idle-Tyme wrote:
>>> If a GPS was to not work at a high altitude,,, at what altitude do they
>>> usually stop working at?
>>>
>>> Joe
>>> --
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6726. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 03:08:31 UTC
From: Zack Clobes
Topic: 6717 Message: 6726

Ralph's list is still online.

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

On Sat, Apr 10, 2010 at 11:06 PM, Mike Manes <mrmanes@gmail.com> wrote:

>
>
> Hi Joe,
>
> As Bill noted, some just don't provide enough digits in their
> GGA sentences to go any higher, or they just truncate altitude
> computation above some arbitrary figure.
>
> Ralph W0RPK used to have a nice listing of the capabilities of a number
> of different GPS engines on his web site before he retired, but I
> can't find it any more. Maybe someone imported it before he retired?
>
> 73 de Mike W5VSI
>
> On 4/10/2010 20:55, Idle-Tyme wrote:
> >
> > On 4/10/2010 10:46 PM, Mike Manes wrote:
> >> The "anti-scud" rule kicks in above about 62K', but it's not supposed to
> >> apply unless the speed is also > Mach 1.
> > Ok,
> >> Some GPS's top out at 20 km (about
> >> 100K' and others at 30 km (about 130k').
> > For what reason?
> >> Then some intended for terrestrial
> >> use kick out at 18K'. Finally, many GPSs will die if you let 'em get too
> >> cold.
> > True
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 4/10/2010 10:26, Idle-Tyme wrote:
> >>> If a GPS was to not work at a high altitude,,, at what altitude do they
> >>> usually stop working at?
> >>>
> >>> Joe
> >>> --
> >>>
> >>> The Original Rolling Ball Clock
> >>> Idle Tyme
> >>> Idle-Tyme.com

> >>> http://www.idle-tyme.com
> >>
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6727. Re: [GPSL] GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 04:20:59 UTC
From: Mike Manes
Topic: 6717 Message: 6727

Thanks, Zack. Not sure how these ol' eyeballs missed that link :=P.
73 de Mike W5VSI

On 4/10/2010 21:08, Zack Clobes wrote:
>
>
> Ralph's list is still online.
>
> http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm
>
> On Sat, Apr 10, 2010 at 11:06 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Joe,
>
> As Bill noted, some just don't provide enough digits in their
> GGA sentences to go any higher, or they just truncate altitude
> computation above some arbitrary figure.
>
> Ralph W0RPK used to have a nice listing of the capabilities of a number
> of different GPS engines on his web site before he retired, but I
> can't find it any more. Maybe someone imported it before he retired?
>
> 73 de Mike W5VSI
>
> On 4/10/2010 20:55, Idle-Tyme wrote:
> >
> > On 4/10/2010 10:46 PM, Mike Manes wrote:
> >> The "anti-scud" rule kicks in above about 62K', but it's not
> supposed to
> >> apply unless the speed is also > Mach 1.
> > Ok,
> >> Some GPS's top out at 20 km (about
> >> 100K' and others at 30 km (about 130k').
> > For what reason?
> >> Then some intended for terrestrial
> >> use kick out at 18K'. Finally, many GPSs will die if you let 'em
> get too
> >> cold.
> > True
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 4/10/2010 10:26, Idle-Tyme wrote:
> >>> If a GPS was to not work at a high altitude,,, at what altitude

> do they
> >>> usually stop working at?
> >>>
> >>> Joe
> >>> --
> >>>
> >>> The Original Rolling Ball Clock
> >>> Idle Tyme
> >>> Idle-Tyme.com
> >>> http://www.idle-tyme.com
> >>
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6728. Re: [Ballooning] Live Stream for EOSS-150 on 4/10

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 06:06:46 UTC
From: wb8elk@aol.com
Topic: 6728 Message: 6728

Congrats to EOSS on their 150th....I still remember EOSS-1 and the WVN flights prior to that like it was yesterday. I particularly enjoyed listening to the 10 meter beacon sending the temperature from Colorado to NH on one of those first flights. I still have the ear of corn from the payload I dropped into the only corn field in Colorado during your early 90's balloon conference.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: jscra@... <jscra@...>; EOSS membership reflector <EOSS@yahoogroups.com>
Cc: Ballooning@yahoogroups.com
Sent: Sat, Apr 10, 2010 10:12 pm
Subject: Re: [Ballooning] Live Stream for EOSS-150 on 4/10

Yeah? Well, that was back when you had hair, too, Jackson. :=).

Been a great run, Jack, and we all owe you a debt of gratitude
for taking the initiative to create EOSS and get it running like
a top!

I propose that we send Jack one of those pins that we hauled up
today.

73 de Mike W5VSI

On 4/9/2010 22:56, jscra@... wrote:
>
>
> I remember EOSS-1 just like it was yesterday. Wow, 150 and still going
> strong.
>
> ANSR will fly ANSR-55 tomorrow. It will be my number 105, between EOSS,
> ANSR and ERAU.
>
> ERAU-03 will fly on 4/22 from the Embry Riddle campus.
>
> Good luck with the flight.
>
> Jack Crabtree, W7JLC
>
>
>
>
>
> *On Fri Apr 9 19:34 , 'Rick von Glahn' sent:
>

> *
>
> **
>
> EOSS-150 will be launching at 7am MDT (13:00 UTC). We've got some guys
> working up a live broadcast capability. The stream is available at:
>
> eoss.tv
>
> or you could go into the eoss website to the page via this url:
>
> www.eoss.org/live/index.htm
>
> The first is a bit easier to remember.
>
> Current flight announcement data is at:
>
> http://www.eoss.org/flight <http://www.eoss.org/flight>
>
> and the prediction is at:
>
> http://www.eoss.org/flight/prediction.htm
> <http://www.eoss.org/flight/prediction.htm>
>
> If you are sort of near Denver (like within 400 miles) I run
> predictions for
> many locations outside of the immediate flight area. Look at:
>
> http://www.eoss.org/flight/distant_observers.htm
> <http://www.eoss.org/flight/distant_observers.htm>
>
> And see if your general area is covered. Not much info available
> but, the
> time the balloon rises above your local horizon is listed along with the
> azimuth of the bearing to the balloon as well as distance and the
> altitude
> of the balloon at that time. Also listed, max elevation for your
> site and
> the set time of the balloon.
>
> It's our 150th flight WOW, it has been a really fun 20 year run at
> EOSS!!!
>
> 73 -- Rick, N0KKZ
>
>
> --
> Msg sent via CableONE.net MyMail - http://www.cableone.net
>
>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6729. ARHAB launch announce - RoboMo & NAREA

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 13:06:48 UTC
From: ccccrnr@aim.com
Topic: 6729 Message: 6729

What is the typical process for announcing a balloon to get it listed on the website and qualify for any records if it sets any?

the RoboMo and NAREA groups of St Louis area want to schedule a 1st untethered balloon launch for either group.

May 1st 2010 from Winfield, MO to land in IL pending good enough weather of <10mph wind and clear visibility
back up date would be May 22, 2010 at this point

Thanks,
Carlton Corbitt
-.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..

6730. Re: [GPSL] ARHAB launch announce - RoboMo & NAREA

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 14:56:42 UTC
From: Mark Conner
Topic: 6729 Message: 6730

Posting announcements to the Yahoo "Balloon_Sked" list is preferred. You should also go to http://www.arhab.org and fill out the form at the "Submit launch information" link.

73 de Mark N9XTN

On Sun, Apr 11, 2010 at 08:06, <ccccrnr@...> wrote:

>
>
> What is the typical process for announcing a balloon to get it listed on
> the website and qualify for any records if it sets any?
>
>
> the RoboMo and NAREA groups of St Louis area want to schedule a 1st
> untethered balloon launch for either group.
>
> May 1st 2010 from Winfield, MO to land in IL pending good enough weather of
> <10mph wind and clear visibility
> back up date would be May 22, 2010 at this point
>
> Thanks,
> Carlton Corbitt
> -.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..
>
>
>

6731. Re: [GPSL] ARHAB launch announce - RoboMo & NAREA

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 21:56:16 UTC
From: Keith Kaiser
Topic: 6729 Message: 6731

To submit a launch announcement please go to http://www.arhab.org/annomail.html fill out the form and I'll get it on the web asap. Our official site is arhab.org

On Apr 11, 2010, at 8:06 AM, ccccrnr@... wrote:

>
> What is the typical process for announcing a balloon to get it listed on the website and qualify for any records if it sets any?
>
>
> the RoboMo and NAREA groups of St Louis area want to schedule a 1st untethered balloon launch for either group.
>
> May 1st 2010 from Winfield, MO to land in IL pending good enough weather of <10mph wind and clear visibility
> back up date would be May 22, 2010 at this point
>
> Thanks,
> Carlton Corbitt
> -.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..
>
>

6732. qualify for any records if it sets any?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-11 23:18:31 UTC
From: natewac@aol.com
Topic: 6729 Message: 6732

"qualify for any records if it sets any"?

Great question here. I'm really new and ignorant on this APRS stuff. If I were to receive APRS data, What exactly do I submit for the records? With findu.com I would assume all information could be had using this site. How can one tell that I received data directly and not by using Findu.com? So far I have been using a video camera to watch the realtime data (just in case) to confirm any contacts. Any help would be appriciated.

N8WAC,Tony

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Sun, Apr 11, 2010 5:56 pm
Subject: Re: [GPSL] ARHAB launch announce - RoboMo & NAREA

To submit a launch announcement please go to http://www.arhab.org/annomail.html fill out the form and I'll get it on the web asap. Our official site is arhab.org

On Apr 11, 2010, at 8:06 AM, ccccrnr@... wrote:

What is the typical process for announcing a balloon to get it listed on the website and qualify for any records if it sets any?

the RoboMo and NAREA groups of St Louis area want to schedule a 1st untethered balloon launch for either group.

May 1st 2010 from Winfield, MO to land in IL pending good enough weather of <10mph wind and clear visibility
back up date would be May 22, 2010 at this point

Thanks,
Carlton Corbitt
-.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..

6733. Re: [GPSL] Re: [Ballooning] Live Stream for EOSS-150 on 4/10

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 03:16:50 UTC
From: Mike Manes
Topic: 6728 Message: 6733

Hi Bill,

Yeah, those were the days when we had to DF triangulate to get a fix.
And when we learned that 10m doesn't propagate over the ground worth
a hoot - we had to use Air One to find it out east. GPS and APRS
make the T&R job comparatively trivial nowadays.

And EOSS-1 actually was WVN-1 - we kinda decided to highjack it, since
it was the same group that became EOSS shortly afterwards.

That conference that coincided with EOSS-13 and your 'ELK-gazillion?
took an enormous amount of work to put together, what with publishing
a proceedings and all. It was attended by guys from Winzen and Kaysam,
IIRC, and there was one of Bob Bruninga's first papers on ARPS in there
as well. I think that was one of the first flights of our cross-band
repeater as well, when we learned that it's a bad idea to leave the 70 cm
uplink rcvr squelch open, since that made the 2m downlink real hard to DF on.

73 de Mike W5VSI

On 4/11/2010 00:06, wb8elk@... wrote:
>
>
> Congrats to EOSS on their 150th....I still remember EOSS-1 and the WVN
> flights prior to that like it was yesterday. I particularly enjoyed
> listening to the 10 meter beacon sending the temperature from Colorado
> to NH on one of those first flights. I still have the ear of corn from
> the payload I dropped into the only corn field in Colorado during your
> early 90's balloon conference.
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: jscra@... <jscra@...>; EOSS membership reflector
> <EOSS@yahoogroups.com>
> Cc: Ballooning@yahoogroups.com
> Sent: Sat, Apr 10, 2010 10:12 pm
> Subject: Re: [Ballooning] Live Stream for EOSS-150 on 4/10
>
> Yeah? Well, that was back when you had hair, too, Jackson. :=).
>
> Been a great run, Jack, and we all owe you a debt of gratitude
> for taking the initiative to create EOSS and get it running like
> a top!

>
> I propose that we send Jack one of those pins that we hauled up
> today.
>
> 73 de Mike W5VSI
>
> On 4/9/2010 22:56, jscra@... <mailto:jscra%40cableone.net> wrote:
> >
> >
> > I remember EOSS-1 just like it was yesterday. Wow, 150 and still going
> > strong.
> >
> > ANSR will fly ANSR-55 tomorrow. It will be my number 105, between EOSS,
> > ANSR and ERAU.
> >
> > ERAU-03 will fly on 4/22 from the Embry Riddle campus.
> >
> > Good luck with the flight.
> >
> > Jack Crabtree, W7JLC
> >
> >
> >
> >
> >
> > *On Fri Apr 9 19:34 , 'Rick von Glahn' sent:
> >
> > *
> >
> > **
> >
> > EOSS-150 will be launching at 7am MDT (13:00 UTC). We've got some guys
> > working up a live broadcast capability. The stream is available at:
> >
> > eoss.tv
> >
> > or you could go into the eoss website to the page via this url:
> >
> > www.eoss.org/ <http://www.eoss.org/>live/index.htm
> >
> > The first is a bit easier to remember.
> >
> > Current flight announcement data is at:
> >
> > http://www.eoss.org/flight <http://www.eoss.org/flight>
> <http://www.eoss.org/flight <http://www.eoss.org/flight>>
> >
> > and the prediction is at:
> >
> > http://www.eoss.org/flight/prediction.htm

> <http://www.eoss.org/flight/prediction.htm>
> > <http://www.eoss.org/flight/prediction.htm
> <http://www.eoss.org/flight/prediction.htm>>
> >
> > If you are sort of near Denver (like within 400 miles) I run
> > predictions for
> > many locations outside of the immediate flight area. Look at:
> >
> > http://www.eoss.org/flight/distant_observers.htm
> <http://www.eoss.org/flight/distant_observers.htm>
> > <http://www.eoss.org/flight/distant_observers.htm
> <http://www.eoss.org/flight/distant_observers.htm>>
> >
> > And see if your general area is covered. Not much info available
> > but, the
> > time the balloon rises above your local horizon is listed along with the
> > azimuth of the bearing to the balloon as well as distance and the
> > altitude
> > of the balloon at that time. Also listed, max elevation for your
> > site and
> > the set time of the balloon.
> >
> > It's our 150th flight WOW, it has been a really fun 20 year run at
> > EOSS!!!
> >
> > 73 -- Rick, N0KKZ
> >
> >
> > --
> > Msg sent via CableONE.net MyMail - http://www.cableone.net
> <http://www.cableone.net/>
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6734. Fwd: Geiger Counter Payload found in St. Henry, OH

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 15:00:04 UTC
From: L. Paul Verhage
Topic: 6734 Message: 6734

Anyone know about this?

Paul

---------- Forwarded message ----------
From: Bryan J. Boardman / Aware Electronics Corp. <boardmanb@...>
Date: Mon, Apr 12, 2010 at 9:52 AM
Subject: Re: New Software
To: "L. Paul Verhage" <nearsys@...>

Dear Paul,

Heard from someone today from St. Henry OH. He found a balloon payload
styrofoam box with two RM-60s and a 900 mhz transmitter inside.

Do you know anything about it?

Bryan

6735. Re: [GPSL] Fwd: Geiger Counter Payload found in St. Henry, OH

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 15:22:21 UTC
From: dvpatterson@comcast.net
Topic: 6734 Message: 6735

Sounds a lot like part of a Taylor University HARP package... Jeff Dailey (copied) is principle contact for that group now.

-David

----- Original Message -----
From: "L. Paul Verhage" <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Monday, April 12, 2010 9:00:04 AM GMT -07:00 US/Canada Mountain
Subject: [GPSL] Fwd: Geiger Counter Payload found in St. Henry, OH

Anyone know about this?

Paul

---------- Forwarded message ----------
From: Bryan J. Boardman / Aware Electronics Corp. < boardmanb@... >
Date: Mon, Apr 12, 2010 at 9:52 AM
Subject: Re: New Software
To: "L. Paul Verhage" < nearsys@... >

Dear Paul,

Heard from someone today from St. Henry OH. He found a balloon payload styrofoam box with two RM-60s and a 900 mhz transmitter inside.

Do you know anything about it?

Bryan

6736. How To Manual

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 16:08:54 UTC
From: Keith Kaiser
Topic: 6736 Message: 6736

I've been contacted by a local high school here in the KC area looking to set up their own ARHAB program. Does anyone have a picture of the equipment requirements for such a thing? What I'm thinking about is a simple guide to hooking everything together, for example;

1) The balloon systems... i.e. balloon, parachute, etc.
2) Nearsat system... i.e. 2m handheld, TNC, batteries, camera, etc.
3) Tracking system... i.e. receiver, TNC, computer etc.
4) Software systems... i.e. Xastir, UIview, etc.

I know I've seen a really good write up by someone somewhere but I can't remember where or find it via Google. So if you have something these guys might be able to use please point me at it.

Thanks...

6737. Re: [GPSL] How To Manual

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 16:11:40 UTC
From: L. Paul Verhage
Topic: 6736 Message: 6737

It's a little bit dated, but my book on Parallax explains everything.

Paul

On Mon, Apr 12, 2010 at 11:08 AM, Keith Kaiser <wa0tjt@...> wrote:

> I've been contacted by a local high school here in the KC area looking to
> set up their own ARHAB program. Does anyone have a picture of the equipment
> requirements for such a thing? What I'm thinking about is a simple guide to
> hooking everything together, for example;
>
> 1) The balloon systems... i.e. balloon, parachute, etc.
> 2) Nearsat system... i.e. 2m handheld, TNC, batteries, camera, etc.
> 3) Tracking system... i.e. receiver, TNC, computer etc.
> 4) Software systems... i.e. Xastir, UIview, etc.
>
> I know I've seen a really good write up by someone somewhere but I can't
> remember where or find it via Google. So if you have something these guys
> might be able to use please point me at it.
>
> Thanks...
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

6738. Re: [GPSL] Fwd: Geiger Counter Payload found in St. Henry, OH

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 18:43:24 UTC
From: BASE
Topic: 6734 Message: 6738

I would suggest that the payload came from the TU HARP flight last October that experienced pre-burst chaos. It was in that general area when the chaos caused payload separation.
Howard

--- On Mon, 4/12/10, dvpatterson@... <dvpatterson@...> wrote:

From: dvpatterson@...t <dvpatterson@...>
Subject: Re: [GPSL] Fwd: Geiger Counter Payload found in St. Henry, OH
To: gpsl@yahoogroups.com
Cc: jfdailey@..., boardmanb@...
Date: Monday, April 12, 2010, 11:22 AM

Sounds a lot like part of a Taylor University HARP package... Jeff Dailey (copied) is principle contact for that group now.

-David

----- Original Message -----
From: "L. Paul Verhage" <nearsys@gmail. com>
To: gpsl@yahoogroups. com
Sent: Monday, April 12, 2010 9:00:04 AM GMT -07:00 US/Canada Mountain
Subject: [GPSL] Fwd: Geiger Counter Payload found in St. Henry, OH

Anyone know about this?

Paul

---------- Forwarded message ----------
From: Bryan J. Boardman / Aware Electronics Corp. <boardmanb@aw- el.com>
Date: Mon, Apr 12, 2010 at 9:52 AM
Subject: Re: New Software
To: "L. Paul Verhage" <nearsys@gmail. com>

Dear Paul,

Heard from someone today from St. Henry OH. He found a balloon payload styrofoam box with two RM-60s and a 900 mhz transmitter inside.

Do you know anything about it?

Bryan

6739. Re: [GPSL] How To Manual

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 20:00:21 UTC
From: Mike Manes
Topic: 6736 Message: 6739

Hi Keith,

Here's a link to a somewhat dated pub that got a lot of today's
balloon groups started:

http://www.eoss.org/handbook/handbook.htm

73 de Mike W5VSI
CTO EOSS

On 4/12/2010 10:08, Keith Kaiser wrote:
> I've been contacted by a local high school here in the KC area looking to set up their own ARHAB program. Does anyone have a picture of the equipment requirements for such a thing? What I'm thinking about is a simple guide to hooking everything together, for example;
>
> 1) The balloon systems... i.e. balloon, parachute, etc.
> 2) Nearsat system... i.e. 2m handheld, TNC, batteries, camera, etc.
> 3) Tracking system... i.e. receiver, TNC, computer etc.
> 4) Software systems... i.e. Xastir, UIview, etc.
>
> I know I've seen a really good write up by someone somewhere but I can't remember where or find it via Google. So if you have something these guys might be able to use please point me at it.
>
> Thanks...
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6740. Micro Altimeter MS5607 | Servoflo Cooperation

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 20:17:57 UTC
From: Mike Manes
Topic: 6740 Message: 6740

The ad for this new device quoted samples for $16. Might be nice for
a logger using a bigger PICAXE with I2C?
73 de Mike W5VSI

http://www.servoflo.com/pressure-sensors/item/digital-high-pressure-absolute/ms5607.html
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6741. Re: [GPSL] Micro Altimeter MS5607 | Servoflo Cooperation

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-12 19:51:29 UTC
From: L. Paul Verhage
Topic: 6740 Message: 6741

At 10 mB, it will get you to 100,000 feet. It's also surface mount, so get
a PCB breakout or make your own.

Paul

On Mon, Apr 12, 2010 at 3:17 PM, Mike Manes <mrmanes@...> wrote:

> The ad for this new device quoted samples for $16. Might be nice for
> a logger using a bigger PICAXE with I2C?
> 73 de Mike W5VSI
>
>
> http://www.servoflo.com/pressure-sensors/item/digital-high-pressure-absolute/ms5607.html
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6742. Radio Shield for Arduino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 14:19:17 UTC
From: Mark Conner
Topic: 6742 Message: 6742

https://www.argentdata.com/catalog/product_info.php?products_id=136

AX.25 interface for Arduino for $28. I'm seeing a replacement for my BasicStamp/DataTrak combo coming in the future.

73 de Mark N9XTN

6743. 1000g weather balloons on eBay for $39

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 14:23:19 UTC
From: Mark Conner
Topic: 6743 Message: 6743

http://cgi.ebay.com/Kaymont-Meteorological-Weather-Balloon-1000-Grams_W0QQitemZ170472309221QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item27b0f101e5

$34 plus 4.99 shipping. I got a couple from this seller and they are in very good condition.

73 de Mark N9XTN

6744. APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 19:41:45 UTC
From: natewac@aol.com
Topic: 6744 Message: 6744

I submitted this the other day without a reply. Hopefully someone will be able to answer this for me.

I'm really new on APRS. My intention is to try to make the record books via APRS Data receipting. If I were to receive APRS data, What exactly do I submit for the records in order for the receiption to be recognized? With Findu.com I would assume all information could be had using this site. How can one tell that I received data directly from the balloon and not by using Findu.com? Does received APRS data have more information than what Findu.com shows? Again I'm new with APRS. So far I have been using a video camera to record the realtime data (just in case) to confirm any receiption. Any help would be appriciated.

N8WAC,Tony

6745. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 19:59:32 UTC
From: Keith Kaiser
Topic: 6744 Message: 6745

Tony,

The problem isn't that you asked a question but the question itself. Few if any "records" are kept on or about just receiving a signal. Most if not all are based on a two-way conversation or exchange of information. For example because of a balloon launched in Missouri, a station in Texas was able through the onboard repeater cary on a conversation or an exchange of information with another station in Michigan. In the 2m band this would not normally be possible and even through a high altitude balloon is very uncommon. So a record of this might be considered.

But I do not currently maintain any "records" of receipt of a signal. However it may be of interest to the ARHAB community to hear about your receipt so by all means tell us about it on this forum.

You and i have discussed this before and as you know I keep the records for the ARHAB community. I can't think off-hand how I would ask for proof of this kind of "new" record to be kept.

On Apr 13, 2010, at 2:41 PM, natewac@... wrote:

>
>
> I submitted this the other day without a reply. Hopefully someone will be able to answer this for me.
>
>
> I'm really new on APRS. My intention is to try to make the record books via APRS Data receipting. If I were to receive APRS data, What exactly do I submit for the records in order for the receiption to be recognized? With Findu.com I would assume all information could be had using this site. How can one tell that I received data directly from the balloon and not by using Findu.com? Does received APRS data have more information than what Findu.com shows? Again I'm new with APRS. So far I have been using a video camera to record the realtime data (just in case) to confirm any receiption. Any help would be appriciated.
>
> N8WAC,Tony
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>

6746. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 20:24:17 UTC
From: Mark Conner
Topic: 6744 Message: 6746

Keith,

I think Nate is looking for the proof standards for the "*Greatest Telemetry Downlink Reception Range" record category. See about halfway down on http://www.arhab.org/ARHABrecords.htm.*

In the past, Ralph W0RPK has accept e-mail copies of the log data generated by the APRS program or TNC capture, along with a statement of the sender where the receiving equipment was located (lat/lon). The APRS data would contain the balloon's location, and from that he could generate a great-circle distance and thus track records for telemetry reception.

In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.

73 de Mark N9XTN

On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Tony,
>
> The problem isn't that you asked a question but the question itself. Few if
> any "records" are kept on or about just receiving a signal. Most if not all
> are based on a two-way conversation or exchange of information. For example
> because of a balloon launched in Missouri, a station in Texas was able
> through the onboard repeater cary on a conversation or an exchange of
> information with another station in Michigan. In the 2m band this would not
> normally be possible and even through a high altitude balloon is very
> uncommon. So a record of this might be considered.
>
> But I do not currently maintain any "records" of receipt of a signal.
> However it may be of interest to the ARHAB community to hear about your
> receipt so by all means tell us about it on this forum.
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> You and i have discussed this before and as you know I keep the records for
> the ARHAB community. I can't think off-hand how I would ask for proof of
> this kind of "new" record to be kept.
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> On Apr 13, 2010, at 2:41 PM, natewac@... wrote:
>

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> can one tell that I received data directly from the balloon and not by using
> Findu.com? Does received APRS data have more information than what
> Findu.com shows? Again I'm new with APRS. So far I have been using a video
> camera to record the realtime data (just in case) to confirm any receiption.
> Any help would be appriciated.
>
> N8WAC,Tony
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6747. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 21:09:06 UTC
From: natewac@aol.com
Topic: 6744 Message: 6747

Mark, You hit the nail on the head "(In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception)". Since I'm brand new using APRS I've only tried to receive just a couple of balloons. As I watched them on Findu.com I asked myself "What more information is needed to be submitted than what is on Findu"? This is the reasoning of video recording my realtime receiption. I guess to post on Youtube for proof of receiption. And I'm not sure if this would even be good enough. Any thoughts from you guys......

N8WAC,Tony

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Tue, Apr 13, 2010 4:24 pm
Subject: Re: [GPSL] APRS Data receipting

Keith,

I think Nate is looking for the proof standards for the "Greatest Telemetry Downlink Reception Range" record category. See about halfway down on http://www.arhab.org/ARHABrecords.htm.

In the past, Ralph W0RPK has accept e-mail copies of the log data generated by the APRS program or TNC capture, along with a statement of the sender where the receiving equipment was located (lat/lon). The APRS data would contain the balloon's location, and from that he could generate a great-circle distance and thus track records for telemetry reception.

In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.

73 de Mark N9XTN

On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@...> wrote:

Tony,

The problem isn't that you asked a question but the question itself. Few if any "records" are kept on or about just receiving a signal. Most if not all are based on a two-way conversation or exchange of information. For example because of a balloon launched in Missouri, a station in Texas was able through the onboard repeater cary on a conversation or an exchange of information with another station in Michigan. In the 2m band this would not normally be possible and even through a high altitude balloon is very uncommon. So a record of this might be considered.

But I do not currently maintain any "records" of receipt of a signal. However it may be of interest to the ARHAB community to hear about your receipt so by all means tell us about it on this forum.

You and i have discussed this before and as you know I keep the records for the ARHAB community. I can't think off-hand how I would ask for proof of this kind of "new" record to be kept.

On Apr 13, 2010, at 2:41 PM, natewac@... wrote:

I submitted this the other day without a reply. Hopefully someone will be able to answer this for me.

I'm really new on APRS. My intention is to try to make the record books via APRS Data receipting. If I were to receive APRS data, What exactly do I submit for the records in order for the receiption to be recognized? With Findu.com I would assume all information could be had using this site. How can one tell that I received data directly from the balloon and not by using Findu.com? Does received APRS data have more information than what Findu.com shows? Again I'm new with APRS. So far I have been using a video camera to record the realtime data (just in case) to confirm any receiption. Any help would be appriciated.

N8WAC,Tony

6748. Re: [GPSL] Radio Shield for Arduino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-13 21:50:10 UTC
From: Zack Clobes
Topic: 6742 Message: 6748

I've got an "ArduinoTrack" design that I'm flying for the first time May 1. It is an Arduino-based board, with built in TNC, integrated GPS. My intention is to have the standard Arduino headers on the next PCB version so that it can be mated to other shields.

Zack Clobes, W0ZC
Project: Traveler

On Tue, Apr 13, 2010 at 9:19 AM, Mark Conner <mconner1@...> wrote:

>
>
> https://www.argentdata.com/catalog/product_info.php?products_id=136
>
> AX.25 interface for Arduino for $28. I'm seeing a replacement for my
> BasicStamp/DataTrak combo coming in the future.
>
> 73 de Mark N9XTN
>
>
>
>

6749. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 01:26:05 UTC
From: wb8elk@aol.com
Topic: 6744 Message: 6749

Hi Keith and Nate....I would think that's what Nate is referring to.... but the APRS reception would have to be a communications received DIRECTLY by the station sending in the record...not via a digipeater hop....you can tell that by looking at the APRS header to make sure there are no digipeater callsigns in the header.....the record of 478 miles that I have listed in that category was based on a clear channel 144.34 MHz reception of APRS from a balloon over Findlay, Ohio as received here in Alabama....so no digipeaters were involved on that frequency. It could be a difficult feat to set a record on 144.39 by trying to filter out the direct signal from the digipeated ones. I'd advise Nate to try for the Greatest Telemetry Downlink Reception Range record by receiving either balloon APRS signals when sent on something other than 144.39...or by receiving one of the multi-mode digital signals (such as DominoEX) like I send on 144.36 or 144.34 from here....going to have another one going up this Sunday morning on 144.34 if you want to try for that one Nate....use FLdigi to decode it on DominoEX22.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@gmail.com>
To: GPSL@yahoogroups.com
Sent: Tue, Apr 13, 2010 3:24 pm
Subject: Re: [GPSL] APRS Data receipting

Keith,

I think Nate is looking for the proof standards for the "Greatest Telemetry Downlink Reception Range" record category. See about halfway down on http://www.arhab.org/ARHABrecords.htm.

In the past, Ralph W0RPK has accept e-mail copies of the log data generated by the APRS program or TNC capture, along with a statement of the sender where the receiving equipment was located (lat/lon). The APRS data would contain the balloon's location, and from that he could generate a great-circle distance and thus track records for telemetry reception.

In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.

73 de Mark N9XTN

On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@...> wrote:

Tony,

The problem isn't that you asked a question but the question itself. Few if any "records" are kept on or about just receiving a signal. Most if not all are based on a two-way conversation or exchange of information. For example because of a balloon launched in Missouri, a station in Texas was able through the onboard repeater cary on a conversation

or an exchange of information with another station in Michigan. In the 2m band this would not normally be possible and even through a high altitude balloon is very uncommon. So a record of this might be considered.

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On Apr 13, 2010, at 2:41 PM, natewac@... wrote:

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I'm really new on APRS. My intention is to try to make the record books via APRS Data receipting. If I were to receive APRS data, What exactly do I submit for the records in order for the receiption to be recognized? With Findu.com I would assume all information could be had using this site. How can one tell that I received data directly from the balloon and not by using Findu.com? Does received APRS data have more information than what Findu.com shows? Again I'm new with APRS. So far I have been using a video camera to record the realtime data (just in case) to confirm any receiption. Any help would be appriciated.

N8WAC,Tony

6750. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 08:20:56 UTC
From: natewac@aol.com
Topic: 6744 Message: 6750

Bill, Thanks for the reply. I understand the balloon would have to be heard directly and not via digipeater. Lets say your balloon goes up this Sunday. And it's being tracked on Findu.com. Even though I can't hear it, And even though it's wrong I submit the long,lat and balloon higth that I see from Findu.com just to get in the record books. I would never do this...but it would be possible to buffalo someone wouldn't it? Don't get me wrong I think tracking the balloon using Findu.com is a very important tool. I'm just wondering how one would know if the data was received directly or via Findu?

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Tue, Apr 13, 2010 9:26 pm
Subject: Re: [GPSL] APRS Data receipting

Hi Keith and Nate....I would think that's what Nate is referring to.... but the APRS reception would have to be a communications received DIRECTLY by the station sending in the record...not via a digipeater hop....you can tell that by looking at the APRS header to make sure there are no digipeater callsigns in the header.....the record of 478 miles that I have listed in that category was based on a clear channel 144.34 MHz reception of APRS from a balloon over Findlay, Ohio as received here in Alabama....so no digipeaters were involved on that frequency. It could be a difficult feat to set a record on 144.39 by trying to filter out the direct signal from the digipeated ones. I'd advise Nate to try for the Greatest Telemetry Downlink Reception Range record by receiving either balloon APRS signals when sent on something other than 144.39...or by receiving one of the multi-mode digital signals (such as DominoEX) like I send on 144.36 or 144.34 from here....going to have another one going up this Sunday morning on 144.34 if you want to try for that one Nate....use FLdigi to decode it on DominoEX22.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Tue, Apr 13, 2010 3:24 pm
Subject: Re: [GPSL] APRS Data receipting

Keith,

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N8WAC,Tony

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Tue, Apr 13, 2010 3:24 pm
Subject: Re: [GPSL] APRS Data receipting

Keith,

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Tony,

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N8WAC,Tony

6751. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 13:05:28 UTC
From: Keith Kaiser
Topic: 6744 Message: 6751

Nate you were going to try and track w0nsv-11 this past Sunday, did you hear it? I was on 144.39Mhz a non-traditional APRS frequency however I was also iGating it into the findu system via Xastir and a high-speed Verizon dongle.

We launched at exactly 8:40am.

On Apr 14, 2010, at 3:20 AM, natewac@aol.com wrote:

>
> Bill, Thanks for the reply. I understand the balloon would have to be heard directly and not via digipeater. Lets say your balloon goes up this Sunday. And it's being tracked on Findu.com. Even though I can't hear it, And even though it's wrong I submit the long,lat and balloon higth that I see from Findu.com just to get in the record books. I would never do this...but it would be possible to buffalo someone wouldn't it? Don't get me wrong I think tracking the balloon using Findu.com is a very important tool. I'm just wondering how one would know if the data was received directly or via Findu?
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> -----Original Message-----
> From: wb8elk@...
> To: GPSL@yahoogroups.com
> Sent: Tue, Apr 13, 2010 9:26 pm
> Subject: Re: [GPSL] APRS Data receipting
>
>
> Hi Keith and Nate....I would think that's what Nate is referring to.... but the APRS reception would have to be a communications received DIRECTLY by the station sending in the record...not via a digipeater hop....you can tell that by looking at the APRS header to make sure there are no digipeater callsigns in the header.....the record of 478 miles that I have listed in that category was based on a clear channel 144.34 MHz reception of APRS from a balloon over Findlay, Ohio as received here in Alabama....so no digipeaters were involved on that frequency. It could be a difficult feat to set a record on 144.39 by trying to filter out the direct signal from the digipeated ones. I'd advise Nate to try for the Greatest Telemetry Downlink Reception Range record by receiving either balloon APRS signals when sent on something other than 144.39...or by receiving one of the multi-mode digital signals (such as DominoEX) like I send on 144.36 or 144.34 from here....going to have another one going up this Sunday morning on 144.34 if you want to try for that one Nate....use FLdigi to decode it on DominoEX22.
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> - Bill WB8ELK
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> -----Original Message-----
> From: Mark Conner <mconner1@gmail.com>
> To: GPSL@yahoogroups.com
> Sent: Tue, Apr 13, 2010 3:24 pm
> Subject: Re: [GPSL] APRS Data receipting
>
>
> Keith,
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> I think Nate is looking for the proof standards for the "Greatest Telemetry Downlink Reception Range" record category. See about halfway down on http://www.arhab.org/ARHABrecords.htm.
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> In the past, Ralph W0RPK has accept e-mail copies of the log data generated by the APRS program or TNC capture, along with a statement of the sender where the receiving equipment was located (lat/lon). The APRS data would contain the balloon's location, and from that he could generate a great-circle distance and thus track records for telemetry reception.
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> In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.
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> 73 de Mark N9XTN
>
>
> On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@...> wrote:
>
>
> Tony,
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> The problem isn't that you asked a question but the question itself. Few if any "records" are kept on or about just receiving a signal. Most if not all are based on a two-way conversation or exchange of information. For example because of a balloon launched in Missouri, a station in Texas was able through the onboard repeater cary on a conversation or an exchange of information with another station in Michigan. In the 2m band this would not normally be possible and even through a high altitude balloon is very uncommon. So a record of this might be considered.
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be kept.
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> On Apr 13, 2010, at 2:41 PM, natewac@... wrote:
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>> I submitted this the other day without a reply. Hopefully someone will be able to answer this for me.
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>> N8WAC,Tony
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6752. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 15:45:51 UTC
From: Alan Sieg WB5RMG
Topic: 6744 Message: 6752

Tony,
Bill's new telemetry sender is using a format that does not decode
and automatically appear on FindU or any of the APRS-IS sites.

If you download the dl-fldigi program, and receive the packets they will
be sent over your internet conenction to a collection site, and published.
This is different than the typical APRS telemetry mode, no digipeaters.
Reporting in this fashion would readily confirm your direct reception.

I don't have all the details with me at work, but I'd be happy to share
the links and setup tips once I get home this evening. I was only
introduced to the dl-fldigi program last week, but it worked great for me.
It uses the soundcard of your PC for the modem - headphone jack out of
the radio into the mic input of the laptop/desktop ... pretty simple.

73 for now /;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

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6753. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 17:54:50 UTC
From: wb8elk@aol.com
Topic: 6744 Message: 6753

Hi Nate,

You can tell whether it's from Findu, digipeated or direct by looking at the header field before the data portion of the packet. I'm not at a computer where I can send you the detailed info in that regards....a search on APRS on Google might get you that info.

- Bill

-----Original Message-----
From: natewac@...
To: GPSL@yahoogroups.com
Sent: Wed, Apr 14, 2010 3:20 am
Subject: Re: [GPSL] APRS Data receipting

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6754. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 19:02:12 UTC
From: natewac@aol.com
Topic: 6744 Message: 6754

No I didn't her it. I stopped trying around 60,000 ft. I did however start hearing the W3EAX-11 (Maryland) balloon at around 79,000 ft. It popped about 83,000 but before it was strong enough to gather data. I'm was told the transmitter was about 300 milliwatts. When at 80,000 ft the balloon was about 358 miles from my QTH.

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Wed, Apr 14, 2010 9:05 am
Subject: Re: [GPSL] APRS Data receipting

Nate you were going to try and track w0nsv-11 this past Sunday, did you hear it? I was on 144.39Mhz a non-traditional APRS frequency however I was also iGating it into the findu system via Xastir and a high-speed Verizon dongle.

We launched at exactly 8:40am.

On Apr 14, 2010, at 3:20 AM, natewac@... wrote:

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Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 19:06:50 UTC
From: natewac@aol.com
Topic: 6744 Message: 6755

I appreciate the offer. I have Fldigi but unfortunately the computer that's in does not have Internet access. I've been using it about 3 weeks now. It is a very good program. And I'm sure I'm not using it to it's full potential. Thanks agin.

N8WAC

-----Original Message-----
From: Alan Sieg WB5RMG <wb5rmg@...>
To: GPSL@yahoogroups.com
Sent: Wed, Apr 14, 2010 11:45 am
Subject: Re: [GPSL] APRS Data receipting

Tony,
Bill's new telemetry sender is using a format that does not decode
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If you download the dl-fldigi program, and receive the packets they will
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This is different than the typical APRS telemetry mode, no digipeaters.
Reporting in this fashion would readily confirm your direct reception.

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> appriciated.
>
> N8WAC,Tony
>
> - Bill WB8ELK
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL@yahoogroups.com
> Sent: Tue, Apr 13, 2010 3:24 pm
> Subject: Re: [GPSL] APRS Data receipting
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> Keith,
>
> I think Nate is looking for the proof standards for the "Greatest Telemetry
> Downlink Reception Range" record category. See about halfway down on
> http://www.arhab.org/ARHABrecords.htm.
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> 73 de Mark N9XTN
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> On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@...> wrote:
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> Tony,
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6756. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 19:48:26 UTC
From: BASE
Topic: 6744 Message: 6756

Tony,
Personally, I believe that the foundation of all of the ARHAB records follows from the principle of being trustworthy. All of amateur radio actually is based on this principle. It is almost impossible to have foolproof verification. I know that when you worked the crossband repeater on our BASE 39 flight last summer, the record verification depended on your word of honor and that of the NØUOE.
Certainly, any distance much greater than the anticipated line of sight radio horizon would be viewed skeptically. Of course, if there were favorable skipping conditions, then a forgery at long distance might also be accepted.
Howard, KC9QBN
P.S. - I'm planning on trying to float the crossband repeater again this year from the SpaceJam 4 event at Rantoul, IL on August 7. If we get lucky, maybe you and Keith, WA0TJT could make contact. That would be an EBE event at about 600 miles.

--- On Wed, 4/14/10, natewac@... <natewac@...> wrote:

From: natewac@... <natewac@...>
Subject: Re: [GPSL] APRS Data receipting
To: GPSL@yahoogroups.com
Date: Wednesday, April 14, 2010, 4:20 AM

Bill, Thanks for the reply. I understand the balloon would have to be heard directly and not via digipeater. Lets say your balloon goes up this Sunday. And it's being tracked on Findu.com. Even though I can't hear it, And even though it's wrong I submit the long,lat and balloon higth that I see from Findu.com just to get in the record books. I would never do this...but it would be possible to buffalo someone wouldn't it? Don't get me wrong I think tracking the balloon using Findu.com is a very important tool. I'm just wondering how one would know if the data was received directly or via Findu?

-----Original Message-----

From: wb8elk@...

To: GPSL@yahoogroups. com

Sent: Tue, Apr 13, 2010 9:26 pm

Subject: Re: [GPSL] APRS Data receipting

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To: GPSL@yahoogroups. com

Sent: Tue, Apr 13, 2010 3:24 pm

Subject: Re: [GPSL] APRS Data receipting

Keith,

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In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.

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N8WAC,Tony

6757. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 20:01:01 UTC
From: Idle-Tyme
Topic: 6744 Message: 6757
Attachments: 1 described; binary payloads are missing from this source WARC

Howard,

What are you using for your crossband repeater?

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/14/2010 2:48 PM, BASE wrote:
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6758. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 20:16:32 UTC
From: BASE
Topic: 6744 Message: 6758
Attachments: 1 described; binary payloads are missing from this source WARC

I'll be flying the same system as last summer, uplink on 144.36HHz downlink on 446.025 MHz. It is a unit that I borrow from Jeff Dailey that he built. I don't have any equipment specifics.

Howard
--- On Wed, 4/14/10, Idle-Tyme <nss@...> wrote:

From: Idle-Tyme <nss@...>
Subject: Re: [GPSL] APRS Data receipting
To: GPSL@yahoogroups.com
Cc: "BASE" <basedepauw@...>
Date: Wednesday, April 14, 2010, 4:01 PM

Howard,

What are you using for your crossband repeater?

Joe WB9SBD

Near Space Sciences KB9KHO

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

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Certainly, any
distance much greater than the anticipated line of sight radio horizon
would be viewed skeptically. Of course, if there were favorable
skipping conditions, then a forgery at long distance might also be
accepted.

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P.S. - I'm
planning on trying to float the crossband repeater again this year from the SpaceJam 4 event at Rantoul, IL on August 7. If we get lucky, maybe you and Keith, WA0TJT could make contact. That would be an EBE event at about 600 miles.

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Subject: Re: [GPSL] APRS Data receipting

To: GPSL@yahoogroups.com

Date: Wednesday, April 14, 2010, 4:20 AM

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From: wb8elk@...

To: GPSL@yahoogroups. com

Sent: Tue, Apr 13, 2010 9:26 pm

Subject: Re: [GPSL] APRS Data receipting

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6759. Re: [GPSL] APRS Data receipting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 20:43:43 UTC
From: natewac@aol.com
Topic: 6744 Message: 6759

Howard,

"any distance much greater than the anticipated line of sight radio horizon would be viewed skeptically." To be honest with you this statement is the reason why I brought up this subject. I saw some of the data reception records have been held for many years. With the antennas that have (4x13b2's=52 elements vertical) I would think that I have a good chance of getting a high ranking at some point in time. I've always played by the rules and I just didn't want someone to think that cheating took place. After all it does look easy for one to manipulate the system. Not that anyone would...but we have all seen stranger things.

As for SpaceJam 4.......I would love to give that a shot! Please keep us in mind as the time gets closer. Thanks for the thought.

N8WAC,Tony

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In theory, there is nothing to prevent total fabrication of a record claim for APRS data reception - even with TNC time hacks, etc., that could be fabricated by hand. Simple checks would prevent implausibly long records from being claimed though.

73 de Mark N9XTN

On Tue, Apr 13, 2010 at 14:59, Keith Kaiser <wa0tjt@gmail. com> wrote:

Tony,

The problem isn't that you asked a question but the question itself. Few if any "records" are kept on or about just receiving a signal. Most if not all are based on a two-way conversation or exchange of information. For example because of a balloon launched in Missouri, a station in Texas was able through the onboard repeater cary on a conversation or an exchange of information with another station in Michigan. In the 2m band this would not normally be possible and even through a high altitude balloon is very uncommon. So a record of this might be considered.

But I do not currently maintain any "records" of receipt of a signal. However it may be of interest to the ARHAB community to hear about your receipt so by all means tell us about it on this forum.

You and i have discussed this before and as you know I keep the records for the ARHAB community. I can't think off-hand how I would ask for proof of this kind of "new" record to be kept.

On Apr 13, 2010, at 2:41 PM, natewac@aol. com wrote:

I submitted this the other day without a reply. Hopefully someone will be able to answer this for me.

I'm really new on APRS. My intention is to try to make the record books via APRS Data receipting. If I were to receive APRS data, What exactly do I submit for the records in order for the receiption to be recognized? With Findu.com I would assume all information could be had using this site. How can one tell that I received data directly from the balloon and not by using Findu.com? Does received APRS data have more information than what Findu.com shows? Again I'm new with APRS. So far I have been using a video camera to record the realtime data (just in case) to confirm any receiption. Any help would be appriciated.

N8WAC,Tony

6760. Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 22:10:56 UTC
From: Idle-Tyme
Topic: 6744 Message: 6760
Attachments: 2 described; binary payloads are missing from this source WARC

A question fort ya all.

Of course we all or i think we all have used shroud rings on out round parachutes.

to help the chute open as fast as possible, and to help keep the lines from tangling.

But some of these new fangled chutes, have any of you used them on your balloons. and did you also add a ring to them also?

Joe WB9SBD
Near Space Sciences KB9KHO

6761. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-14 22:15:58 UTC
From: Zack Clobes
Topic: 6744 Message: 6761
Attachments: 2 described; binary payloads are missing from this source WARC

That's all we've ever used, and no we don't use a ring. Ours have all come
from Rocket Man (http://www.the-rocketman.com/recovery.html).

Zack Clobes, W0ZC
Project: Traveler

On Wed, Apr 14, 2010 at 5:10 PM, Idle-Tyme <nss@...> wrote:

> A question fort ya all.
>
> Of course we all or i think we all have used shroud rings on out round
> parachutes.
>
> to help the chute open as fast as possible, and to help keep the lines from
> tangling.
>
> But some of these new fangled chutes, have any of you used them on your
> balloons. and did you also add a ring to them also?
>
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>

6762. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 01:26:43 UTC
From: Mike Manes
Topic: 6744 Message: 6762

The flancy one in the pix doesn't have an apex vent, and thus may oscillate badly at altitude. Unless you can steer one, a 'chute is just a utilitarian tool that's gotta work right every time.
73 de Mike W5VSI

On 4/14/2010 16:10, Idle-Tyme wrote:
> A question fort ya all.
>
> Of course we all or i think we all have used shroud rings on out round
> parachutes.
>
> to help the chute open as fast as possible, and to help keep the lines
> from tangling.
>
> But some of these new fangled chutes, have any of you used them on your
> balloons. and did you also add a ring to them also?
>
>
> Joe WB9SBD
> Near Space Sciences KB9KHO

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6763. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 02:18:49 UTC
From: Zack Clobes
Topic: 6744 Message: 6763

I'm no expert on 'chute aerodynamics, but I believe the Rocket Man stuff is designed so that it spills out the sides. Notice how the main canopy is cut away between the shroud lines.

He also claims that fewer shroud lines means there's less chance of a tangle. That's probably more of a factor on a tumbling rocket, but I can say that we've NEVER had to mess with lines when we're prepping for a launch.

Zack

On Wed, Apr 14, 2010 at 8:26 PM, Mike Manes <mrmanes@...> wrote:

>
>
> The flancy one in the pix doesn't have an apex vent, and thus may oscillate
> badly at altitude. Unless you can steer one, a 'chute is just a utilitarian
> tool that's gotta work right every time.
> 73 de Mike W5VSI
>
>
> On 4/14/2010 16:10, Idle-Tyme wrote:
> > A question fort ya all.
> >
> > Of course we all or i think we all have used shroud rings on out round
> > parachutes.
> >
> > to help the chute open as fast as possible, and to help keep the lines
> > from tangling.
> >
> > But some of these new fangled chutes, have any of you used them on your
> > balloons. and did you also add a ring to them also?
> >
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6764. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:50:13 UTC
From: Mike Manes
Topic: 6744 Message: 6764

Hi Zack,

Well, when the air bubble releases out from under the skirt, it's usually a bit asymmetric, and that jet creates a reaction force that tips the canopy in the opposite direction, thus enhancing the asymmetry until the high pressure bubble under the canopy is depleted enough to let the 'chute re-erect. In doing so, it overshoots a little, thus producing an asymmetric dump on the other side ... and so on.

That's the basic mechanism of parachute oscillation, and it's why apex vents were developed. That mechanism operates more violently at the higher true airspeeds that we encounter coming down from 100K', however. That's evident from the descent foto shown on the Rocketman "customers" web page.

I suspect that the 4-shroud scalloped skirt design does help the 'chute deploy from a packed state in a rocket, and that probably is also effective at altitude as well, thus minimizing the need for a spreader ring.

BTW, I >despise< the spreader ring, since it's the device that's responsible for the 'chute getting "Rubicked" due to a sloppy recovery. That happens when the canopy gets passed thru the spreader ring via some obscure pair of shrouds. Figuring out which pair that was is a real quiz - and guessing wrong just squares the quiz! In a couple of cases, I've had to remove the shrouds from the canopy and reassemble the whole shebang - not how I like to spend a whole afternoon :=(.

Anyway, if the Rocketman 'chute has a good record of reliable deployment at altitude, then the only thing it could use is an apex vent.

73 de Mike W5VSI
CTO EOSS

On 4/14/2010 20:18, Zack Clobes wrote:
>
>
> I'm no expert on 'chute aerodynamics, but I believe the Rocket Man stuff
> is designed so that it spills out the sides. Notice how the main canopy
> is cut away between the shroud lines.
>
> He also claims that fewer shroud lines means there's less chance of a
> tangle. That's probably more of a factor on a tumbling rocket, but I
> can say that we've NEVER had to mess with lines when we're prepping for
> a launch.
>
> Zack
>
> On Wed, Apr 14, 2010 at 8:26 PM, Mike Manes <mrmanes@...

> <mailto:mrmanes@...>> wrote:
>
> The flancy one in the pix doesn't have an apex vent, and thus may
> oscillate
> badly at altitude. Unless you can steer one, a 'chute is just a
> utilitarian
> tool that's gotta work right every time.
> 73 de Mike W5VSI
>
>
>
> On 4/14/2010 16:10, Idle-Tyme wrote:
> > A question fort ya all.
> >
> > Of course we all or i think we all have used shroud rings on out
> round
> > parachutes.
> >
> > to help the chute open as fast as possible, and to help keep the
> lines
> > from tangling.
> >
> > But some of these new fangled chutes, have any of you used them
> on your
> > balloons. and did you also add a ring to them also?
> >
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6765. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 02:50:22 UTC
From: Pete Lilja
Topic: 6744 Message: 6765

I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The SkyAngle chutes are similarly designed as what you have pictured.

Granted I've had only 5 HAB flights ut the 'chutes work just fine. I've had many dozens of high powered rocket flights with these 'chutes and they work well every time.

I like the simplicity. We don't use any ring. Our set-up is simply a line tied from the balloon nozzle to the loop on the SkyAngle 'chute (check to be sure what you purchase does have a loop) and then another line to the payload from the swivel at the bottom of the 'chute suspension lines.

Our most flown SkyAngle chute is a 52" for a 5 lb payload. No problems yet! But we do get rather quick returns after burst.

Pete
KC0GPB

On Wed, Apr 14, 2010 at 5:10 PM, Idle-Tyme <nss@...> wrote:

> A question fort ya all.
>
>

6766. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:10:08 UTC
From: Zack Clobes
Topic: 6744 Message: 6766

I've read about the oscillations that can occur. I can't find it now, but we were originally turned on to this design by a rocket enthusiast, and I'm guessing that he is the one that explained the theory.

Basically, instead of allowing that bubble of high pressure to build up until it spills off the side, the notches up the sides allow a more even venting. I suppose by being triangular shaped, a small amount of pressure can therefore be relieved with a very small amount of tippage...

Not sure if that's marketing BS or what, and I can't find it on their website. It's very possible that the guy that told me about them, read that in a magazine review or something. That was ~10 years ago, and I've slept since then.

One other thing that I can say is that he will sew the loop in the apex, ready for attaching a balloon. Rocket Man's chutes are very good quality - we have 3 and the oldest probably has 8-10 flights on it with zero damage.

Zack

On Wed, Apr 14, 2010 at 9:50 PM, Pete Lilja <plilja@...> wrote:

>
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The SkyAngle
> chutes are similarly designed as what you have pictured.
>
> Granted I've had only 5 HAB flights ut the 'chutes work just fine. I've
> had many dozens of high powered rocket flights with these 'chutes and they
> work well every time.
>
> I like the simplicity. We don't use any ring. Our set-up is simply a line
> tied from the balloon nozzle to the loop on the SkyAngle 'chute (check to be
> sure what you purchase does have a loop) and then another line to the
> payload from the swivel at the bottom of the 'chute suspension lines.
>
> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No problems
> yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>
>
> On Wed, Apr 14, 2010 at 5:10 PM, Idle-Tyme <nss@...> wrote:
>
>> A question fort ya all.

>>
>>
>
>

6767. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:10:57 UTC
From: Idle-Tyme
Topic: 6744 Message: 6767
Attachments: 1 described; binary payloads are missing from this source WARC

what do you call a quick return?

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/14/2010 9:50 PM, Pete Lilja wrote:
>
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The
> SkyAngle chutes are similarly designed as what you have pictured.
>
> Granted I've had only 5 HAB flights ut the 'chutes work just fine.
> I've had many dozens of high powered rocket flights with these 'chutes
> and they work well every time.
>
> I like the simplicity. We don't use any ring. Our set-up is simply a
> line tied from the balloon nozzle to the loop on the SkyAngle 'chute
> (check to be sure what you purchase does have a loop) and then another
> line to the payload from the swivel at the bottom of the 'chute
> suspension lines.
>
> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No
> problems yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>
> On Wed, Apr 14, 2010 at 5:10 PM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
> A question fort ya all.
>
>
>
>
>
>

6768. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:23:07 UTC
From: Idle-Tyme
Topic: 6744 Message: 6768
Attachments: 1 described; binary payloads are missing from this source WARC

I asked several of these guys for some videos of things descending under
the chutes to see what the stabilities are like.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/14/2010 10:10 PM, Zack Clobes wrote:
>
>
> I've read about the oscillations that can occur. I can't find it now,
> but we were originally turned on to this design by a rocket
> enthusiast, and I'm guessing that he is the one that explained the theory.
>
> Basically, instead of allowing that bubble of high pressure to build
> up until it spills off the side, the notches up the sides allow a more
> even venting. I suppose by being triangular shaped, a small amount of
> pressure can therefore be relieved with a very small amount of tippage...
>
>
> Not sure if that's marketing BS or what, and I can't find it on their
> website. It's very possible that the guy that told me about them,
> read that in a magazine review or something. That was ~10 years ago,
> and I've slept since then.
>
> One other thing that I can say is that he will sew the loop in the
> apex, ready for attaching a balloon. Rocket Man's chutes are very
> good quality - we have 3 and the oldest probably has 8-10 flights on
> it with zero damage.
>
> Zack
>
> On Wed, Apr 14, 2010 at 9:50 PM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The
> SkyAngle chutes are similarly designed as what you have pictured.
>
> Granted I've had only 5 HAB flights ut the 'chutes work just
> fine. I've had many dozens of high powered rocket flights with
> these 'chutes and they work well every time.

>
> I like the simplicity. We don't use any ring. Our set-up is
> simply a line tied from the balloon nozzle to the loop on the
> SkyAngle 'chute (check to be sure what you purchase does have a
> loop) and then another line to the payload from the swivel at the
> bottom of the 'chute suspension lines.
>
> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No
> problems yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>
>
>
> On Wed, Apr 14, 2010 at 5:10 PM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
> A question fort ya all.
>
>
>
>
>
>

6769. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:34:40 UTC
From: Idle-Tyme
Topic: 6744 Message: 6769

On 4/14/2010 10:50 PM, Mike Manes wrote:
> Hi Zack,
>
> BTW, I>despise< the spreader ring, since it's the device that's responsible
> for the 'chute getting "Rubicked" due to a sloppy recovery. That happens
> when the canopy gets passed thru the spreader ring via some obscure pair of
> shrouds. Figuring out which pair that was is a real quiz - and guessing
> wrong just squares the quiz! In a couple of cases, I've had to remove the
> shrouds from the canopy and reassemble the whole shebang - not how I like
> to spend a whole afternoon :=(.
>
WOW! I can't even think of how many times that has happened to me too.
I don't understand it either! No matter how carefully you fold the
chute, and wind up the lines, when you put it away for a while and
then take it out to get feady for a flight, you end up cutting all the
lines and start over because it Rubicked! awesome and perfect description!

The 4 line chute even has a ribic in one pair, of the lines and i have
yet to figure it out. and thats even without the schroud ring!

Joe WB9SBD
Near Space Sciences KB9KHO

6770. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:35:01 UTC
From: Mark Conner
Topic: 6744 Message: 6770

The Rocketman and B2 chutes do look pretty simple for launch prep. Prices are reasonable too. My primary chute is about 10 years old and after 30-some flights is about ready for a well-deserved retirement.

I agree with Zack that the notches in the skirts look like they would mitigate the oscillation. The proof would be in the flying - does anyone have any video from a descent showing how stable they are?

73 de Mark N9XTN

On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...> wrote:

>
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The SkyAngle
> chutes are similarly designed as what you have pictured.
>
> Granted I've had only 5 HAB flights ut the 'chutes work just fine. I've
> had many dozens of high powered rocket flights with these 'chutes and they
> work well every time.
>
> I like the simplicity. We don't use any ring. Our set-up is simply a line
> tied from the balloon nozzle to the loop on the SkyAngle 'chute (check to be
> sure what you purchase does have a loop) and then another line to the
> payload from the swivel at the bottom of the 'chute suspension lines.
>
> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No problems
> yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>

6771. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 03:48:21 UTC
From: L. Paul Verhage
Topic: 6744 Message: 6771

My flight for the Adler Planetarium in August 2006 used a Rocketman. The 'chute pulsed during descent.

Here's the link to the page and video.
http://nearsys.com/arhab/flightdata/2006/g/index.htm

Paul

On Wed, Apr 14, 2010 at 10:35 PM, Mark Conner <mconner1@...> wrote:

>
>
> The Rocketman and B2 chutes do look pretty simple for launch prep. Prices
> are reasonable too. My primary chute is about 10 years old and after
> 30-some flights is about ready for a well-deserved retirement.
>
> I agree with Zack that the notches in the skirts look like they would
> mitigate the oscillation. The proof would be in the flying - does anyone
> have any video from a descent showing how stable they are?
>
> 73 de Mark N9XTN
>
>
> On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The
>> SkyAngle chutes are similarly designed as what you have pictured.
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>> Granted I've had only 5 HAB flights ut the 'chutes work just fine. I've
>> had many dozens of high powered rocket flights with these 'chutes and they
>> work well every time.
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>> line tied from the balloon nozzle to the loop on the SkyAngle 'chute (check
>> to be sure what you purchase does have a loop) and then another line to the
>> payload from the swivel at the bottom of the 'chute suspension lines.
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>> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No problems
>> yet! But we do get rather quick returns after burst.
>>
>> Pete
>> KC0GPB
>>
>

>
>
>
>

--
Onwards and Upwards,
Paul

6772. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 04:10:37 UTC
From: Idle-Tyme
Topic: 6744 Message: 6772
Attachments: 1 described; binary payloads are missing from this source WARC

PERFECT!

That is exactly what I was looking for. and it easily made the decision
for me.

Shroud ring still, and added top vent holes.
I think the spilling in this chute was the oscillation seen.

Heres another thought i was thinking of. because the PBC seems soo
incredibly violent especially right at burst I wonder if the whole
system is getting yanked really hard at the time of explosion?

I wonder if the support line between the chute and balloon instead of
rope, if it was like latex sugical tubing. to act like a shock
absorber. I wonder if it would bake any diffference?

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/14/2010 10:48 PM, L. Paul Verhage wrote:
>
>
> My flight for the Adler Planetarium in August 2006 used a Rocketman.
> The 'chute pulsed during descent.
> Here's the link to the page and video.
> http://nearsys.com/arhab/flightdata/2006/g/index.htm
> Paul
>
> On Wed, Apr 14, 2010 at 10:35 PM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
>
>
> The Rocketman and B2 chutes do look pretty simple for launch
> prep. Prices are reasonable too. My primary chute is about 10
> years old and after 30-some flights is about ready for a
> well-deserved retirement.
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> I agree with Zack that the notches in the skirts look like they
> would mitigate the oscillation. The proof would be in the flying
> - does anyone have any video from a descent showing how stable

> they are?
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> On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...
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>
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/
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> Granted I've had only 5 HAB flights ut the 'chutes work just
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> with these 'chutes and they work well every time.
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> simply a line tied from the balloon nozzle to the loop on the
> SkyAngle 'chute (check to be sure what you purchase does have
> a loop) and then another line to the payload from the swivel
> at the bottom of the 'chute suspension lines.
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> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No
> problems yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>
>
>
>
>
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>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6773. Re: Chute line tangles

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 12:31:42 UTC
From: BASE
Topic: 6744 Message: 6773
Attachments: 1 described; binary payloads are missing from this source WARC

We avoid any chute line tangle problems with two zip ties. After recovery we make sure that the lines are not tangled. One zip tie is placed around all 8 lines at the chute and a second pulls the lines taut above the spreader ring. Only drawback would be if you forget to cut the ties before releasing on the next launch.
We have used chutes from spherachutes without any problems.
Howard

--- On Thu, 4/15/10, Idle-Tyme <nss@...> wrote:

From: Idle-Tyme <nss@...>
Subject: Re: [GPSL] Chutes.
To: GPSL@yahoogroups.com
Cc: "L. Paul Verhage" <nearsys@...>
Date: Thursday, April 15, 2010, 12:10 AM

PERFECT!

That is exactly what I was looking for. and it easily made the
decision for me.

Shroud ring still, and added top vent holes.

I think the spilling in this chute was the oscillation seen.

Heres another thought i was thinking of. because the PBC seems soo
incredibly violent especially right at burst I wonder if the whole
system is getting yanked really hard at the time of explosion?

I wonder if the support line between the chute and balloon instead of
rope, if it was like latex sugical tubing. to act like a shock
absorber. I wonder if it would bake any diffference?

Joe WB9SBD

Near Space Sciences KB9KHO

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 4/14/2010 10:48 PM, L. Paul Verhage wrote:

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Rocketman. The 'chute pulsed during descent.

Here's the link to the page and video.
http://nearsys.com/arhab/flightdata/2006/g/index.htm

Paul

On Wed, Apr 14, 2010 at 10:35 PM, Mark
Conner <mconner1@gmail.com>
wrote:

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Prices are reasonable too. My primary chute is about 10 years old and
after 30-some flights is about ready for a well-deserved retirement.

I agree with Zack that the notches in the skirts look like they would
mitigate the oscillation. The proof would be in the flying - does
anyone have any video from a descent showing how stable they are?

73 de Mark N9XTN

On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...> wrote:

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The SkyAngle chutes are similarly designed as what you have pictured.

Granted I've had only 5 HAB flights ut the 'chutes work just fine.
I've had many dozens of high powered rocket flights with these 'chutes
and they work well every time.

I like the simplicity. We don't use any ring. Our set-up is simply a
line tied from the balloon nozzle to the loop on the SkyAngle 'chute
(check to be sure what you purchase does have a loop) and then another
line to the payload from the swivel at the bottom of the 'chute
suspension lines.

Our most flown SkyAngle chute is a 52" for a 5 lb payload. No problems
yet! But we do get rather quick returns after burst.

Pete

KC0GPB

--

Onwards and Upwards,

Paul

6774. one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-15 23:30:03 UTC
From: natewac@aol.com
Topic: 6774 Message: 6774

Bill,

Do you have an idea what time Sunday your balloon may launch?

6775. Re: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 01:34:36 UTC
From: Alan Sieg WB5RMG
Topic: 6774 Message: 6775

> Do you have an idea what time Sunday your balloon may launch?

I'll try to fill-in, but Bill may have a better time frame.
Starting prep at 9am CDT, the first launch not likely before 9:30,
but hopefully no later than 10am. Half hour to 45 min to get the next
one ready, and again the next one. I'm not sure which flight tho will
have the Domino Tx... If you can follow the streaming video (assuming
that it will be active) that might be the best way to find out, real-time.
The live stream is found with http://batc.tv - click on 'Members',
then look for wb8elk near the bottom of the list. If it is active
you should have live video and audio, and an interactive keyboard chat.

The dl-fldigi is a custom binary, not the same as the one Dave - w1hkj
distributes via his web site. This is a simple stand-alone install,
and can be loaded onto any internet-connected PC. I have seen this
Domino work well just holding a handheld radio near the microphone
on a laptop.. very robust decoding under minimal signal conditions.

Quick instructions I got last week from M6JCX: (James Coxon)
- http://dl-fldigi.googlecode.com/files/dlfldigi-3.11.4r85-vista.zip
(the vista version is also for XP)
- Save to desktop even, run it, then go "Configure" menu -> Operator,
fill in your call sign and some details and then go to the DL Conf tab
and select bill's payload in the drop down box ...
- the final thing to check is in the misc tab of the configuration
in text capture 'enable detection and extraction' is to be ticked ...
- a good guide is here: http://projecthorus.org/?page_id=336

Once you hear telemetry and see WB8ELK telemetry string on your screen,
it should also be showing up on http://spacenear.us/tracker

I don't yet know if I will be at home, at church, or at the launch site..
Sometimes I don't receive my daily instructions until the sun comes up.
Enjoy /;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6776. NASA & ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 02:02:40 UTC
From: Alan Sieg WB5RMG
Topic: 6774 Message: 6776

RT: @wb5rmg: NASA and Amateur Radio High Altitude Balloonacy
http://www.nasa.gov/centers/glenn/technology/explorers_balloons.html
#arhab #hamr

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6777. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 04:49:34 UTC
From: Mike Manes
Topic: 6744 Message: 6777

The trick to a Rubix-free recovery is to cinch up the shroud lines nice
and tight at the skirt, midway down towards the ring, right at the ring
and below the ring so the ring looks like a bike wheel. Then roll up
the 'chute and shrouds nice and tight like a bedroll that yer gonna
carry it on a 20-mile hike. It's stored and transported in a big
ol' leaf bag to keep it dry, clean and intact.

I use plastic "bread ties" intended for gardening use, and stow 'em on
the spreader ring during prelaunch prep for the T&R team to use on
recovery. Seems to work OK.

73 de Mike W5VSI

On 4/14/2010 21:34, Idle-Tyme wrote:
> On 4/14/2010 10:50 PM, Mike Manes wrote:
>> Hi Zack,
>>
>> BTW, I>despise< the spreader ring, since it's the device that's
>> responsible
>> for the 'chute getting "Rubicked" due to a sloppy recovery. That happens
>> when the canopy gets passed thru the spreader ring via some obscure
>> pair of
>> shrouds. Figuring out which pair that was is a real quiz - and guessing
>> wrong just squares the quiz! In a couple of cases, I've had to remove the
>> shrouds from the canopy and reassemble the whole shebang - not how I like
>> to spend a whole afternoon :=(.
>>
> WOW! I can't even think of how many times that has happened to me too. I
> don't understand it either! No matter how carefully you fold the chute,
> and wind up the lines, when you put it away for a while and then take it
> out to get feady for a flight, you end up cutting all the lines and
> start over because it Rubicked! awesome and perfect description!
>
> The 4 line chute even has a ribic in one pair, of the lines and i have
> yet to figure it out. and thats even without the schroud ring!
>
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6778. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 04:51:50 UTC
From: Mike Manes
Topic: 6744 Message: 6778

Shux - it's just getting broken in at 30 flights. We have one of the original 5 ft 'chutes still in use for exempt flights that prolly has 80 under its belt.

On 4/14/2010 21:35, Mark Conner wrote:
>
>
> The Rocketman and B2 chutes do look pretty simple for launch prep.
> Prices are reasonable too. My primary chute is about 10 years old and
> after 30-some flights is about ready for a well-deserved retirement.
>
> I agree with Zack that the notches in the skirts look like they would
> mitigate the oscillation. The proof would be in the flying - does
> anyone have any video from a descent showing how stable they are?
>
> 73 de Mark N9XTN
>
> On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
>
>
> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/ The
> SkyAngle chutes are similarly designed as what you have pictured.
>
> Granted I've had only 5 HAB flights ut the 'chutes work just fine.
> I've had many dozens of high powered rocket flights with these
> 'chutes and they work well every time.
>
> I like the simplicity. We don't use any ring. Our set-up is simply
> a line tied from the balloon nozzle to the loop on the SkyAngle
> 'chute (check to be sure what you purchase does have a loop) and
> then another line to the payload from the swivel at the bottom of
> the 'chute suspension lines.
>
> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No
> problems yet! But we do get rather quick returns after burst.
>
> Pete
> KC0GPB
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6779. Re: [GPSL] Chutes.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 04:54:34 UTC
From: Mike Manes
Topic: 6744 Message: 6779

Getting shut of the shards ASAP after burst is probably the most
effective measure against PBC. Then it's up to the 'chute and
payload string dynamics. Best to put the "plumb bob" payload at
the bottom.

On 4/14/2010 22:10, Idle-Tyme wrote:
> PERFECT!
>
> That is exactly what I was looking for. and it easily made the decision
> for me.
>
> Shroud ring still, and added top vent holes.
> I think the spilling in this chute was the oscillation seen.
>
> Heres another thought i was thinking of. because the PBC seems soo
> incredibly violent especially right at burst I wonder if the whole
> system is getting yanked really hard at the time of explosion?
>
> I wonder if the support line between the chute and balloon instead of
> rope, if it was like latex sugical tubing. to act like a shock absorber.
> I wonder if it would bake any diffference?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/14/2010 10:48 PM, L. Paul Verhage wrote:
>> My flight for the Adler Planetarium in August 2006 used a Rocketman.
>> The 'chute pulsed during descent.
>> Here's the link to the page and video.
>> http://nearsys.com/arhab/flightdata/2006/g/index.htm
>> Paul
>>
>> On Wed, Apr 14, 2010 at 10:35 PM, Mark Conner <mconner1@...
>> <mailto:mconner1@...>> wrote:
>>
>>
>>
>> The Rocketman and B2 chutes do look pretty simple for launch prep.
>> Prices are reasonable too. My primary chute is about 10 years old
>> and after 30-some flights is about ready for a well-deserved

>> retirement.
>>
>> I agree with Zack that the notches in the skirts look like they
>> would mitigate the oscillation. The proof would be in the flying -
>> does anyone have any video from a descent showing how stable they are?
>>
>> 73 de Mark N9XTN
>>
>>
>> On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...
>> <mailto:plilja@...>> wrote:
>>
>>
>>
>> I use the SkyAngle 'chutes by B2. http://www.b2rocketry.com/
>> The SkyAngle chutes are similarly designed as what you have
>> pictured.
>>
>> Granted I've had only 5 HAB flights ut the 'chutes work just
>> fine. I've had many dozens of high powered rocket flights with
>> these 'chutes and they work well every time.
>>
>> I like the simplicity. We don't use any ring. Our set-up is
>> simply a line tied from the balloon nozzle to the loop on the
>> SkyAngle 'chute (check to be sure what you purchase does have
>> a loop) and then another line to the payload from the swivel
>> at the bottom of the 'chute suspension lines.
>>
>> Our most flown SkyAngle chute is a 52" for a 5 lb payload. No
>> problems yet! But we do get rather quick returns after burst.
>>
>> Pete
>> KC0GPB
>>
>>
>>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6780. Re: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 04:33:35 UTC
From: wb8elk@aol.com
Topic: 6774 Message: 6780

Hi Tony,

Three balloons will be going up starting around 9:30 am CDT on Sunday...not sure yet which of the three balloons will carry the 144.34 MHz FM DominoEX22 transmitter.

- Bill WB8ELK

I will be streaming video as before: www.batc.tv select "Members Streams" then select "WB8ELK" and hit "View Stream"

-----Original Message-----
From: natewac@...
To: GPSL@yahoogroups.com
Sent: Thu, Apr 15, 2010 6:30 pm
Subject: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Bill,

Do you have an idea what time Sunday your balloon may launch?

Bill,

Do you have an idea what time Sunday your balloon may launch?

6781. Re: [GPSL] NASA & ARHAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 04:48:54 UTC
From: wb8elk@aol.com
Topic: 6774 Message: 6781

Hi Alan,

NASA Glenn is doing a BalloonSat school competition in late May...I plan to be there...Dave Snyder KB8PVR of that group is a member here on the GPSL list and will be talking at the BalloonSat Forum at the Dayton Hamvention about their program at NASA Glenn.

BTW...the BalloonSat Forum will be held Friday May 14th between 12:15 pm to 2:15 pm EDT at the Dayton Hamvention....we have quite a lineup of the early pioneers of ARHAB giving talks (a combined total of 100 years of ARHAB flights between us)....I will post the forum speakers list in the next email.

We plan to launch a balloon from the flea market at the Hamvention right after the Forum.

- Bill WB8ELK

-----Original Message-----
From: Alan Sieg WB5RMG <wb5rmg@somenet.net>
To: GPSL@yahoogroups.com; balloonatics@yahoogroups.com
Sent: Thu, Apr 15, 2010 9:02 pm
Subject: [GPSL] NASA & ARHAB

RT: @wb5rmg: NASA and Amateur Radio High Altitude Balloonacy
http://www.nasa.gov/centers/glenn/technology/explorers_balloons.html
#arhab #hamr

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6782. Re: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 06:33:05 UTC
From: James Coxon
Topic: 6774 Message: 6782

Hey all,
There is another good guide to setting up dl-fldigi on the ukhas wiki (
http://ukhas.org.uk/guides:tracking_guide) - some of the radio bit might be
a little basic but the rest is good!

Also if you add in your receiving station's latitude and longitude in dd.ddd
using + or - instead of NSEW (just a rough position) it'll plot your
position on to the map, would be good to get some feedback about at what
altitude you start hearing the balloon and whether the horizon circle is
appropriate (you'll see on the map what i mean!).

If all goes well the data received by dl-fldigi will be plotted onto
http://spacenear.us/tracker . Finally there is often conversation on the
#highaltitude channel on irc.freenode.net

Any questions get in touch.

James
M6JCX
http://www.pegasushabproject.org.uk

p.s. there is a UK balloon launch today at 09:00 UTC from Northern Ireland
which will be shown on the spacenear.us page - hopefully with some images as
well!

On 16 April 2010 05:33, <wb8elk@...> wrote:

>
>
> Hi Tony,
>
> Three balloons will be going up starting around 9:30 am CDT on
> Sunday...not sure yet which of the three balloons will carry the 144.34 MHz
> FM DominoEX22 transmitter.
>
> - Bill WB8ELK
>
> I will be streaming video as before: www.batc.tv select "Members
> Streams" then select "WB8ELK" and hit "View Stream"
>
>
>
>
>
>
>
> -----Original Message-----
> From: natewac@...

> To: GPSL@yahoogroups.com
> Sent: Thu, Apr 15, 2010 6:30 pm
> Subject: [GPSL] one going up this Sunday morning on 144.34/WB8ELK
>
>
>
> Bill,
>
> Do you have an idea what time Sunday your balloon may launch?
>
>

6783. Re: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 08:05:17 UTC
From: natewac@aol.com
Topic: 6774 Message: 6783

Thanks Al, I'll be listening.

6784. Re: [GPSL] one going up this Sunday morning on 144.34/WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 13:48:11 UTC
From: Alan Sieg WB5RMG
Topic: 6774 Message: 6784

I hadn't thought about the Lat/Lon entry.
On my laptop, I had previously installed fldigi, and when I started up
the dl-fldigi version - the callsign and other stuff was already known . . .

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

> Hey all,
> There is another good guide to setting up dl-fldigi on the ukhas wiki (
> http://ukhas.org.uk/guides:tracking_guide) - some of the radio bit might be
> a little basic but the rest is good!
>
> Also if you add in your receiving station's latitude and longitude in dd.ddd
> using + or - instead of NSEW (just a rough position) it'll plot your
> position on to the map, would be good to get some feedback about at what
> altitude you start hearing the balloon and whether the horizon circle is
> appropriate (you'll see on the map what i mean!).
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> If all goes well the data received by dl-fldigi will be plotted onto
> http://spacenear.us/tracker . Finally there is often conversation on the
> #highaltitude channel on irc.freenode.net
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> Any questions get in touch.
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> James
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> p.s. there is a UK balloon launch today at 09:00 UTC from Northern Ireland
> which will be shown on the spacenear.us page - hopefully with some images as
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> On 16 April 2010 05:33, <wb8elk@...> wrote:
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>> Sunday...not sure yet which of the three balloons will carry the 144.34 MHz
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>>
>> - Bill WB8ELK
>>
>> I will be streaming video as before: www.batc.tv select "Members
>> Streams" then select "WB8ELK" and hit "View Stream"
>>
>>
>> -----Original Message-----
>> From: natewac@...
>> To: GPSL@yahoogroups.com
>> Sent: Thu, Apr 15, 2010 6:30 pm
>> Subject: [GPSL] one going up this Sunday morning on 144.34/WB8ELK
>>
>> Bill,
>> Do you have an idea what time Sunday your balloon may launch?

6785. Re: [GPSL] Re: Chute line tangles

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-16 20:58:12 UTC
From: Mike Manes
Topic: 6744 Message: 6785

Plastic-coated wire ties also serve this duty for us, and they don't risk
cutting shroud lines on removal. During launch prep, we store 'em on the
spreader ring for use by the recovery team. And they're cheap and reusable.
73 de Mike W5VSI

On 4/15/2010 06:31, BASE wrote:
> We avoid any chute line tangle problems with two zip ties. After
> recovery we make sure that the lines are not tangled. One zip tie is
> placed around all 8 lines at the chute and a second pulls the lines taut
> above the spreader ring. Only drawback would be if you forget to cut the
> ties before releasing on the next launch.
>
> We have used chutes from spherachutes without any problems.
>
> Howard
>
> --- On *Thu, 4/15/10, Idle-Tyme /<nss@...>/* wrote:
>
>
> From: Idle-Tyme <nss@...>
> Subject: Re: [GPSL] Chutes.
> To: GPSL@yahoogroups.com
> Cc: "L. Paul Verhage" <nearsys@...>
> Date: Thursday, April 15, 2010, 12:10 AM
>
> PERFECT!
>
> That is exactly what I was looking for. and it easily made the
> decision for me.
>
> Shroud ring still, and added top vent holes.
> I think the spilling in this chute was the oscillation seen.
>
> Heres another thought i was thinking of. because the PBC seems soo
> incredibly violent especially right at burst I wonder if the whole
> system is getting yanked really hard at the time of explosion?
>
> I wonder if the support line between the chute and balloon instead
> of rope, if it was like latex sugical tubing. to act like a shock
> absorber. I wonder if it would bake any diffference?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock

> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/14/2010 10:48 PM, L. Paul Verhage wrote:
>> My flight for the Adler Planetarium in August 2006 used a
>> Rocketman. The 'chute pulsed during descent.
>> Here's the link to the page and video.
>> http://nearsys.com/arhab/flightdata/2006/g/index.htm
>> Paul
>>
>> On Wed, Apr 14, 2010 at 10:35 PM, Mark Conner <mconner1@...
>> </mc/compose?to=mconner1@...>> wrote:
>>
>>
>>
>> The Rocketman and B2 chutes do look pretty simple for launch
>> prep. Prices are reasonable too. My primary chute is about 10
>> years old and after 30-some flights is about ready for a
>> well-deserved retirement.
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>> I agree with Zack that the notches in the skirts look like
>> they would mitigate the oscillation. The proof would be in the
>> flying - does anyone have any video from a descent showing how
>> stable they are?
>>
>> 73 de Mark N9XTN
>>
>>
>> On Wed, Apr 14, 2010 at 21:50, Pete Lilja <plilja@...
>> </mc/compose?to=plilja@...>> wrote:
>>
>>
>>
>> I use the SkyAngle 'chutes by B2.
>> http://www.b2rocketry.com/ The SkyAngle chutes are
>> similarly designed as what you have pictured.
>>
>> Granted I've had only 5 HAB flights ut the 'chutes work
>> just fine. I've had many dozens of high powered rocket
>> flights with these 'chutes and they work well every time.
>>
>> I like the simplicity. We don't use any ring. Our set-up
>> is simply a line tied from the balloon nozzle to the loop
>> on the SkyAngle 'chute (check to be sure what you purchase
>> does have a loop) and then another line to the payload
>> from the swivel at the bottom of the 'chute suspension lines.
>>
>> Our most flown SkyAngle chute is a 52" for a 5 lb payload.
>> No problems yet! But we do get rather quick returns after

>> burst.
>>
>> Pete
>> KC0GPB
>>
>>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6786. UAH Balloonsats to fly Sunday morning at 9 am CDT from Huntsville AL with streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 06:38:46 UTC
From: wb8elk@aol.com
Topic: 6786 Message: 6786

Three Balloons:

144.39:

Balloon 1: UAH-1 and WB8ELK-10
Balloon 2: UAH-2 and WB8ELK-11
Balloon 3: UAH-3

Also on Balloon 3: WB8ELK on 144.34 DominoEX22 and 300 baud 8-bit ASCII RTTY

Predicted landing site is 2 miles SW of Henagar, AL

Streaming video of Launch: http://www.batc.tv select "Members Streams" then select "WB8ELK" and hit "View Stream"

After the launches we will also be attempting a Moonbounce contact with Arecibo dish in the afternoon and may be streaming the video of that if my netbook's batteries hold up.

6787. HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 15:24:09 UTC
From: natewac@aol.com
Topic: 6787 Message: 6787

I was wondering if anyone has ever thought about communicating on an HF band while listening for the balloons while they're being launched and tracked? Kind of like an HF balloon net. Any thoughts?

N8WAC,Tony

6788. Re: [GPSL] HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 15:26:56 UTC
From: Zack Clobes
Topic: 6787 Message: 6788

We've used HF a few times, and it works on 40m once you get past the skip zone. However, with everything else going on during the chase, it's hard to listen to the noisy HF signals. I often found that I'd turn down the volume on the HF rig to make a VHF call, and forgetting to turn it back up.

Zack Clobes, W0ZC
Project: Traveler

On Sun, Apr 18, 2010 at 10:24 AM, <natewac@...> wrote:

>
>
> I was wondering if anyone has ever thought about communicating on an HF
> band while listening for the balloons while they're being launched and
> tracked? Kind of like an HF balloon net. Any thoughts?
>
> N8WAC,Tony
>
>

6789. Re: [GPSL] HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 15:29:40 UTC
From: natewac@aol.com
Topic: 6787 Message: 6789

My thinking was not for those involved in the chase or launch but or those who are listening for the balloon itself. It was just a thought. Thanks for the reply.

N8WAC

6790. Re: [GPSL] HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 15:38:22 UTC
From: Idle-Tyme
Topic: 6787 Message: 6790
Attachments: 1 described; binary payloads are missing from this source WARC

That's how it all was done before the days of the internet.

We had a weekly HF net where we would announce shed's of up coming flights, and such. As well a discuss playloads design. equipment etc. but then the net was pretty small too. maybe only what 6 groups were doing flights in those days? I ran the net. And it was a blast.

Then on flight days many many groups had HF stations at the launch sites so the rest of the world not local to the flight could at least know what's happening. And if the payload should have any HF trannies on board (and many did in those days) they would relay into the HF net what they may be hearing on HF.

But once the internet came to be. most of tye HF stuff faded away.

Joe WB9SB
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 10:24 AM, natewac@... wrote:
>
>
> I was wondering if anyone has ever thought about communicating on an
> HF band while listening for the balloons while they're being launched
> and tracked? Kind of like an HF balloon net. Any thoughts?
> N8WAC,Tony
>
>
>

6791. Re: [GPSL] HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 15:38:04 UTC
From: Zack Clobes
Topic: 6787 Message: 6791

I know that there has been some discussion regarding our balloons on various nets that we (the chase team) haven't been directly involved in. I'm not sure what's being said on that (obviously), but I wouldn't think it would be too exciting since there wouldn't be any live updates. Plus, if there were a problem or change in schedule, they wouldn't necessarily know about it.

It seems like Pete (up in Salina) has used HF nets on a lot of his chases. Not totally sure to what capacity.

Zack

On Sun, Apr 18, 2010 at 10:29 AM, <natewac@...> wrote:

>
>
> My thinking was not for those involved in the chase or launch but or
> those who are listening for the balloon itself. It was just a thought.
> Thanks for the reply.
>
> N8WAC
>
>

6792. Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 19:22:04 UTC
From: Idle-Tyme
Topic: 6792 Message: 6792
Attachments: 1 described; binary payloads are missing from this source WARC

These guys,

http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx

What are the symptoms of them being abused?

Heres the history.

I have a set of four in series that I made into a pack. From the factory they had a charge on them the level? who knows. But i tested them on a microtrac 300 and it lasted 11 hours when it got to the 12 volt suggested cut off point.

Ok, I don't have a real charger for them but i trickled them. with a yaesu HT charger that hs a output of 15.2 vdc and maz 200 miliamps.

it took a long time to get the pack back up to that level. I guess ideal max is 16.8 for this pack they say finish voltage shopuld be 4.2 per cell. But i wasn't able to get it that high.

But ran a second test with them floating at the 15.2 level. charge.

after coming off the charge they settled down to about 14.8 or so. They were stone cold throughout the charge and it took like two days to level off.

Ok, it ran again for about 11 hours or so, and it was still like at 12.5 volts. but wanted to see how long it takes now to get again to the 12 volt level. I leave it running, and about a hour later look at the UI View and last beacon was 20 minutes ago! YIKES! I go outside and check it. WOW when they say min voltage is 12 they mean it. it must fall like a rock after then. for it was all the way down to 3.8 volts!

I shut it down and started it on the yaesu charger again. it comes up the same as it did before except it will NOT go above 12 volts now. and once it got to the 12 volt point now the pack is warm to the touch. it never got warm the first time, but now refuses to go above12 volts and the pack is warm.

thoughts?

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com

http://www.idle-tyme.com

6793. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 19:44:32 UTC
From: Mark Conner
Topic: 6792 Message: 6793
Attachments: 1 described; binary payloads are missing from this source WARC

The deep discharge may well have killed one or more cells. Getting warmer
than normal and not taking a charge is a bad sign.

There is a steep falloff in the voltage as the cells hit the end of their
capacity. There's not much capacity left under 3.0V/cell. I try not to let
mine run under 3.3V/cell.

I have run Li-ion packs down to 2.0V/cell accidentally and was able to
continue using them. But I'm very cautious when recharging them after such
an event - I watch the temp and voltage very carefully when initially
charging.

LiPo packs are even more intolerant - I killed one pack after the first deep
discharge and the pack started swelling and heading when I tried to charge
it. Left it outside on the middle of a concrete pad for a couple of days
just in case it decided to burst or something worse.

73 de Mark N9XTN

On Sun, Apr 18, 2010 at 14:22, Idle-Tyme <nss@...> wrote:

> These guys,
>
>
> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
>
> What are the symptoms of them being abused?
>
> Heres the history.
>
> I have a set of four in series that I made into a pack. From the factory
> they had a charge on them the level? who knows. But i tested them on a
> microtrac 300 and it lasted 11 hours when it got to the 12 volt suggested
> cut off point.
>
> Ok, I don't have a real charger for them but i trickled them. with a yaesu
> HT charger that hs a output of 15.2 vdc and maz 200 miliamps.
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> it took a long time to get the pack back up to that level. I guess ideal
> max is 16.8 for this pack they say finish voltage shopuld be 4.2 per cell.
> But i wasn't able to get it that high.
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> But ran a second test with them floating at the 15.2 level. charge.
>
> after coming off the charge they settled down to about 14.8 or so. They

> were stone cold throughout the charge and it took like two days to level
> off.
>
> Ok, it ran again for about 11 hours or so, and it was still like at 12.5
> volts. but wanted to see how long it takes now to get again to the 12 volt
> level. I leave it running, and about a hour later look at the UI View and
> last beacon was 20 minutes ago! YIKES! I go outside and check it. WOW
> when they say min voltage is 12 they mean it. it must fall like a rock
> after then. for it was all the way down to 3.8 volts!
>
> I shut it down and started it on the yaesu charger again. it comes up the
> same as it did before except it will NOT go above 12 volts now. and once it
> got to the 12 volt point now the pack is warm to the touch. it never got
> warm the first time, but now refuses to go above12 volts and the pack is
> warm.
>
> thoughts?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6794. Shuttle reentry over CONUS tomorrow

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 20:02:41 UTC
From: Mark Conner
Topic: 6794 Message: 6794

http://spaceweather.com/

If all goes as planned, the shuttle will pass over the central US on its way to KSC early tomorrow morning. Ground track is approximately eastern MT/Sioux City IA/St Louis MO/Memphis TN/Tupelo MS/Columbus GA/KSC. Landing is at 1248 UTC and the shuttle will be over MT at about 1210 UTC.

Those near the ground track may hear the double sonic boom.

If it's delayed one orbit, the track would shift south somewhat. Bill WB8ELK in Huntsville will have a good seat for either opportunity.

73 de Mark N9XTN

6795. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 20:06:23 UTC
From: Idle-Tyme
Topic: 6792 Message: 6795
Attachments: 2 described; binary payloads are missing from this source WARC

Bummer!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 2:44 PM, Mark Conner wrote:
>
>
> The deep discharge may well have killed one or more cells. Getting
> warmer than normal and not taking a charge is a bad sign.
>
> There is a steep falloff in the voltage as the cells hit the end of
> their capacity. There's not much capacity left under 3.0V/cell. I
> try not to let mine run under 3.3V/cell.
>
> I have run Li-ion packs down to 2.0V/cell accidentally and was able to
> continue using them. But I'm very cautious when recharging them after
> such an event - I watch the temp and voltage very carefully when
> initially charging.
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> LiPo packs are even more intolerant - I killed one pack after the
> first deep discharge and the pack started swelling and heading when I
> tried to charge it. Left it outside on the middle of a concrete pad
> for a couple of days just in case it decided to burst or something worse.
>
> 73 de Mark N9XTN
>
> On Sun, Apr 18, 2010 at 14:22, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
> These guys,
>
> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
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> What are the symptoms of them being abused?
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> Heres the history.
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> tested them on a microtrac 300 and it lasted 11 hours when it got
> to the 12 volt suggested cut off point.

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> Ok, I don't have a real charger for them but i trickled them.
> with a yaesu HT charger that hs a output of 15.2 vdc and maz 200
> miliamps.
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> it took a long time to get the pack back up to that level. I
> guess ideal max is 16.8 for this pack they say finish voltage
> shopuld be 4.2 per cell. But i wasn't able to get it that high.
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> But ran a second test with them floating at the 15.2 level. charge.
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> so. They were stone cold throughout the charge and it took like
> two days to level off.
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> Ok, it ran again for about 11 hours or so, and it was still like
> at 12.5 volts. but wanted to see how long it takes now to get
> again to the 12 volt level. I leave it running, and about a hour
> later look at the UI View and last beacon was 20 minutes ago!
> YIKES! I go outside and check it. WOW when they say min voltage
> is 12 they mean it. it must fall like a rock after then. for it
> was all the way down to 3.8 volts!
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> I shut it down and started it on the yaesu charger again. it
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> volts now. and once it got to the 12 volt point now the pack is
> warm to the touch. it never got warm the first time, but now
> refuses to go above12 volts and the pack is warm.
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> thoughts?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com
>
>
>
>
>

6796. Re: [GPSL] Shuttle reentry over CONUS tomorrow

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 20:09:29 UTC
From: Idle-Tyme
Topic: 6794 Message: 6796
Attachments: 1 described; binary payloads are missing from this source WARC

any idea what altitude it's at at each of these locations?

i'm in EN43, southwest Wisconsin, I wonder if i may be able to see
this as it's passing by over Iowa? hmmmm?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 3:02 PM, Mark Conner wrote:
> http://spaceweather.com/
>
> If all goes as planned, the shuttle will pass over the central US on
> its way to KSC early tomorrow morning. Ground track is approximately
> eastern MT/Sioux City IA/St Louis MO/Memphis TN/Tupelo MS/Columbus
> GA/KSC. Landing is at 1248 UTC and the shuttle will be over MT at
> about 1210 UTC.
>
> Those near the ground track may hear the double sonic boom.
>
> If it's delayed one orbit, the track would shift south somewhat. Bill
> WB8ELK in Huntsville will have a good seat for either opportunity.
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
>
>

6797. Re: [GPSL] HF balloon net

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:08:34 UTC
From: wb8elk@aol.com
Topic: 6787 Message: 6797

Hi Tony....almost all of our early flights had an HF net either on 7.250 MHz or on 75m....but the 40m net seemed to work the best. The trick is to find someone that will dedicate to running the net.

- Bill WB8ELK

-----Original Message-----
From: natewac@...
To: GPSL@yahoogroups.com
Sent: Sun, Apr 18, 2010 10:24 am
Subject: [GPSL] HF balloon net

I was wondering if anyone has ever thought about communicating on an HF band while listening for the balloons while they're being launched and tracked? Kind of like an HF balloon net. Any thoughts?

N8WAC,Tony

I was wondering if anyone has ever thought about communicating on an HF band while listening for the balloons while they're being launched and tracked? Kind of like an HF balloon net. Any thoughts?

N8WAC,Tony

6798. Re: [GPSL] Shuttle reentry over CONUS tomorrow

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:17:21 UTC
From: wb8elk@aol.com
Topic: 6794 Message: 6798

The last one that went over our area a few years ago passed over Chattanooga, TN and along the AL/GA line about 80 miles away....I could see it zip from one horizon to the other in under 30 seconds going about MACH 15 and 230 k feet high....boy was it fast....it was right at sunset with the Sun behind my back so it stood out great....about 7.5 minutes later I heard a weak but quite recognizable double sonic boom.

Those of you to the NW of me will get quite a show as it blazes in just prior to sunrise.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Sun, Apr 18, 2010 3:02 pm
Subject: [GPSL] Shuttle reentry over CONUS tomorrow

http://spaceweather.com/

If all goes as planned, the shuttle will pass over the central US on its way to KSC early tomorrow morning. Ground track is approximately eastern MT/Sioux City IA/St Louis MO/Memphis TN/Tupelo MS/Columbus GA/KSC. Landing is at 1248 UTC and the shuttle will be over MT at about 1210 UTC.

Those near the ground track may hear the double sonic boom.

If it's delayed one orbit, the track would shift south somewhat. Bill WB8ELK in Huntsville will have a good seat for either opportunity.

73 de Mark N9XTN

6799. Fwd: See or hear Discovery during the landing approach Monday morning?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:18:15 UTC
From: wb8elk@aol.com
Topic: 6799 Message: 6799

Here's some detailed info on the possible landing visible tracks for the Shuttle landing.

- Bill WB8ELK

-----Original Message-----
From: Barry L. Lankford <BarryL@...>
To: harc-al@yahoogroups.com
Cc: Bill Brown WB8ELK <WB8ELK@...>; Gary Dion N4TXI <garydion@...>; Alan Sieg WB5RMG <wb5rmg@...>
Sent: Sun, Apr 18, 2010 5:18 am
Subject: See or hear Discovery during the landing approach Monday morning?

Hi all,

The space shuttle Discovery is scheduled to make a relatively rare "descending-node" landing early Monday morning. If the weather cooperates to allow a landing in Florida (rather than at the Dryden landing site in California), this may allow for a possibility of a sighting and/or hearing the sonic boom. Discovery will be doing between Mach 10 and Mach 12 when it makes its closest approach to the Huntsville area.

The first landing opportunity (orbit 222) for Florida has Discovery entering Alabama airspace near the NW corner and preceeding SE for a landing at KSC around 7:48am CDT. See the track here:
> http://spaceflightnow.com/shuttle/sts131/fdf/orbit222track.pdf

The second KSC opportunity (orbit 223) has the track over Alabama pass a little south of the previous one and should result in a landing about 90 minutes later or around 8:23am CDT. See the track here:
> http://spaceflightnow.com/shuttle/sts131/fdf/orbit223track.pdf

Neither path brings it really close to the Huntsville area, although I believe it may be just barely within line-of-sight, low to the SW. Also, I believe the Sun will have been up for at least two hours, so sighting Discovery probably isn't in the cards, but it might be possible to hear the sonic boom if you are outside and there's not much other noise. Don't have the exact time of closest approach, but it takes about one hour between the de-orbit burn and the landing. So, you could probably guessimate a good time to start looking and listening, and not have to spend a lot of time standing out in your yard looking up.

There's also the possibility of the landing being in California or at a later time (Tuesday morning), but I haven't seen any estimates yet about the likelihood of that happening.

Barry N4MSJ

6800. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:21:21 UTC
From: wb8elk@aol.com
Topic: 6792 Message: 6800

Joe....with Li-ion and particularly so with the LiPo packs common in R/C aircraft....if you discharge below the minimum recommended voltage level, you have essentially turned the pack into a NON-rechargeable primary battery....they aren't kidding when they say to stop at that minimum voltage level....as Mark pointed out, you can sometimes bring them back, but often they are toast. I'd recommend a cutoff circuit when the cells get below that minimum level.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Sun, Apr 18, 2010 2:44 pm
Subject: Re: [GPSL] Li Batteries.

The deep discharge may well have killed one or more cells. Getting warmer than normal and not taking a charge is a bad sign.

There is a steep falloff in the voltage as the cells hit the end of their capacity. There's not much capacity left under 3.0V/cell. I try not to let mine run under 3.3V/cell.

I have run Li-ion packs down to 2.0V/cell accidentally and was able to continue using them. But I'm very cautious when recharging them after such an event - I watch the temp and voltage very carefully when initially charging.

LiPo packs are even more intolerant - I killed one pack after the first deep discharge and the pack started swelling and heading when I tried to charge it. Left it outside on the middle of a concrete pad for a couple of days just in case it decided to burst or something worse.

73 de Mark N9XTN

On Sun, Apr 18, 2010 at 14:22, Idle-Tyme <nss@...> wrote:

These guys,

http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx

What are the symptoms of them being abused?

Heres the history.

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Ok, it ran again for about 11 hours or so, and it was still like at 12.5 volts. but wanted to see how long it takes now to get again to the 12 volt level. I leave it running, and about a hour later look at the UI View and last beacon was 20 minutes ago! YIKES! I go outside and check it. WOW when they say min voltage is 12 they mean it. it must fall like a rock after then. for it was all the way down to 3.8 volts!

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thoughts?

Joe

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6801. Re: [GPSL] Fwd: See or hear Discovery during the landing approach Monday morning?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:24:25 UTC
From: Idle-Tyme
Topic: 6799 Message: 6801
Attachments: 1 described; binary payloads are missing from this source WARC

Still wondering how high it will be in Iowa,,, and if i would be able to
see it from here or not ya know?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 6:18 PM, wb8elk@... wrote:
>
>
>
> Here's some detailed info on the possible landing visible tracks for
> the Shuttle landing.
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Barry L. Lankford <BarryL@...>
> To: harc-al@yahoogroups.com
> Cc: Bill Brown WB8ELK <WB8ELK@...>; Gary Dion N4TXI
> <garydion@...>; Alan Sieg WB5RMG <wb5rmg@...>
> Sent: Sun, Apr 18, 2010 5:18 am
> Subject: See or hear Discovery during the landing approach Monday morning?
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> Hi all,
>
> The space shuttle Discovery is scheduled to make a relatively rare
> "descending-node" landing early Monday morning. If the weather
> cooperates to allow a landing in Florida (rather than at the Dryden
> landing site in California), this may allow for a possibility of a
> sighting and/or hearing the sonic boom. Discovery will be doing
> between Mach 10 and Mach 12 when it makes its closest approach to the
> Huntsville area.
>
> The first landing opportunity (orbit 222) for Florida has Discovery
> entering Alabama airspace near the NW corner and preceeding SE for a
> landing at KSC around 7:48am CDT. See the track here:
> > http://spaceflightnow.com/shuttle/sts131/fdf/orbit222track.pdf
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> a little south of the previous one and should result in a landing
> about 90 minutes later or around 8:23am CDT. See the track here:

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> much other noise. Don't have the exact time of closest approach, but
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> you could probably guessimate a good time to start looking and
> listening, and not have to spend a lot of time standing out in your
> yard looking up.
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> There's also the possibility of the landing being in California or at
> a later time (Tuesday morning), but I haven't seen any estimates yet
> about the likelihood of that happening.
>
> Barry N4MSJ
>
>
>
>

6802. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:25:55 UTC
From: Idle-Tyme
Topic: 6792 Message: 6802
Attachments: 1 described; binary payloads are missing from this source WARC

Live and learn he he he

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 6:21 PM, wb8elk@... wrote:
>
>
> Joe....with Li-ion and particularly so with the LiPo packs common in
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> level, you have essentially turned the pack into a NON-rechargeable
> primary battery....they aren't kidding when they say to stop at that
> minimum voltage level....as Mark pointed out, you can sometimes bring
> them back, but often they are toast. I'd recommend a cutoff circuit
> when the cells get below that minimum level.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL@yahoogroups.com
> Sent: Sun, Apr 18, 2010 2:44 pm
> Subject: Re: [GPSL] Li Batteries.
>
> The deep discharge may well have killed one or more cells. Getting
> warmer than normal and not taking a charge is a bad sign.
>
> There is a steep falloff in the voltage as the cells hit the end of
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> 73 de Mark N9XTN
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> <mailto:nss@...>> wrote:
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> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
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>
> Heres the history.
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> thoughts?
>

> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
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6803. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:42:39 UTC
From: Mike Manes
Topic: 6792 Message: 6803

That's dangerous, Joe. It's important to monitor the voltage of each cell in the series stack, both during charge and discharge, for max 4.20V and min 2.50 or 3.0V. Once a cell hits 4.2 during charge, the charge current must back off to keep the voltage at 4.2V, and that pretty much requires that each cell be charged independently. Letting a cell discharge too far risks developing a tendril short thru the separator matrix - and fire. And overcharging one past 4.2 also risks a fire due to outgassing.

These precautions are presented on the all-battery.com Li-ion web pages, and they require you to sign and mail in a signed affidavit committing you to abiding these rules plus a mess of others. At least, I had to.

Li-ion's are great for balloon payload, but one must treat 'em with respect.

73 de Mike W5vSI

On 4/18/2010 13:22, Idle-Tyme wrote:
> These guys,
>
> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
>
> What are the symptoms of them being abused?
>
> Heres the history.
>
> I have a set of four in series that I made into a pack. From the factory
> they had a charge on them the level? who knows. But i tested them on a
> microtrac 300 and it lasted 11 hours when it got to the 12 volt
> suggested cut off point.
>
> Ok, I don't have a real charger for them but i trickled them. with a
> yaesu HT charger that hs a output of 15.2 vdc and maz 200 miliamps.
>
> it took a long time to get the pack back up to that level. I guess ideal
> max is 16.8 for this pack they say finish voltage shopuld be 4.2 per
> cell. But i wasn't able to get it that high.
>
> But ran a second test with them floating at the 15.2 level. charge.
>
> after coming off the charge they settled down to about 14.8 or so. They
> were stone cold throughout the charge and it took like two days to level
> off.
>
> Ok, it ran again for about 11 hours or so, and it was still like at 12.5
> volts. but wanted to see how long it takes now to get again to the 12
> volt level. I leave it running, and about a hour later look at the UI

> View and last beacon was 20 minutes ago! YIKES! I go outside and check
> it. WOW when they say min voltage is 12 they mean it. it must fall like
> a rock after then. for it was all the way down to 3.8 volts!
>
> I shut it down and started it on the yaesu charger again. it comes up
> the same as it did before except it will NOT go above 12 volts now. and
> once it got to the 12 volt point now the pack is warm to the touch. it
> never got warm the first time, but now refuses to go above12 volts and
> the pack is warm.
>
> thoughts?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6804. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-18 23:45:43 UTC
From: Mike Manes
Topic: 6792 Message: 6804

Joe, I got 6 (count 'em) dupes of your email, all with the same posting time.
Que' pasa?
73 de Mike W5VSI

On 4/18/2010 13:22, Idle-Tyme wrote:
> These guys,
>
> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
>
> What are the symptoms of them being abused?
>
> Heres the history.
>
> I have a set of four in series that I made into a pack. From the factory
> they had a charge on them the level? who knows. But i tested them on a
> microtrac 300 and it lasted 11 hours when it got to the 12 volt
> suggested cut off point.
>
> Ok, I don't have a real charger for them but i trickled them. with a
> yaesu HT charger that hs a output of 15.2 vdc and maz 200 miliamps.
>
> it took a long time to get the pack back up to that level. I guess ideal
> max is 16.8 for this pack they say finish voltage shopuld be 4.2 per
> cell. But i wasn't able to get it that high.
>
> But ran a second test with them floating at the 15.2 level. charge.
>
> after coming off the charge they settled down to about 14.8 or so. They
> were stone cold throughout the charge and it took like two days to level
> off.
>
> Ok, it ran again for about 11 hours or so, and it was still like at 12.5
> volts. but wanted to see how long it takes now to get again to the 12
> volt level. I leave it running, and about a hour later look at the UI
> View and last beacon was 20 minutes ago! YIKES! I go outside and check
> it. WOW when they say min voltage is 12 they mean it. it must fall like
> a rock after then. for it was all the way down to 3.8 volts!
>
> I shut it down and started it on the yaesu charger again. it comes up
> the same as it did before except it will NOT go above 12 volts now. and
> once it got to the 12 volt point now the pack is warm to the touch. it
> never got warm the first time, but now refuses to go above12 volts and
> the pack is warm.
>
> thoughts?

>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6805. Re: [GPSL] Li Batteries.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 00:01:55 UTC
From: Idle-Tyme
Topic: 6792 Message: 6805
Attachments: 1 described; binary payloads are missing from this source WARC

realy?

Thats a finny yahoo hiccup.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/18/2010 6:45 PM, Mike Manes wrote:
> Joe, I got 6 (count 'em) dupes of your email, all with the same posting time.
> Que' pasa?
> 73 de Mike W5VSI
>
> On 4/18/2010 13:22, Idle-Tyme wrote:
>
>> These guys,
>>
>> http://www.all-battery.com/4pcstenergyli-ion1865037v2200mahbatterywithtabs.aspx
>>
>> What are the symptoms of them being abused?
>>
>> Heres the history.
>>
>> I have a set of four in series that I made into a pack. From the factory
>> they had a charge on them the level? who knows. But i tested them on a
>> microtrac 300 and it lasted 11 hours when it got to the 12 volt
>> suggested cut off point.
>>
>> Ok, I don't have a real charger for them but i trickled them. with a
>> yaesu HT charger that hs a output of 15.2 vdc and maz 200 miliamps.
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>> it took a long time to get the pack back up to that level. I guess ideal
>> max is 16.8 for this pack they say finish voltage shopuld be 4.2 per
>> cell. But i wasn't able to get it that high.
>>
>> But ran a second test with them floating at the 15.2 level. charge.
>>
>> after coming off the charge they settled down to about 14.8 or so. They
>> were stone cold throughout the charge and it took like two days to level
>> off.
>>
>> Ok, it ran again for about 11 hours or so, and it was still like at 12.5

>> volts. but wanted to see how long it takes now to get again to the 12
>> volt level. I leave it running, and about a hour later look at the UI
>> View and last beacon was 20 minutes ago! YIKES! I go outside and check
>> it. WOW when they say min voltage is 12 they mean it. it must fall like
>> a rock after then. for it was all the way down to 3.8 volts!
>>
>> I shut it down and started it on the yaesu charger again. it comes up
>> the same as it did before except it will NOT go above 12 volts now. and
>> once it got to the 12 volt point now the pack is warm to the touch. it
>> never got warm the first time, but now refuses to go above12 volts and
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>> thoughts?
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>> Joe
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>

6806. GPSL Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 01:08:19 UTC
From: Zack Clobes
Topic: 694 Message: 6806

Hello GPSL'ers...

Keith has the GPSL site updated with the schedule of events, including the various presentations on Friday. I think that I accommodated everyone's time request that they submitted originally, but if these times don't work, please contact me ASAP.

Like I said before, the hotels are filling up quickly, so please make your reservations NOW! :-)

Finally, I have some rough prices on helium. These are rough, include delivery charges, and the salesman expected that they very well could drop by summer. Once we get a little closer and have a firm price, I will get an online order form ready.

Helium Prices (including delivery charges):
K-Tank - $75 + tax
T-Tank - $88 + tax

I almost have the launch sites narrowed down, and hope to announce those this week. Any questions, comments, or concerns about GPSL 2010?

Zack Clobes, W0ZC
Project: Traveler

6807. Re: [GPSL] Shuttle reentry over CONUS tomorrow

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 03:26:21 UTC
From: Barry L. Lankford
Topic: 6794 Message: 6807

Hi Bill,

I remember seeing one like that as well. Its course was due south, and I both saw it in the eastern sky and heard the sonic booms from my backyard. I suspect it was the same landing you saw, and I seem to recall we discussed seeing it, maybe in emails. If I get around to it, I might try finding a reference to it in my archived emails, but I have no idea of when it happened.

As for trying to predict whether it'll be high enough and close enough to see, I reckon we could Google for more definitive landing profile information (altitude and location vs. time) and do some calculations about line-of-sight and know beforehand *OR* we could just go outside several minutes before the landing time and look out to the SW. Years ago when I was younger, I'd have opted for the first approach, but now the second appeals to me more.

Those who might want to try predicting the landing visibility from your own location might want to take a look at this page:

> http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts131/news/131_landing_webfeature.html

I haven't tried it yet, but it looks like it might give the info needed.

The other variable in the equation (as if we needed another) is your local weather. You won't see the shuttle through a solid overcast, but you might hear it (although it wouldn't surprise me if cloudy skies might also soak up the sound to some degree). The forecast for here in north Alabama shows clouds starting to enter the area at just about the orbit 222 landing time, so we could be in good shape in that regard.

Barry N4MSJ

wb8elk@... wrote:
> The last one that went over our area a few years ago passed over
> Chattanooga, TN and along the AL/GA line about 80 miles away....I could
> see it zip from one horizon to the other in under 30 seconds going about
> MACH 15 and 230 k feet high....boy was it fast....it was right at
> sunset with the Sun behind my back so it stood out great....about 7.5
> minutes later I heard a weak but quite recognizable double sonic boom.
>
> Those of you to the NW of me will get quite a show as it blazes in just
> prior to sunrise.
>
> - Bill WB8ELK
>

6808. Re: [GPSL] GPSL Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 03:47:57 UTC
From: L. Paul Verhage
Topic: 694 Message: 6808

I guess we need to look at magazines and flyers we want to give everyone.
I'll contact N&V about getting copies of the July issue.

Paul

On Sun, Apr 18, 2010 at 8:08 PM, Zack Clobes <zclobes@...> wrote:

>
>
> Hello GPSL'ers...
>
> Keith has the GPSL site updated with the schedule of events, including the
> various presentations on Friday. I think that I accommodated everyone's
> time request that they submitted originally, but if these times don't work,
> please contact me ASAP.
>
> Like I said before, the hotels are filling up quickly, so please make your
> reservations NOW! :-)
>
> Finally, I have some rough prices on helium. These are rough, include
> delivery charges, and the salesman expected that they very well could drop
> by summer. Once we get a little closer and have a firm price, I will get an
> online order form ready.
>
> Helium Prices (including delivery charges):
> K-Tank - $75 + tax
> T-Tank - $88 + tax
>
>
> I almost have the launch sites narrowed down, and hope to announce those
> this week. Any questions, comments, or concerns about GPSL 2010?
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>

--
Onwards and Upwards,
Paul

6809. Re: [GPSL] Fwd: See or hear Discovery during the landing approach Monday morning?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 04:15:19 UTC
From: Daniel Bowen
Topic: 6799 Message: 6809

Bill, could you do meteor scatter communications on the shuttle's re-entry ionization?
Dan

On Sunday, April 18, 2010, at 07:18PM, <wb8elk@...> wrote:
>

6810. Re: [GPSL] Fwd: See or hear Discovery during the landing approach Monday morning?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 05:20:14 UTC
From: Barry L. Lankford
Topic: 6799 Message: 6810
Attachments: 1 described; binary payloads are missing from this source WARC

The NASA site I gave in a previous post does appear to work to give definitive sighting information (azimuth, elevation, range, solar altitude and separation) for shuttle landing paths for specific locations. To go directly to the Java-based calculator, go to:

>
http://spaceflight.nasa.gov/realdata/sightings/SSapplications/Post/JavaSSOP/JavaSSOP.html

For help with using the calculator, click on the 'intro', 'help' and 'FAQ' links above the map. IIRC I only entered my zipcode under the 'Map' tab and then under the 'Input' tab, selected the Satellite, such as 'KSC222(Entry).' My location and time zone correction data was already filled in from my zipcode entry under the 'Map' tab. Then I clicked 'Next Sighting' to get the table. I also clicked 'Print' to get it in printable form in my web browser (Firefox) from which I printed to PDF Creator.

It appears that both the orbit 222 and 223 landing opportunities will be within line-of-sight in the Madison & Huntsville Alabama area, with maximum elevations of 25.3 degrees and 14.7 degrees, respectively. Not great but possible if you have a relatively unobstructed view to the horizon to the SW. The calculator also gives landing data for other orbits and landing sites (KSC and EDW), but it appears that only the #222 and #223 landings work for the Madison/Huntsville area. Now, if only the weather will cooperate (both here and at KSC).

Don't know if the HARC and GPSL groups allow attachments, but I'll attach a PDF file with the #222 and #223 opportunities already calculated for the Madison/Huntsville area.

Barry N4MSJ

6811. How to predict where to look for the visible Shuttle path for the landing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 06:51:07 UTC
From: wb8elk@aol.com
Topic: 6811 Message: 6811

They have a JAVA app that will give you Az/ EL and times when to look based on your location for each of the possible landing orbits.

http://spaceflight.nasa.gov/realdata/sightings/index.html

- Bill WB8ELK

6812. Re: [GPSL] Fwd: See or hear Discovery during the landing approach Monday morning?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 06:58:37 UTC
From: wb8elk@aol.com
Topic: 6799 Message: 6812

I've heard that it is possible to do a "shuttle bounce" off the ionized trail...you'd have to have two stations ideally located on either side of the trail with some power, CW or SSB and a nice antenna array with AZ/EL mount...for those who have been trying to hear Arecibo this past weekend on EME Moonbounce, you're all set for Shuttle Bounce....btw, we were at UAH campus at their ham ground station and could hear Arecibo on Moonbounce like they were locals....even on SSB....we were using a circularly polarized M2 42 element single yagi (22 elements in each plane)....the mast mounted AR2 preamp made the difference.

- Bill WB8ELK

-----Original Message-----
From: Daniel Bowen <dbowen1@...>
To: GPSL@yahoogroups.com
Sent: Sun, Apr 18, 2010 11:15 pm
Subject: Re: [GPSL] Fwd: See or hear Discovery during the landing approach Monday morning?

Bill, could you do meteor scatter communications on the shuttle's re-entry ionization?
an

n Sunday, April 18, 2010, at 07:18PM, <wb8elk@...> wrote:

Here's some detailed info on the possible landing visible tracks for the Shuttle landing.

- Bill WB8ELK

-----Original Message-----
From: Barry L. Lankford <BarryL@HiWAAY.net>
To: harc-al@yahoogroups.com
Cc: Bill Brown WB8ELK <WB8ELK@...>; Gary Dion N4TXI <garydion@...>; Alan Sieg WB5RMG <wb5rmg@...>
Sent: Sun, Apr 18, 2010 5:18 am
Subject: See or hear Discovery during the landing approach Monday morning?

Hi all,

The space shuttle Discovery is scheduled to make a relatively rare "descending-node" landing early Monday morning. If the weather cooperates to allow a landing in Florida (rather than at the Dryden landing site in California), this may allow for a possibility of a sighting and/or hearing the sonic boom. Discovery will be doing between Mach 10 and Mach 12 when it makes its closest approach to the Huntsville area.

The first landing opportunity (orbit 222) for Florida has Discovery entering Alabama airspace near the NW corner and preceeding SE for a landing at KSC around 7:48am CDT. See the track here:
> http://spaceflightnow.com/shuttle/sts131/fdf/orbit222track.pdf

The second KSC opportunity (orbit 223) has the track over Alabama pass a little south of the previous one and should result in a landing about 90 minutes later or around 8:23am CDT. See the track here:
> http://spaceflightnow.com/shuttle/sts131/fdf/orbit223track.pdf

Neither path brings it really close to the Huntsville area, although I believe it may be just barely within line-of-sight, low to the SW. Also, I believe the Sun will have been up for at least two hours, so sighting Discovery probably isn't in the cards, but it might be possible to hear the sonic boom if you are outside and there's not much other noise. Don't have the exact time of closest approach, but it takes about one hour between the de-orbit burn and the landing. So, you could probably guessimate a good time to start looking and listening, and not have to spend a lot of time standing out in your yard looking up.

There's also the possibility of the landing being in California or at a later time (Tuesday morning), but I haven't seen any estimates yet about the likelihood of that happening.

Barry N4MSJ

6813. Shuttle lands Tuesday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 13:23:01 UTC
From: Mark Conner
Topic: 6813 Message: 6813

Shuttle landing postponed to Tuesday - landing now scheduled for 1023 EDT Tuesday morning. I'm unable to find anything yet on the ground track for this landing opportunity.

73 de Mark N9XTN

6814. Twitter Interest

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 15:45:01 UTC
From: Keith Kaiser
Topic: 6814 Message: 6814

I've been thinking about adding some twitter functionality to the launch announcement web site. But before I do it and spend the time on it I'd like some feedback.

1) Does your group have a twitter account?
2) Does anyone in your group use it?
3) Do you have a personal account, do you use it?

Twitter has a new CGI like interface called @anywhere, some of it's functionality might be useful on the announcement page or even on the primary ARHAB.org page. But again, is there any interest?

Any ideas how you would like to see twitter in use on these pages? Do you have any other ideas you would like to see implemented into these pages?

Thanks guys...

6815. Re: [GPSL] Twitter Interest

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 16:04:53 UTC
From: L. Paul Verhage
Topic: 6814 Message: 6815

I use it myself and end most of my posts with #ARHAB. Perhaps every tweet
with #ARHAB could be displayed on the ARHAB page?

Paul

On Mon, Apr 19, 2010 at 10:45 AM, Keith Kaiser <wa0tjt@...> wrote:

> I've been thinking about adding some twitter functionality to the launch
> announcement web site. But before I do it and spend the time on it I'd like
> some feedback.
>
> 1) Does your group have a twitter account?
> 2) Does anyone in your group use it?
> 3) Do you have a personal account, do you use it?
>
> Twitter has a new CGI like interface called @anywhere, some of it's
> functionality might be useful on the announcement page or even on the
> primary ARHAB.org page. But again, is there any interest?
>
> Any ideas how you would like to see twitter in use on these pages? Do you
> have any other ideas you would like to see implemented into these pages?
>
> Thanks guys...
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

--
Onwards and Upwards,
Paul

6816. Re: [GPSL] Twitter Interest

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 16:38:11 UTC
From: Zack Clobes
Topic: 6814 Message: 6816

1. Yes
2. Sort of - I use it to post updates that show on our homepage (www.projecttraveler.org). I intend to utilize this during our 2010a launch to give live updates to those who aren't on the chase. I don't believe there are any/many others following my tweets.
3. Again, not really. I've only used it once to communicate with family when I was on a trip last year. Being tied to any old generic cell phone (with texting capabilities) it worked fairly well.

Zack Clobes, W0ZC
Project: Traveler

On Mon, Apr 19, 2010 at 11:04 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I use it myself and end most of my posts with #ARHAB. Perhaps every tweet
> with #ARHAB could be displayed on the ARHAB page?
>
> Paul
>
> On Mon, Apr 19, 2010 at 10:45 AM, Keith Kaiser <wa0tjt@...> wrote:
>
>> I've been thinking about adding some twitter functionality to the launch
>> announcement web site. But before I do it and spend the time on it I'd like
>> some feedback.
>>
>> 1) Does your group have a twitter account?
>> 2) Does anyone in your group use it?
>> 3) Do you have a personal account, do you use it?
>>
>> Twitter has a new CGI like interface called @anywhere, some of it's
>> functionality might be useful on the announcement page or even on the
>> primary ARHAB.org page. But again, is there any interest?
>>
>> Any ideas how you would like to see twitter in use on these pages? Do you
>> have any other ideas you would like to see implemented into these pages?
>>
>> Thanks guys...
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>>

>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

6817. Re: [GPSL] Twitter Interest

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 17:16:39 UTC
From: BASE
Topic: 6814 Message: 6817

BASE_DePauw has a twitter account, and we have about 20 followers. I also have a separate account where I follow other ballooning programs and activities (Superlaunch, EOSS, and as of now NearSys and ProjectTraveler). BASE_Depauw attempts to tweet about our flights. There is also a fan page on Facebook for BASE_DePauw. I have primitive links and connections between the Twitter, Facebook, and the program homepage.
Considering how simple my phone is, I'll have to do more pre-work to have the #ARHAB hash added to the tweets.
Howard

--- On Mon, 4/19/10, Zack Clobes <zclobes@gmail.com> wrote:

From: Zack Clobes <zclobes@...>
Subject: Re: [GPSL] Twitter Interest
To: GPSL@yahoogroups.com
Date: Monday, April 19, 2010, 12:38 PM

1. Yes
2. Sort of - I use it to post updates that show on our homepage (www.projecttraveler .org). I intend to utilize this during our 2010a launch to give live updates to those who aren't on the chase. I don't believe there are any/many others following my tweets.

3. Again, not really. I've only used it once to communicate with family when I was on a trip last year. Being tied to any old generic cell phone (with texting capabilities) it worked fairly well.

Zack Clobes, W0ZC

Project: Traveler

On Mon, Apr 19, 2010 at 11:04 AM, L. Paul Verhage <nearsys@gmail. com> wrote:

I use it myself and end most of my posts with #ARHAB. Perhaps every tweet with #ARHAB could be displayed on the ARHAB page?

Paul

On Mon, Apr 19, 2010 at 10:45 AM, Keith Kaiser <wa0tjt@gmail. com> wrote:

I've been thinking about adding some twitter functionality to the launch announcement web site. But before I do it and spend the time on it I'd like some feedback.

1) Does your group have a twitter account?
2) Does anyone in your group use it?
3) Do you have a personal account, do you use it?

Twitter has a new CGI like interface called @anywhere, some of it's functionality might be useful on the announcement page or even on the primary ARHAB.org page. But again, is there any interest?

Any ideas how you would like to see twitter in use on these pages? Do you have any other ideas you would like to see implemented into these pages?

Thanks guys...

Yahoo! Groups Links

Individual Email | Traditional

http://docs. yahoo.com/ info/terms/

--
Onwards and Upwards,
Paul

6818. Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 17:50:28 UTC
From: Idle-Tyme
Topic: 6811 Message: 6818
Attachments: 1 described; binary payloads are missing from this source WARC

The nice calculator seems to b missing now. Anyone know where it is
again. Want to try to see about maybe seeing it tomorrow?

Joe EN43xo

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/19/2010 1:51 AM, wb8elk@... wrote:
>
>
> They have a JAVA app that will give you Az/ EL and times when to look
> based on your location for each of the possible landing orbits.
>
> http://spaceflight.nasa.gov/realdata/sightings/index.html
> - Bill WB8ELK
>
>
>

6819. Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 18:19:48 UTC
From: BASE
Topic: 6811 Message: 6819
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,
The quick link appears to be empty, but I was able to run the satellite tracking applet that Bill mentioned from this page:
 http://spaceflight.nasa.gov/realdata/sightings/index.html
You will need to do some setup the first time to let the applet know where you are. You will need to select the satellite you want to track. For tomorrow, the first opportunity will be on KSC 237 (ENTRY) and the second on KSC 238 (ENTRY). I ran it with your Zip Code, and the first pass will be very good maximum elevation angle of 63 degrees. The second orbit won't be up high enough for you.
Howard

--- On Mon, 4/19/10, Idle-Tyme <nss@...> wrote:

From: Idle-Tyme <nss@...>
Subject: Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing
To: GPSL@yahoogroups.com
Date: Monday, April 19, 2010, 1:50 PM

The nice calculator seems to b missing now. Anyone know where it is
again. Want to try to see about maybe seeing it tomorrow?

Joe EN43xo

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 4/19/2010 1:51 AM, wb8elk@aol.com wrote:

They have a JAVA app that
will give you Az/ EL and times when to look based on your location for
each of the possible landing orbits.

http://spaceflight.nasa.gov/realdata/sightings/index.html

- Bill WB8ELK

6820. Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 19:20:30 UTC
From: Alan Sieg WB5RMG
Topic: 6811 Message: 6820

Try here :

http://spaceflight.nasa.gov/realdata/sightings/SSapplications/Post/JavaSSOP/JavaSSOP.html

> The nice calculator seems to b missing now. Anyone know where it is
> again. Want to try to see about maybe seeing it tomorrow?

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6821. Handheld with GPS & APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 21:39:59 UTC
From: DON FRASER
Topic: 6821 Message: 6821

Has anyone used any of the new handhelds with built in GPS and APRS for tracking a balloon?

If so any comments?

Don WA9WWS

6822. MAh Ratings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 21:49:11 UTC
From: Idle-Tyme
Topic: 6822 Message: 6822
Attachments: 1 described; binary payloads are missing from this source WARC

Ok thr Lithium AA cells we ahve been talking about are rated at 3000 MAh.

What does a standard AA Alkaline battery come in at?

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6823. Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 22:23:03 UTC
From: natewac@aol.com
Topic: 6811 Message: 6823

This s theone I use.

http://www.heavens-above.com/?Loc=Toledo&Lat=41.664&Lng=-83.555&Alt=191&TZ=EST

N8WAC,Tony

-----Original Message-----
From: Alan Sieg WB5RMG <wb5rmg@...>
To: GPSL@yahoogroups.com
Sent: Mon, Apr 19, 2010 3:20 pm
Subject: Re: [GPSL] How to predict where to look for the visible Shuttle path for the landing

Try here :

http://spaceflight.nasa.gov/realdata/sightings/SSapplications/Post/JavaSSOP/JavaSSOP.html

> The nice calculator seems to b missing now. Anyone know where it is
> again. Want to try to see about maybe seeing it tomorrow?

/;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

6824. RE: [GPSL] Shuttle lands Tuesday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-19 23:26:32 UTC
From: Doug, KA0O
Topic: 6813 Message: 6824

This will get you the nice page .

http://spaceflight.nasa.gov/realdata/sightings/SSapplications/Post/JavaSSOP/JavaSSOP.html

Doug, KAØO

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Monday, April 19, 2010 8:23 AM
To: GPSL list
Subject: [GPSL] Shuttle lands Tuesday

Shuttle landing postponed to Tuesday - landing now scheduled for 1023
EDT Tuesday morning. I'm unable to find anything yet on the ground
track for this landing opportunity.

73 de Mark N9XTN

6825. MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 00:44:46 UTC
From: jjdemeyer
Topic: 6825 Message: 6825

As you may recall, I discussed the development of a MapPoint Add-In, called Flight Track, for weather balloon flight prediction, tracking, and review at GPSL 2009. The Add-In is now available for download at

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download

The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.

Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&ContactSetUp=Feedback

Give it a try and let me know what you think!

Joe DeMeyer
www.surfingsatellites.org

6826. Re: MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 00:52:59 UTC
From: jjdemeyer
Topic: 6825 Message: 6826

The first post contained a period at the end of the URL which made it fail. Here is the URL without the period

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm

Joe

--- In GPSL@yahoogroups.com, "jjdemeyer" <jjdemeyer@...> wrote:
>
> As you may recall, I discussed the development of a MapPoint Add-In, called Flight Track, for weather balloon flight prediction, tracking, and review at GPSL 2009. The Add-In is now available for download at
>
> http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download
>
> The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at
>
> http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.
>
> Feedback and suggestions are welcome here
>
> http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&ContactSetUp=Feedback
>
> Give it a try and let me know what you think!
>
>
> Joe DeMeyer
> www.surfingsatellites.org
>

6827. Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 02:22:01 UTC
From: Bruce Coates
Topic: 6825 Message: 6827

Hi Joe

Looks great. I've been anxiously awaiting this since Zack demonstrated it at GPSL last year.

73, Bruce - VE5BNC

----- Original Message -----
From: jjdemeyer
To: GPSL@yahoogroups.com
Sent: Monday, April 19, 2010 6:44 PM
Subject: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

As you may recall, I discussed the development of a MapPoint Add-In, called Flight Track, for weather balloon flight prediction, tracking, and review at GPSL 2009. The Add-In is now available for download at

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download

The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.

Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&ContactSetUp=Feedback

Give it a try and let me know what you think!

Joe DeMeyer
www.surfingsatellites.org

6828. Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 02:41:50 UTC
From: Zack Clobes
Topic: 6825 Message: 6828

Not totally sure if you're referring to me or not... I was using Map Point for my custom tracking software, but ultimately decided that MP couldn't keep up with the massive amounts of stations that get hit, especially when you're connected to the iGate.

I've since switched to a hybrid offline Google-map solution.

Not sure about the performance on this Add-In... just speaking from my experience.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Apr 19, 2010 at 9:22 PM, Bruce Coates <bruce.coates@sasktel.net>wrote:

>
>
> Hi Joe
>
> Looks great. I've been anxiously awaiting this since Zack demonstrated it
> at GPSL last year.
>
> 73, Bruce - VE5BNC
>
>
> ----- Original Message -----
> *From:* jjdemeyer <jjdemeyer@yahoo.com>
> *To:* GPSL@yahoogroups.com
> *Sent:* Monday, April 19, 2010 6:44 PM
> *Subject:* [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing
> Balloon Flights
>
>
>
> As you may recall, I discussed the development of a MapPoint Add-In, called
> Flight Track, for weather balloon flight prediction, tracking, and review at
> GPSL 2009. The Add-In is now available for download at
>
>
> http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download
>
> The Add-In installs with sample flight data so you can immediately evaluate
> its primary functions. For more information, I invite you to review the
> Flight Track on line Help at

>
> http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.
>
> Feedback and suggestions are welcome here
>
>
> http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&Contact
SetUp=Feedback
>
> Give it a try and let me know what you think!
>
> Joe DeMeyer
> www.surfingsatellites.org
>
>
>

6829. USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 02:52:52 UTC
From: Zack Clobes
Topic: 6829 Message: 6829

I'm having a problem, and I *think* I've narrowed it down as follows.

1. Fire up the GPS - 4800 baud NMEA
2. Plug GPS into USB-232 adapter
3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
4. The cursor will randomly jump around the screen, occasionally clicking on things.

Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.

Has anyone else run into this or know of a solution?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6830. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 03:05:18 UTC
From: Mark Conner
Topic: 6829 Message: 6830

Yes, especially under WinXP. The GPS data can fool Windows into thinking it's a mouse. Do steps 3, 2, 1 in that order and you should eliminate step 4.

73 de Mark N9XTN

On Mon, Apr 19, 2010 at 21:52, Zack Clobes <zclobes@...> wrote:

>
>
> I'm having a problem, and I *think* I've narrowed it down as follows.
>
> 1. Fire up the GPS - 4800 baud NMEA
> 2. Plug GPS into USB-232 adapter
> 3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
> 4. The cursor will randomly jump around the screen, occasionally clicking
> on things.
>
>
> Tonight I noticed under Devices, it was actually showing one of my USB
> adapters as a mouse on Com6. I can still open the Com port in a terminal
> program correctly, it just messes with the otherwise tired mind.
>
> Has anyone else run into this or know of a solution?
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

6831. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 03:08:03 UTC
From: Michael Willett
Topic: 6829 Message: 6831

I have seen that on a few of my USB to Serial adapters on XP too. It was showing up as a Microsoft Serial Mouse. I disabled / maybe removed the Microsoft Serial Mouse and have not had problems since. Not sure if that was the cure or the right way to get the USB device identified correctly. It would only happen randomly with my USB adapters and I have not seen the problem in a while.

--Michael
K5NOT

On 4/19/2010 9:52 PM, Zack Clobes wrote:
>
> I'm having a problem, and I /think/ I've narrowed it down as follows.
>
> 1. Fire up the GPS - 4800 baud NMEA
> 2. Plug GPS into USB-232 adapter
> 3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
> 4. The cursor will randomly jump around the screen, occasionally
> clicking on things.
>
>
> Tonight I noticed under Devices, it was actually showing one of my USB
> adapters as a mouse on Com6. I can still open the Com port in a
> terminal program correctly, it just messes with the otherwise tired mind.
>
> Has anyone else run into this or know of a solution?
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>

6832. Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 03:28:00 UTC
From: Bruce Coates
Topic: 6832 Message: 6832

Hi Zack

Oops. I got Project Traveler mixed up with Surfing Satellites. Very cool stuff all the same. I just wish I had the energy to build anything like this.

73, Bruce

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Monday, April 19, 2010 8:41 PM
Subject: Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Not totally sure if you're referring to me or not... I was using Map Point for my custom tracking software, but ultimately decided that MP couldn't keep up with the massive amounts of stations that get hit, especially when you're connected to the iGate.

I've since switched to a hybrid offline Google-map solution.

Not sure about the performance on this Add-In... just speaking from my experience.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Apr 19, 2010 at 9:22 PM, Bruce Coates <bruce.coates@...> wrote:

Hi Joe

Looks great. I've been anxiously awaiting this since Zack demonstrated it at GPSL last year.

73, Bruce - VE5BNC

----- Original Message -----
From: jjdemeyer
To: GPSL@yahoogroups.com
Sent: Monday, April 19, 2010 6:44 PM
Subject: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

As you may recall, I discussed the development of a MapPoint Add-In, called Flight Track, for weather balloon flight prediction, tracking, and review at GPSL 2009. The Add-In is now available for download at

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download

The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.

Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&ContactSetUp=Feedback

Give it a try and let me know what you think!

Joe DeMeyer
www.surfingsatellites.org

6833. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 05:17:04 UTC
From: dvpatterson@comcast.net
Topic: 6829 Message: 6833

This is a known issue for 2000, XP, and Server 2003, though I've seen complaints on the topic on forms for Vista and Win7. Microsoft actually made a tool for the first three OS's mentioned... it can be found here: http://support.microsoft.com/kb/819036 ; might be worth a shot.

-David

----- Original Message -----
From: "Michael Willett" <mw@...>
To: GPSL@yahoogroups.com
Sent: Monday, April 19, 2010 9:08:03 PM GMT -07:00 US/Canada Mountain
Subject: Re: [GPSL] USB to 232 adapter showing up as mouse?

I have seen that on a few of my USB to Serial adapters on XP too. It was showing up as a Microsoft Serial Mouse. I disabled / maybe removed the Microsoft Serial Mouse and have not had problems since. Not sure if that was the cure or the right way to get the USB device identified correctly. It would only happen randomly with my USB adapters and I have not seen the problem in a while.

--Michael
K5NOT

On 4/19/2010 9:52 PM, Zack Clobes wrote:

I'm having a problem, and I think I've narrowed it down as follows.

1. Fire up the GPS - 4800 baud NMEA
2. Plug GPS into USB-232 adapter
3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
4. The cursor will randomly jump around the screen, occasionally clicking on things.

Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.

Has anyone else run into this or know of a solution?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6834. Re: [GPSL] Twitter Interest

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 06:45:22 UTC
From: wb8elk@aol.com
Topic: 6814 Message: 6834

Keith and all....I have a Twitter account: WB8ELK but haven't used it much for flights as yet...maybe some of the next ones...I'd need someone who has the time to do tweet updates since I usually have my hands full with prepping for the flight. Also, Twitter is one of the web programs banned at my worksite, they'd come take my computer away if I attempted to follow a Twitter site.....so it isn't very useful to keep in touch or look at status updates while at my work....I can look at main webpage updates and that would be my preference for flight status updates.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Mon, Apr 19, 2010 10:45 am
Subject: [GPSL] Twitter Interest

I've been thinking about adding some twitter functionality to the launch announcement web site. But before I do it and spend the time on it I'd like some feedback.

1) Does your group have a twitter account?
2) Does anyone in your group use it?
3) Do you have a personal account, do you use it?

Twitter has a new CGI like interface called @anywhere, some of it's functionality might be useful on the announcement page or even on the primary ARHAB.org page. But again, is there any interest?

Any ideas how you would like to see twitter in use on these pages? Do you have any other ideas you would like to see implemented into these pages?

Thanks guys...

6835. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 07:27:20 UTC
From: Bruce Coates
Topic: 6829 Message: 6835

Hi Zack

Although the Microsoft utility to disable serial mouse detection mentioned in other posts will work, you have to apply it to every serial port. As you may have noticed, you each time you insert a USB-Serial device into a different port it can be detected as a different comm port, depending on what else is already installed. The best way I've found is to disable the serial mouse service entirely. Unfortunately it's hidden from the Services MMC snapin so you have to disable it via the registry.

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SerMouse
Change the value "Start" from 3 to 4

The only real drawback is that you can never use a serial mouse on your machine.

73, Bruce - VE5BNC

----- Original Message -----
From: Zack Clobes
To: Group GPSL
Sent: Monday, April 19, 2010 8:52 PM
Subject: [GPSL] USB to 232 adapter showing up as mouse?

I'm having a problem, and I think I've narrowed it down as follows.

1. Fire up the GPS - 4800 baud NMEA
2. Plug GPS into USB-232 adapter
3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
4. The cursor will randomly jump around the screen, occasionally clicking on things.

Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.

Has anyone else run into this or know of a solution?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6836. Re: [GPSL] Handheld with GPS & APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 12:26:35 UTC
From: L. Paul Verhage
Topic: 6821 Message: 6836

I'm close to that. I'm using a D-7 and Garmin GPS V. The screen on the Garmin is a bit small, but I find it easy to use as a backup tracker. As long as I know the expected recovery site, I can drive there and make updates based on my tracker.

I'm beginning to wonder how well a cell phone network USB card and laptop will work. We seem to get pretty good coverage out here.

Paul

On Mon, Apr 19, 2010 at 4:39 PM, DON FRASER <wa9wws@...> wrote:

>
>
> Has anyone used any of the new handhelds with built in GPS and APRS for
> tracking a balloon?
>
> If so any comments?
>
> Don WA9WWS
>
>
>

--
Onwards and Upwards,
Paul

6837. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 13:52:14 UTC
From: Keith Kaiser
Topic: 6829 Message: 6837

Hey Bruce, Since you seem to know these kind of things maybe you can tell me how to tell what comm port is actually in use when I plug something into a USB port. I often plug in my Garmin GPS and am asked by the program what com port it is. If Windows doesn't know how the heck do I?

On Apr 20, 2010, at 2:27 AM, Bruce Coates wrote:

>
> Hi Zack
>
> Although the Microsoft utility to disable serial mouse detection mentioned in other posts will work, you have to apply it to every serial port. As you may have noticed, you each time you insert a USB-Serial device into a different port it can be detected as a different comm port, depending on what else is already installed. The best way I've found is to disable the serial mouse service entirely. Unfortunately it's hidden from the Services MMC snapin so you have to disable it via the registry.
>
> HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SerMouse
> Change the value "Start" from 3 to 4
>
> The only real drawback is that you can never use a serial mouse on your machine.
>
> 73, Bruce - VE5BNC
>
> ----- Original Message -----
> From: Zack Clobes
> To: Group GPSL
> Sent: Monday, April 19, 2010 8:52 PM
> Subject: [GPSL] USB to 232 adapter showing up as mouse?
>
>
> I'm having a problem, and I think I've narrowed it down as follows.
>
> 1. Fire up the GPS - 4800 baud NMEA
> 2. Plug GPS into USB-232 adapter
> 3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
> 4. The cursor will randomly jump around the screen, occasionally clicking on things.
>
>
> Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.
>
> Has anyone else run into this or know of a solution?
>

>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

6838. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 15:02:45 UTC
From: Zack Clobes
Topic: 6829 Message: 6838

Thanks Bruce, I will try disabling that service. At this point in time, I hope my days of running serial mice are over...

Keith, the best thing I can say to determine your serial port is to look in Device Manager under Com Ports to see which com ports are actually being enumerated. Especially if you're running a USB to Serial adapter, its fairly easy to narrow down your options.

Also, you can right click on the serial adapter and go into properties. On the 2nd or 3rd tab (sorry I'm not in front of an adapter right now), you usually can set the com port that you want to use. The only issue with changing the port is that sometimes an old adapter that is no longer installed will still be holding that port, so it won't let you.

If you're running Win7 (and Vista I think), there's a Devices and Printers link right on the Start menu that will take you to a list of serial adapters.

On Tue, Apr 20, 2010 at 8:52 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Hey Bruce, Since you seem to know these kind of things maybe you can tell
> me how to tell what comm port is actually in use when I plug something into
> a USB port. I often plug in my Garmin GPS and am asked by the program what
> com port it is. If Windows doesn't know how the heck do I?
>
>
> On Apr 20, 2010, at 2:27 AM, Bruce Coates wrote:
>
>
>
> Hi Zack
>
> Although the Microsoft utility to disable serial mouse detection mentioned
> in other posts will work, you have to apply it to every serial port. As you
> may have noticed, you each time you insert a USB-Serial device into a
> different port it can be detected as a different comm port, depending on
> what else is already installed. The best way I've found is to disable the
> serial mouse service entirely. Unfortunately it's hidden from the Services
> MMC snapin so you have to disable it via the registry.
>
> HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SerMouse
> Change the value "Start" from 3 to 4
>
> The only real drawback is that you can never use a serial mouse on your

> machine.
>
> 73, Bruce - VE5BNC
>
>
> ----- Original Message -----
> *From:* Zack Clobes <zclobes@...>
> *To:* Group GPSL <GPSL@yahoogroups.com>
> *Sent:* Monday, April 19, 2010 8:52 PM
> *Subject:* [GPSL] USB to 232 adapter showing up as mouse?
>
>
>
> I'm having a problem, and I *think* I've narrowed it down as follows.
>
> 1. Fire up the GPS - 4800 baud NMEA
> 2. Plug GPS into USB-232 adapter
> 3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
> 4. The cursor will randomly jump around the screen, occasionally clicking
> on things.
>
>
> Tonight I noticed under Devices, it was actually showing one of my USB
> adapters as a mouse on Com6. I can still open the Com port in a terminal
> program correctly, it just messes with the otherwise tired mind.
>
> Has anyone else run into this or know of a solution?
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>
>

6839. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 15:04:08 UTC
From: Bruce
Topic: 6829 Message: 6839

Hi Keith

You could open Device Manager and watch what port appears when you plug it in, but that's a pretty clumsy way. I've often looked around for a quick and simple "show me my ports" utility but have never found anything I liked. BGIinfo will work but it works by redrawing your wallpaper so that's not always the best solution either.

Sorry, no bright ideas here today.

73, Bruce

From: Keith Kaiser
Sent: Tuesday, April 20, 2010 7:52 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] USB to 232 adapter showing up as mouse?

Hey Bruce, Since you seem to know these kind of things maybe you can tell me how to tell what comm port is actually in use when I plug something into a USB port. I often plug in my Garmin GPS and am asked by the program what com port it is. If Windows doesn't know how the heck do I?

On Apr 20, 2010, at 2:27 AM, Bruce Coates wrote:

Hi Zack

Although the Microsoft utility to disable serial mouse detection mentioned in other posts will work, you have to apply it to every serial port. As you may have noticed, you each time you insert a USB-Serial device into a different port it can be detected as a different comm port, depending on what else is already installed. The best way I've found is to disable the serial mouse service entirely. Unfortunately it's hidden from the Services MMC snapin so you have to disable it via the registry.

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SerMouse
Change the value "Start" from 3 to 4

The only real drawback is that you can never use a serial mouse on your machine.

73, Bruce - VE5BNC

----- Original Message -----
From: Zack Clobes
To: Group GPSL
Sent: Monday, April 19, 2010 8:52 PM
Subject: [GPSL] USB to 232 adapter showing up as mouse?

I'm having a problem, and I think I've narrowed it down as follows.

1. Fire up the GPS - 4800 baud NMEA
2. Plug GPS into USB-232 adapter
3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
4. The cursor will randomly jump around the screen, occasionally clicking on things.

Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.

Has anyone else run into this or know of a solution?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6840. Re: [GPSL] USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 15:57:22 UTC
From: Keith Kaiser
Topic: 6829 Message: 6840

This is Windblows, not called that for just no reason.

Lets change the question a little. I'm running a Windows app in Wine on my Mac. Has anyone any idea how to use the com ports this way?

On Apr 20, 2010, at 10:04 AM, Bruce wrote:

>
> Hi Keith
>
> You could open Device Manager and watch what port appears when you plug it in, but that's a pretty clumsy way. I've often looked around for a quick and simple "show me my ports" utility but have never found anything I liked. BGIinfo will work but it works by redrawing your wallpaper so that's not always the best solution either.
>
> Sorry, no bright ideas here today.
>
> 73, Bruce
>
> From: Keith Kaiser
> Sent: Tuesday, April 20, 2010 7:52 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] USB to 232 adapter showing up as mouse?
>
>
> Hey Bruce, Since you seem to know these kind of things maybe you can tell me how to tell what comm port is actually in use when I plug something into a USB port. I often plug in my Garmin GPS and am asked by the program what com port it is. If Windows doesn't know how the heck do I?
>
>
>
> On Apr 20, 2010, at 2:27 AM, Bruce Coates wrote:
>
>>
>>
>> Hi Zack
>>
>> Although the Microsoft utility to disable serial mouse detection mentioned in other posts will work, you have to apply it to every serial port. As you may have noticed, you each time you insert a USB-Serial device into a different port it can be detected as a different comm port, depending on what else is already installed. The best way I've found is to disable the serial mouse service entirely. Unfortunately it's hidden from the Services MMC snapin so you have to disable it via the registry.
>>
>> HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SerMouse

>> Change the value "Start" from 3 to 4
>>
>> The only real drawback is that you can never use a serial mouse on your machine.
>>
>> 73, Bruce - VE5BNC
>>
>> ----- Original Message -----
>> From: Zack Clobes
>> To: Group GPSL
>> Sent: Monday, April 19, 2010 8:52 PM
>> Subject: [GPSL] USB to 232 adapter showing up as mouse?
>>
>>
>> I'm having a problem, and I think I've narrowed it down as follows.
>>
>> 1. Fire up the GPS - 4800 baud NMEA
>> 2. Plug GPS into USB-232 adapter
>> 3. Plug USB adapter into PC (Win Vista or 7, 32 bit)
>> 4. The cursor will randomly jump around the screen, occasionally clicking on things.
>>
>>
>> Tonight I noticed under Devices, it was actually showing one of my USB adapters as a mouse on Com6. I can still open the Com port in a terminal program correctly, it just messes with the otherwise tired mind.
>>
>> Has anyone else run into this or know of a solution?
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
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6841. Re: USB to 232 adapter showing up as mouse?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 18:30:25 UTC
From: n1ltv
Topic: 6829 Message: 6841

> Microsoft actually made a tool for the first three OS's mentioned...

David,

Thanks for mentioning this tool. I'm going to try using it
to restore com port operation on a PCI multi serial port card.

Nothing to do with false mouse recognition issues, it was more
to do with a situation I ran into where devices were being
assigned higher and higher port numbers due to "phantom" devices holding down lower
numbered ports that in reality were
unoccupied and available.

The higher number ports couldn't be accessed with certain
programs, so I followed a procedure found on the internet
that was supposed to remove the phantom port assignments to
make room for WIN2000 to add devices to the properly available
lower port numbers.

I ended up after all this with no serial ports being accessible
at all instead of three, 2 on the card and one on the MB.

Hank

6842. Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 19:40:04 UTC
From: natewac@aol.com
Topic: 6832 Message: 6842

This is what I use for satellites and ISS. Modify to your coordinates.

http://www.heavens-above.com/?Loc=Toledo&Lat=41.664&Lng=-83.555&Alt=191&TZ=EST

-----Original Message-----
From: Bruce Coates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Mon, Apr 19, 2010 11:28 pm
Subject: Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Hi Zack

Oops. I got Project Traveler mixed up with Surfing Satellites. Very cool stuff all the same. I just wish I had the energy to build anything like this.

73, Bruce

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Monday, April 19, 2010 8:41 PM
Subject: Re: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

Not totally sure if you're referring to me or not... I was using Map Point for my custom tracking software, but ultimately decided that MP couldn't keep up with the massive amounts of stations that get hit, especially when you're connected to the iGate.

I've since switched to a hybrid offline Google-map solution.

Not sure about the performance on this Add-In... just speaking from my experience.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Apr 19, 2010 at 9:22 PM, Bruce Coates <bruce.coates@...> wrote:

Hi Joe

Looks great. I've been anxiously awaiting this since Zack demonstrated it at GPSL last year.

73, Bruce - VE5BNC

----- Original Message -----
From: jjdemeyer
To: GPSL@yahoogroups.com

Sent: Monday, April 19, 2010 6:44 PM
Subject: [GPSL] MapPoint Add In for Predicting, Tracking, Reviewing Balloon Flights

As you may recall, I discussed the development of a MapPoint Add-In, called Flight Track, for weather balloon flight prediction, tracking, and review at GPSL 2009. The Add-In is now available for download at

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download

The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm.

Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback&ContactSetUp=Feedback

Give it a try and let me know what you think!

Joe DeMeyer
www.surfingsatellites.org

6843. receiving APRS data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-20 19:51:43 UTC
From: natewac@aol.com
Topic: 6843 Message: 6843

Again I'm new with APRS. When receiving APRS data I have to get about an S3-4 signal before the data is deciphered on the computer. Is this right or should I start seeing APRS data with a weeker signal?

N8WAC

6844. Re: [GPSL] receiving APRS data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-21 00:25:58 UTC
From: Mike Manes
Topic: 6843 Message: 6844

For weak packet sigs, it's important to have your receive audio level set
properly. Open the squelch and turn off software DCD in the TNC. On a
"dead" freq, adjust receive level (typically the receiver volume control)
until the TNC DCD lamp just flickers a little.

IF you have software DCD, you can leave your squelch open. Otherwise, set the
squelch just above where it silences the receiver.

73 de Mike W5VSI

On 4/20/2010 13:51, natewac@... wrote:
>
>
>
>
> Again I'm new with APRS. When receiving APRS data I have to get about an
> S3-4 signal before the data is deciphered on the computer. Is this right
> or should I start seeing APRS data with a weeker signal?
> N8WAC
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6845. Re: [GPSL] Handheld with GPS & APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 01:02:43 UTC
From: Mike Manes
Topic: 6821 Message: 6845

Hi Don,

I didn't see any responses come back from GPSL, so I'll render my uninformed two bits: some of the EOSS trackers use the Kenwood D-7 HT with APRS/packet decoder and a port for NMEA from an external GPS. Fully configured, it will display not only the received APRS data, but also its bearing and range from your own position. Kinda handy, but pricey for an HT.

More guys use the Kenwood D-700 mobile rig, which also adds some more functionality.

I don't have either rig and rely on APRS-SA, Street Atlas and my GPS running on my laptop.

73 de Mike W5VSI

On 4/19/2010 15:39, DON FRASER wrote:
>
>
> Has anyone used any of the new handhelds with built in GPS and APRS for
> tracking a balloon?
>
> If so any comments?
>
> Don WA9WWS
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6846. Flight Prediction Validation

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 02:53:48 UTC
From: Zack Clobes
Topic: 6846 Message: 6846
Attachments: 1 described; binary payloads are missing from this source WARC

It's been a while, but Project: Traveler is ready to go again. We have a flight coming up on Saturday May 1 and I just ran the prediction using the new w3BalTrak online software (first time - I used to always do it via BalTrack).

Would someone mind validating that I chose the right options? I think all of the params can be found in the screenshot. I plugged in 13:00 for the time - I assumed that it was asking for zulu time? Does it matter? On the wind model, I chose May 1 @ 1800 UTC.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6847. Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 12:19:59 UTC
From: L. Paul Verhage
Topic: 6847 Message: 6847
Attachments: 1 described; binary payloads are missing from this source WARC

I flew my reliable RM-60 and the new Goldmine geiger counter on last weeks flight. I'm attaching a chart of the results.

The RM-60 has a mica window, so it records alphas, betas, and gammas. The Goldmine counter only detects betas and gammas.

Look at the difference. The Russian tube in the Goldmine kit is suppose to be sensitive.

--
Onwards and Upwards,
Paul

6848. Re: [GPSL] Flight Prediction Validation [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 12:31:22 UTC
From: BASE
Topic: 6846 Message: 6848

Zack,
You did fine with everything. I usually use local 24 hour time also. The time choice in the data entry is not critical to the path prediction, although it does affect the T-minus time in the output display.
Your prediction would be for a flight on Saturday May 1 at 1 pm local time with the wind predictions from Hutchinson.
Sometimes I run predictions using different weather stations along the flight path. You might run with Salina also. Of course, as we get closer you can do the 3hr slices and watch the trend in the predicted path.
Howard

--- On Wed, 4/21/10, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: [GPSL] Flight Prediction Validation [1 Attachment]
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Wednesday, April 21, 2010, 10:53 PM

[Attachment(s) from Zack Clobes included below]

It's been a while, but Project: Traveler is ready to go again. We have a flight coming up on Saturday May 1 and I just ran the prediction using the new w3BalTrak online software (first time - I used to always do it via BalTrack).

Would someone mind validating that I chose the right options? I think all of the params can be found in the screenshot. I plugged in 13:00 for the time - I assumed that it was asking for zulu time? Does it matter? On the wind model, I chose May 1 @ 1800 UTC.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler .org

6849. Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 12:46:38 UTC
From: L. Paul Verhage
Topic: 6849 Message: 6849

The Jazz HD video camera has shut itself off in three near space missions.
I suspect its ON/OFF button is being pressed at balloon burst.

I've tested a suggestion or two and have discovered the following.

It doesn't shut off in a vacuum
It doesn't shut off if you drop it (at least four feet)
It doesn't shut off if you shake it

The camera has shut off just at the point of balloon burst while it was looking up. So next flight I'm going to point the camera at the hiorizon and see what happens.

I did cut back the holder for the camera on last weeks flight, but that flight ran an hour longer than normal, so it may have failed for another reason. The zoom button was pressed when the camera was loaded into its holder, so I'll modify its holder box for additional clearance.

There should be no structure behind any of the buttons of a camera. Else you take the risk of buttons being pushed while the camera is being loaded for flight.

Also, never depend on zip ties. It appears they get brittle in the intense cold of near space.

Paul "I want to learn from someone else's mistakes" Verhage

--
Onwards and Upwards,
Paul

6850. Re: [GPSL] Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 14:04:52 UTC
From: Michael Willett
Topic: 6849 Message: 6850

On 4/22/2010 7:46 AM, L. Paul Verhage wrote:
> The Jazz HD video camera has shut itself off in three near space
> missions. I suspect its ON/OFF button is being pressed at balloon burst.
> I've tested a suggestion or two and have discovered the following.
> It doesn't shut off in a vacuum
> It doesn't shut off if you drop it (at least four feet)
> It doesn't shut off if you shake it
> The camera has shut off just at the point of balloon burst while it
> was looking up. So next flight I'm going to point the camera at the
> hiorizon and see what happens.

Burst can be pretty violent. I also had another thought about the burst itself, I imagine there is a substantial static charge at burst due to the shearing of the balloon / release of a foreign gas in such an environment, the static is likely huge up there on its own. I suspected that this might be the cause for some of us losing GPS lock. It might be worth wrapping the camera in aluminum foil to help shield the unit from the charge - ie Faraday Shield if you are sure the problem is not due to the buttons being physically pressed. I think this would be a fun experiment, sensing the level of static build up... Where do I hook up the ground wire? :)

> I did cut back the holder for the camera on last weeks flight, but
> that flight ran an hour longer than normal, so it may have failed for
> another reason. The zoom button was pressed when the camera was
> loaded into its holder, so I'll modify its holder box for additional
> clearance.

On the last ARBONET flight, the burst was so violent that it broke the camera mount. This was a mount made of light aluminum sheet metal held in place by two long screws going through the 1" thick Styrofoam base with two fender washers on the opposite side. The burst itself broke the Styrofoam and on the way down you can see the payload housing, whereas on the way up you could not.
> There should be no structure behind any of the buttons of a camera.
> Else you take the risk of buttons being pushed while the camera is
> being loaded for flight.
> Also, never depend on zip ties. It appears they get brittle in the
> intense cold of near space.

White zip ties are trash. Throw them away. :) Brittle at cold temps and brittle after only a little time in the sun. Use black UV rated zip ties, they do hold up in the cold and in UV. I used to install cell towers and microwave links, and you soon learn what zip ties are good and which are not. All of the clear/white zip ties I have tried failed in the cold or in the sun within weeks. I have black zips on these

towers that are still there after years in the Colorado sun and cold.

> Paul "I want to learn from someone else's mistakes" Verhage

Me too! :)

--Michael

K5NOT

>
> --
> Onwards and Upwards,
> Paul
>

6851. Re: [GPSL] Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 14:10:30 UTC
From: Mark Conner
Topic: 6849 Message: 6851

I have had cameras and radios shut off at ground impact (not burst, yet) where the battery compressed the spring to the point the other end broke contact briefly. I also try to make cutouts or otherwise keep any supporting material from making contact with buttons. With radios I normally turn on the "keypad lock" feature to mitigate it even more.

73 de Mark N9XTN

On Thu, Apr 22, 2010 at 07:46, L. Paul Verhage <nearsys@...> wrote:

>
>
> The Jazz HD video camera has shut itself off in three near space missions.
> I suspect its ON/OFF button is being pressed at balloon burst.
>
>
>

6852. Re: [GPSL] Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 14:23:47 UTC
From: Idle-Tyme
Topic: 6849 Message: 6852

On 4/22/2010 9:04 AM, Michael Willett wrote:
>
>
> On 4/22/2010 7:46 AM, L. Paul Verhage wrote:
>> The Jazz HD video camera has shut itself off in three near space
>> missions. I suspect its ON/OFF button is being pressed at balloon
>> burst.
>> I've tested a suggestion or two and have discovered the following.
>> It doesn't shut off in a vacuum
>> It doesn't shut off if you drop it (at least four feet)
>> It doesn't shut off if you shake it
>> The camera has shut off just at the point of balloon burst while it
>> was looking up. So next flight I'm going to point the camera at the
>> hiorizon and see what happens.
How about a timed auto shut off possibly? Have you ran the camera just
sitting on the workbench?

Also how about the battery drain? maybe just getting too low to
operate, but look fine power wise on landing? In other words, the
battery gets low enough to cause the camera to shut down, but now the
load is gone, so the battery now recovers to what seems to be a good
enough voltage?
>
> Burst can be pretty violent. I also had another thought about the
> burst itself, I imagine there is a substantial static charge at burst
> due to the shearing of the balloon / release of a foreign gas in such
> an environment, the static is likely huge up there on its own. I
> suspected that this might be the cause for some of us losing GPS lock.
> It might be worth wrapping the camera in aluminum foil to help shield
> the unit from the charge - ie Faraday Shield if you are sure the
> problem is not due to the buttons being physically pressed. I think
> this would be a fun experiment, sensing the level of static build
> up... Where do I hook up the ground wire? :)
Good thought, never thought of any static buildup and or discharge. i
wonder how far a balloon has to be to also protect from this if it is a
possibility? our balloons are at least 50 feet away on our radio only
flights,and on the video flights the balloon is as far away as possible
depending on launch conditions. always at least 100 feet and have even
come close to 300 feet.
>
> On the last ARBONET flight, the burst was so violent that it broke the
> camera mount. This was a mount made of light aluminum sheet metal held
> in place by two long screws going through the 1" thick Styrofoam base
> with two fender washers on the opposite side. The burst itself broke
> the Styrofoam and on the way down you can see the payload housing,

> whereas on the way up you could not.
We may try this on a future flight. I may have mentioned this on the list or at least to someone on the list, but how about a long shock absorber. Like a 20 foot length of latex surgical tubing below the balloon. to act as a shock absorber? When the balloon pops it takes all the forces of the nozzle going wherever it is going.

Thoughts?
>> There should be no structure behind any of the buttons of a camera.
>> Else you take the risk of buttons being pushed while the camera is
>> being loaded for flight.
>> Also, never depend on zip ties. It appears they get brittle in the
>> intense cold of near space.
>
> White zip ties are trash. Throw them away. :) Brittle at cold temps
> and brittle after only a little time in the sun. Use black UV rated
> zip ties, they do hold up in the cold and in UV. I used to install
> cell towers and microwave links, and you soon learn what zip ties are
> good and which are not. All of the clear/white zip ties I have tried
> failed in the cold or in the sun within weeks. I have black zips on
> these towers that are still there after years in the Colorado sun and
> cold.
>
>> Paul "I want to learn from someone else's mistakes" Verhage
>
> Me too! :)
>
> --Michael
>
> K5NOT
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>>
>> --
>> Onwards and Upwards,
>> Paul
>
>
>
>

6853. Re: [GPSL] Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 14:37:41 UTC
From: L. Paul Verhage
Topic: 6849 Message: 6853

On the first two videos I watched, the video ends after the same lenght of time as the balloon burst. There's no recording of the burst, so I suspect the camera is storing video onto the SD card in blocks. The camera gets shut off (at two different times) at the same time the balloon bursts.

The camera box is painted black, so it should absorb lots of solar radiation. at balloon burst the air has been warming for at least 30 minutes.

Paul

On Thu, Apr 22, 2010 at 9:23 AM, Idle-Tyme <nss@...> wrote:

> On 4/22/2010 9:04 AM, Michael Willett wrote:
>
>
>
> On 4/22/2010 7:46 AM, L. Paul Verhage wrote:
>
>
> The Jazz HD video camera has shut itself off in three near space missions.
> I suspect its ON/OFF button is being pressed at balloon burst.
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> I've tested a suggestion or two and have discovered the following.
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> The camera has shut off just at the point of balloon burst while it was
> looking up. So next flight I'm going to point the camera at the hiorizon
> and see what happens.
>
>
> How about a timed auto shut off possibly? Have you ran the camera just
> sitting on the workbench?
>
> Also how about the battery drain? maybe just getting too low to operate,
> but look fine power wise on landing? In other words, the battery gets low
> enough to cause the camera to shut down, but now the load is gone, so the
> battery now recovers to what seems to be a good enough voltage?
>
>
> Burst can be pretty violent. I also had another thought about the burst
> itself, I imagine there is a substantial static charge at burst due to the
> shearing of the balloon / release of a foreign gas in such an environment,

> the static is likely huge up there on its own. I suspected that this might
> be the cause for some of us losing GPS lock. It might be worth wrapping the
> camera in aluminum foil to help shield the unit from the charge - ie Faraday
> Shield if you are sure the problem is not due to the buttons being
> physically pressed. I think this would be a fun experiment, sensing the
> level of static build up... Where do I hook up the ground wire? :)
>
> Good thought, never thought of any static buildup and or discharge. i
> wonder how far a balloon has to be to also protect from this if it is a
> possibility? our balloons are at least 50 feet away on our radio only
> flights,and on the video flights the balloon is as far away as possible
> depending on launch conditions. always at least 100 feet and have even come
> close to 300 feet.
>
>
> On the last ARBONET flight, the burst was so violent that it broke the
> camera mount. This was a mount made of light aluminum sheet metal held in
> place by two long screws going through the 1" thick Styrofoam base with two
> fender washers on the opposite side. The burst itself broke the Styrofoam
> and on the way down you can see the payload housing, whereas on the way up
> you could not.
>
> We may try this on a future flight. I may have mentioned this on the list
> or at least to someone on the list, but how about a long shock absorber.
> Like a 20 foot length of latex surgical tubing below the balloon. to act as
> a shock absorber? When the balloon pops it takes all the forces of the
> nozzle going wherever it is going.
>
> Thoughts?
>
>
> There should be no structure behind any of the buttons of a camera. Else
> you take the risk of buttons being pushed while the camera is being loaded
> for flight.
>
> Also, never depend on zip ties. It appears they get brittle in the intense
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>
>
> White zip ties are trash. Throw them away. :) Brittle at cold temps and
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> the sun within weeks. I have black zips on these towers that are still there
> after years in the Colorado sun and cold.
>
>
> Paul "I want to learn from someone else's mistakes" Verhage
>

>
> Me too! :)
>
> --Michael
>
> K5NOT
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> --
> Onwards and Upwards,
> Paul
>
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--
Onwards and Upwards,
Paul

6854. Re: [GPSL] Geiger Counter Experiment [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 18:06:00 UTC
From: BASE
Topic: 6847 Message: 6854

Paul,
Geiger counters are essentially ionization event detectors. They don't care what the particle is, as long as it passes through the tube. The mica window for alpha detection is only valid for low energy alphas. High energy alphas can easily penetrate the metal enclosure around the gas-filled tube. In near space there are many energetic particles that enter the tube from all directions.
Based on the specifications the Goldmine tube is 97 mm long and 10 mm in diameter. The RM-60 tube is 38 mm long and 9 mm in diameter. The collection volume of the Goldmine is roughly three times the RM-60. This would lead us to expect three times the signal.
All of your data seems typical as to the count rate versus altitude. Your RM-60 data looks like what we have also seen in single tubes on our many flights. The Goldmine data is essentially 6 times the RM-60. We can find a factor of three from the volume. There is still a factor of two to be explained.
Howard

--- On Thu, 4/22/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Geiger Counter Experiment [1 Attachment]
To: gpsl@yahoogroups.com
Date: Thursday, April 22, 2010, 8:19 AM

[Attachment(s) from L. Paul Verhage included below]

I flew my reliable RM-60 and the new Goldmine geiger counter on last weeks flight. I'm attaching a chart of the results.

The RM-60 has a mica window, so it records alphas, betas, and gammas. The Goldmine counter only detects betas and gammas.

Look at the difference. The Russian tube in the Goldmine kit is suppose to be sensitive.

--
Onwards and Upwards,
Paul

6855. Re: [GPSL] Jazz Video Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 18:43:09 UTC
From: Mike Manes
Topic: 6849 Message: 6855

Hi Paul,

It's possible that the camera has an accelerometer that keeps it from shooting if it's being jerked around, creating blurry image. And it's also possible that it's getting chilled out due to forced convective cooling that normally occurs during the high velocity post-burst descent rate. Painting the enclosure black may actually cause the internal temperature to become lower than if it were white due to radiative heat transfer, depending on its IR emissivity (some paints that look black in the visible spectrum are actually quite reflective in the IR. Carbon black pigment is a great black body with near-unity emissivity & absorbtivity). Radiative heat transfer probably dominates at 100K', at least during ascent, since air density is too low to provide much convection.

73 de Mike W5VSI

On 4/22/2010 08:37, L. Paul Verhage wrote:
>
>
> On the first two videos I watched, the video ends after the same lenght
> of time as the balloon burst. There's no recording of the burst, so I
> suspect the camera is storing video onto the SD card in blocks. The
> camera gets shut off (at two different times) at the same time the
> balloon bursts.
> The camera box is painted black, so it should absorb lots of solar
> radiation. at balloon burst the air has been warming for at least 30
> minutes.
> Paul
>
> On Thu, Apr 22, 2010 at 9:23 AM, Idle-Tyme <nss@...
> <mailto:nss@...>> wrote:
>
> On 4/22/2010 9:04 AM, Michael Willett wrote:
>>
>>
>> On 4/22/2010 7:46 AM, L. Paul Verhage wrote:
>>> The Jazz HD video camera has shut itself off in three near space
>>> missions. I suspect its ON/OFF button is being pressed at
>>> balloon burst.
>>> I've tested a suggestion or two and have discovered the following.
>>> It doesn't shut off in a vacuum
>>> It doesn't shut off if you drop it (at least four feet)
>>> It doesn't shut off if you shake it
>>> The camera has shut off just at the point of balloon burst while
>>> it was looking up. So next flight I'm going to point the

>>> camera at the hiorizon and see what happens.
> How about a timed auto shut off possibly? Have you ran the camera
> just sitting on the workbench?
>
> Also how about the battery drain? maybe just getting too low to
> operate, but look fine power wise on landing? In other words, the
> battery gets low enough to cause the camera to shut down, but now
> the load is gone, so the battery now recovers to what seems to be a
> good enough voltage?
>
>>
>> Burst can be pretty violent. I also had another thought about the
>> burst itself, I imagine there is a substantial static charge at
>> burst due to the shearing of the balloon / release of a foreign
>> gas in such an environment, the static is likely huge up there on
>> its own. I suspected that this might be the cause for some of us
>> losing GPS lock. It might be worth wrapping the camera in aluminum
>> foil to help shield the unit from the charge - ie Faraday Shield
>> if you are sure the problem is not due to the buttons being
>> physically pressed. I think this would be a fun experiment,
>> sensing the level of static build up... Where do I hook up the
>> ground wire? :)
> Good thought, never thought of any static buildup and or
> discharge. i wonder how far a balloon has to be to also protect
> from this if it is a possibility? our balloons are at least 50 feet
> away on our radio only flights,and on the video flights the balloon
> is as far away as possible depending on launch conditions. always at
> least 100 feet and have even come close to 300 feet.
>
>>
>> On the last ARBONET flight, the burst was so violent that it broke
>> the camera mount. This was a mount made of light aluminum sheet
>> metal held in place by two long screws going through the 1" thick
>> Styrofoam base with two fender washers on the opposite side. The
>> burst itself broke the Styrofoam and on the way down you can see
>> the payload housing, whereas on the way up you could not.
> We may try this on a future flight. I may have mentioned this on
> the list or at least to someone on the list, but how about a long
> shock absorber. Like a 20 foot length of latex surgical tubing
> below the balloon. to act as a shock absorber? When the balloon
> pops it takes all the forces of the nozzle going wherever it is going.
>
> Thoughts?
>>> There should be no structure behind any of the buttons of a
>>> camera. Else you take the risk of buttons being pushed while the
>>> camera is being loaded for flight.
>>> Also, never depend on zip ties. It appears they get brittle in
>>> the intense cold of near space.
>>
>> White zip ties are trash. Throw them away. :) Brittle at cold

>> temps and brittle after only a little time in the sun. Use black
>> UV rated zip ties, they do hold up in the cold and in UV. I used
>> to install cell towers and microwave links, and you soon learn
>> what zip ties are good and which are not. All of the clear/white
>> zip ties I have tried failed in the cold or in the sun within
>> weeks. I have black zips on these towers that are still there
>> after years in the Colorado sun and cold.
>>
>>> Paul "I want to learn from someone else's mistakes" Verhage
>>
>> Me too! :)
>>
>> --Michael
>>
>> K5NOT
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>>> --
>>> Onwards and Upwards,
>>> Paul
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> --
> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6856. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 18:50:27 UTC
From: Mike Manes
Topic: 6847 Message: 6856

Is the flattening out of the Goldmine counts between 50K' and 100K' typical?
The RM-80 data appears to peak out around 70K'.
Might there be some corona discharge on the Goldmine device?
73 de Mike W5VSI

On 4/22/2010 12:06, BASE wrote:
>
>
> Paul,
>
> Geiger counters are essentially ionization event detectors. They don't
> care what the particle is, as long as it passes through the tube. The
> mica window for alpha detection is only valid for low energy alphas.
> High energy alphas can easily penetrate the metal enclosure around the
> gas-filled tube. In near space there are many energetic particles that
> enter the tube from all directions.
>
> Based on the specifications the Goldmine tube is 97 mm long and 10 mm in
> diameter. The RM-60 tube is 38 mm long and 9 mm in diameter. The
> collection volume of the Goldmine is roughly three times the RM-60. This
> would lead us to expect three times the signal.
>
> All of your data seems typical as to the count rate versus altitude.
> Your RM-60 data looks like what we have also seen in single tubes on our
> many flights. The Goldmine data is essentially 6 times the RM-60. We can
> find a factor of three from the volume. There is still a factor of two
> to be explained.
>
> Howard
>
> --- On *Thu, 4/22/10, L. Paul Verhage /<nearsys@...>/* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] Geiger Counter Experiment [1 Attachment]
> To: gpsl@yahoogroups.com
> Date: Thursday, April 22, 2010, 8:19 AM
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> I flew my reliable RM-60 and the new Goldmine geiger counter on last
> weeks flight. I'm attaching a chart of the results.
> The RM-60 has a mica window, so it records alphas, betas, and
> gammas. The Goldmine counter only detects betas and gammas.
> Look at the difference. The Russian tube in the Goldmine kit is
> suppose to be sensitive.
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Mike Manes mrmanes@... Tel: 303-979-4899
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6857. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 18:54:50 UTC
From: L. Paul Verhage
Topic: 6847 Message: 6857

I've pumped the goldmine GC down and verified the corona discahrge was stopped. Let me try pumping it down again and see if it has failed after this flight.

The drop in cosmic rays should have occured around 62,000 feet, so the RM-60 looks pretty typical.

On Thu, Apr 22, 2010 at 1:50 PM, Mike Manes <mrmanes@...> wrote:

> Is the flattening out of the Goldmine counts between 50K' and 100K'
> typical?
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> Might there be some corona discharge on the Goldmine device?
> 73 de Mike W5VSI
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6858. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 19:28:56 UTC
From: BASE
Topic: 6847 Message: 6858

Mike and Paul,
The flattening is unusual. Perhaps the counter is reaching the limit for the tube or counting circuit.
As for the elevation for maximum counts, we have seen variations throughout our flights. It is not possible to conclusively say that the maximum occurs at a specific elevation. We don't have enough data to draw definitive conclusions. It may be as simple as the explanation for the seasonal variation in the altitude of the tropopause.

Howard
--- On Thu, 4/22/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Geiger Counter Experiment
To: GPSL@yahoogroups.com
Date: Thursday, April 22, 2010, 2:54 PM

I've pumped the goldmine GC down and verified the corona discahrge was stopped. Let me try pumping it down again and see if it has failed after this flight.

The drop in cosmic rays should have occured around 62,000 feet, so the RM-60 looks pretty typical.

On Thu, Apr 22, 2010 at 1:50 PM, Mike Manes <mrmanes@gmail. com> wrote:

Is the flattening out of the Goldmine counts between 50K' and 100K' typical?
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Might there be some corona discharge on the Goldmine device?
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>   Onwards and Upwards,

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Yahoo! Groups Links

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   http://groups. yahoo.com/ group/GPSL/ join
   (Yahoo! ID required)

   GPSL-fullfeatured@ yahoogroups. com

http://docs. yahoo.com/ info/terms/

--
Onwards and Upwards,
Paul

6859. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 19:37:14 UTC
From: L. Paul Verhage
Topic: 6847 Message: 6859

Variations in the hieght of the tropo ought to have an effect, since it changes air density and therefore the density of atoms cosmic rays collide with. I too have seen changes in the altitude of the maxuimum cosmic ray flux. There's a name for it (named after someone) but I don't recall it.

The counting circuit is a BASIC Stamp. Using the COUNT command, it should be able to detect pulses at a resolution of something like 2, 4, or 6 microseconds (its time base is 2 usec, but it will take several clock pulses to increment the counter after each pulse).

Paul

On Thu, Apr 22, 2010 at 2:28 PM, BASE <basedepauw@...> wrote:

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> Subject: Re: [GPSL] Geiger Counter Experiment
> To: GPSL@yahoogroups.com
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> > wrote:
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>> ------------ --------- --------- ------
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>> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6860. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-22 20:40:09 UTC
From: BASE
Topic: 6847 Message: 6860

Paul,
It is the Pfotzer maximum. Georg Pfotzer had a lengthy career as an atmospheric scientist in Germany. Early article in Nature in 1934 with Erich Regener -balloon carried a Geiger counter to 28 km! Finished his career as director of the Max Planck Institute in 1977.
Could you input a simple pulse generator to the BASIC Stamp. Based on the data from the Goldmine, if the Stamp handles a pulse rate of more than 100 Hz would indicate that it was not a counter problem.
Howard

--- On Thu, 4/22/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Geiger Counter Experiment
To: GPSL@yahoogroups.com
Date: Thursday, April 22, 2010, 3:37 PM

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Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

6861. Re: [Balloonatics] New member - Southern California

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 03:11:41 UTC
From: Mike Manes
Topic: 6861 Message: 6861

Hi John,

It's tough to tell what balloon you have from just a diameter spec. Do you have a make & model? From LiftWin, I checked Kaysam and Totex 30 gm balloons, and found the two makes differ from 2.9 ft to 9 ft in burst diameter - and that makes a lot of difference in peak altitude!

Assuming it's a Kaysam with a 9 ft burst diameter, then 11 cuft of He will fill it to 2.8 ft diameter with 0.6 lb of neck lift. This would carry a 0.1 lb (45 gm) payload to about 30,000 ft MSL, where it gets pretty chilly outside - cold enough that your simple LC oscillator xmtr is very likely to drift, if not conk out entirely. And it may also travel several tens of miles downrange - past where it could be heard from the launch site even with a gain antenna and quiet receiver.

So I'd rate your chances at recovery as pretty low.

You might consider using one of the APRS beacons that many of the the other groups use, like a TinyTrak or MicroTrak.

73 de Mike W5VSI

On 4/22/2010 16:52, arclight762 wrote:
> Hi all,
>
> I'm new to the site, and thought I'd check in. My interest in high-altitude ballooning has resurfaced due to several recent events:
>
> 1. We bought out an old machinist's stuff for $200, and ended up with a full 80ft^3 He tank for the shop.
>
> 2. I'm on a Search& Rescue team that practices ELT/PLB transmitter hunting. We've recently been helping out an amateur rocket group with tracking.
>
> 3. The infamous Toshiba "Red Chair" commercial reminded me that point and shoot cameras can do some cool stuff.
>
> This weekend, we are going out to the Mojave Desert to help with the rocket again. I have secured a 36" balloon and scrounged up enough parts around the shop to build a ~30gm transmitter beacon similar to this one:
>
> http://www.thefintels.com/aer/fm.htm
>
> I'm thinking I should start with this ~$20 launch to get my feet wet.
>
> Cheers,

>
> John
> KF6DPJ
>
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>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6862. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 12:29:59 UTC
From: L. Paul Verhage
Topic: 6847 Message: 6862

I've watched the geiger counter operate on an o'scope (20 MHz). For every cosmic ray it detects, it produces 5 or 6 pulses due to the high voltage square wave it gets energiezed with. The BASIC Stamp shows this effect. On my YouTube channel, there's a video of this.

So the Stamp is counting the pulses.

I wonder if the tube is false triggering? Could something other than radiation cause it to trigger?

Paul

On Thu, Apr 22, 2010 at 3:40 PM, BASE <basedepauw@...> wrote:

>
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> Paul,
>
> It is the Pfotzer maximum. Georg Pfotzer had a lengthy career as an
> atmospheric scientist in Germany. Early article in Nature in 1934 with
> Erich Regener -balloon carried a Geiger counter to 28 km! Finished his
> career as director of the Max Planck Institute in 1977.
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> Could you input a simple pulse generator to the BASIC Stamp. Based on the
> data from the Goldmine, if the Stamp handles a pulse rate of more than 100
> Hz would indicate that it was not a counter problem.
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> Howard
>
> --- On *Thu, 4/22/10, L. Paul Verhage <nearsys@...>* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: Re: [GPSL] Geiger Counter Experiment
> To: GPSL@yahoogroups.com
> Date: Thursday, April 22, 2010, 3:37 PM
>
>
>
>
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> Variations in the hieght of the tropo ought to have an effect, since it
> changes air density and therefore the density of atoms cosmic rays collide
> with. I too have seen changes in the altitude of the maxuimum cosmic ray
> flux. There's a name for it (named after someone) but I don't recall it.
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> The counting circuit is a BASIC Stamp. Using the COUNT command, it should

> be able to detect pulses at a resolution of something like 2, 4, or 6
> microseconds (its time base is 2 usec, but it will take several clock pulses
> to increment the counter after each pulse).
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> On Thu, Apr 22, 2010 at 2:28 PM, BASE <basedepauw@yahoo.
com<http://mc/compose?to=basedepauw@...>
> > wrote:
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>> Mike and Paul,
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>> The flattening is unusual. Perhaps the counter is reaching the limit for
>> the tube or counting circuit.
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>> As for the elevation for maximum counts, we have seen variations
>> throughout our flights. It is not possible to conclusively say that the
>> maximum occurs at a specific elevation. We don't have enough data to draw
>> definitive conclusions. It may be as simple as the explanation for the
>> seasonal variation in the altitude of the tropopause.
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>> Howard
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com<http://mc/compose?to=nearsys@...>
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>>
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>> From: L. Paul Verhage <nearsys@gmail. com<http://mc/compose?to=nearsys@...>
>> >
>> Subject: Re: [GPSL] Geiger Counter Experiment
>> To: GPSL@yahoogroups. com <http://mc/compose?to=GPSL@yahoogroups.com>
>> Date: Thursday, April 22, 2010, 2:54 PM
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>> I've pumped the goldmine GC down and verified the corona discahrge was
>> stopped. Let me try pumping it down again and see if it has failed after
>> this flight.
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>> The drop in cosmic rays should have occured around 62,000 feet, so the
>> RM-60 looks pretty typical.
>>
>> On Thu, Apr 22, 2010 at 1:50 PM, Mike Manes <mrmanes@gmail.
com<http://mc/compose?to=mrmanes@...>
>> > wrote:
>>
>>> Is the flattening out of the Goldmine counts between 50K' and 100K'

>>> typical?
>>> The RM-80 data appears to peak out around 70K'.
>>> Might there be some corona discharge on the Goldmine device?
>>> 73 de Mike W5VSI
>>>
>>> On 4/22/2010 12:06, BASE wrote:
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>>> > Paul,
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>>> > Geiger counters are essentially ionization event detectors. They don't
>>> > care what the particle is, as long as it passes through the tube. The
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>>> > High energy alphas can easily penetrate the metal enclosure around the
>>> > gas-filled tube. In near space there are many energetic particles that
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>>> > All of your data seems typical as to the count rate versus altitude.
>>> > Your RM-60 data looks like what we have also seen in single tubes on
>>> our
>>> > many flights. The Goldmine data is essentially 6 times the RM-60. We
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>>> > find a factor of three from the volume. There is still a factor of two
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com<http://mc/compose?to=nearsys@...>>/*
>>> wrote:
>>> >
>>> >
>>> > From: L. Paul Verhage <nearsys@gmail. com<http://mc/compose?to=nearsys@...>
>>> >
>>> > Subject: [GPSL] Geiger Counter Experiment [1 Attachment]
>>> > To: gpsl@yahoogroups. com<http://mc/compose?to=gpsl@yahoogroups.com>
>>> > Date: Thursday, April 22, 2010, 8:19 AM
>>> >
>>> > I flew my reliable RM-60 and the new Goldmine geiger counter on
>>> last
>>> > weeks flight. I'm attaching a chart of the results.
>>> > The RM-60 has a mica window, so it records alphas, betas, and
>>> > gammas. The Goldmine counter only detects betas and gammas.

>>> > Look at the difference. The Russian tube in the Goldmine kit is
>>> > suppose to be sensitive.
>>> >
>>> > --
>>> > Onwards and Upwards,
>>> > Paul
>>> >
>>> >
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>>> >
>>>
>>> --
>>> Mike Manes mrmanes@gmail. com<http://mc/compose?to=mrmanes@...> Tel: 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
>>>
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>>> ------------ --------- --------- ------
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>>> Yahoo! Groups Links
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Onwards and Upwards,
Paul

6863. Jazz Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 12:59:59 UTC
From: L. Paul Verhage
Topic: 6863 Message: 6863

I shook and dropped the Jazz while it was recording. shaking didn't do anything. However, on two of several drops, I got the camera to shut off.

I need to take a closer look and see if I accidentally hit the ON/OFF button when I caught it.

I've dropped it before while it was turned on, but not recording, and didn't see it shut off.

--
Onwards and Upwards,
Paul

6864. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 16:11:17 UTC
From: BASE
Topic: 6847 Message: 6864

Paul,
The multiple pulses per ionizing event could be a problem. I've forgotten how you compensated for those in your data collection/analysis (i.e, where do you account for the multiplicity?). Nevertheless, it would be interesting to see how your SBM-20 circuit functions in a higher radiation environment.
Combining the tripling of count rate for the SBM-20's volume compared to the RM-60 and the five or six fold multiplication for pulses per event, I would expect an even higher count rate at the Pfotzer maximum (9000 or more cpm).
If nothing else, perhaps I can find a source to bring with me to the GPSL in Hutchinson.
Howard
--- On Fri, 4/23/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@gmail.com>
Subject: Re: [GPSL] Geiger Counter Experiment
To: GPSL@yahoogroups.com
Date: Friday, April 23, 2010, 8:29 AM

I've watched the geiger counter operate on an o'scope (20 MHz). For every cosmic ray it detects, it produces 5 or 6 pulses due to the high voltage square wave it gets energiezed with. The BASIC Stamp shows this effect. On my YouTube channel, there's a video of this.

So the Stamp is counting the pulses.

I wonder if the tube is false triggering? Could something other than radiation cause it to trigger?

Paul

On Thu, Apr 22, 2010 at 3:40 PM, BASE <basedepauw@yahoo. com> wrote:

Paul,

It is the Pfotzer maximum. Georg Pfotzer had a lengthy career as an atmospheric scientist in Germany. Early article in Nature in 1934 with Erich Regener -balloon carried a Geiger counter to 28 km! Finished his career as director of the Max Planck Institute in 1977.

Could you input a simple pulse generator to the BASIC Stamp. Based on the data from the Goldmine, if the Stamp handles a pulse rate of more than 100 Hz would indicate that it was not a counter problem.

Howard

--- On Thu, 4/22/10, L. Paul Verhage <nearsys@gmail. com> wrote:

From: L. Paul Verhage <nearsys@gmail. com>
Subject: Re: [GPSL] Geiger Counter Experiment
To: GPSL@yahoogroups. com

Date: Thursday, April 22, 2010, 3:37 PM

Variations in the hieght of the tropo ought to have an effect, since it changes air density and therefore the density of atoms cosmic rays collide with. I too have seen changes in the altitude of the maxuimum cosmic ray flux. There's a name for it (named after someone) but I don't recall it.

The counting circuit is a BASIC Stamp. Using the COUNT command, it should be able to detect pulses at a resolution of something like 2, 4, or 6 microseconds (its time base is 2 usec, but it will take several clock pulses to increment the counter after each pulse).

Paul

On Thu, Apr 22, 2010 at 2:28 PM, BASE <basedepauw@yahoo. com> wrote:

Mike and Paul,

The flattening is unusual. Perhaps the counter is reaching the limit for the tube or counting circuit.

As for the elevation for maximum counts, we have seen variations throughout our flights. It is not possible to conclusively say that the maximum occurs at a specific elevation. We don't have enough data to draw definitive conclusions. It may be as simple as the explanation for the seasonal variation in the altitude of the tropopause.

Howard
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Subject: Re: [GPSL] Geiger Counter Experiment
To: GPSL@yahoogroups. com

Date: Thursday, April 22, 2010, 2:54 PM

I've pumped the goldmine GC down and verified the corona discahrge was stopped. Let me try pumping it down again and see if it has failed after this flight.

The drop in cosmic rays should have occured around 62,000 feet, so the RM-60 looks pretty typical.

On Thu, Apr 22, 2010 at 1:50 PM, Mike Manes <mrmanes@gmail. com> wrote:

Is the flattening out of the Goldmine counts between 50K' and 100K' typical?
The RM-80 data appears to peak out around 70K'.
Might there be some corona discharge on the Goldmine device?

73 de Mike W5VSI

On 4/22/2010 12:06, BASE wrote:
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> Paul,
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> Geiger counters are essentially ionization event detectors. They don't
> care what the particle is, as long as it passes through the tube. The

> mica window for alpha detection is only valid for low energy alphas.
> High energy alphas can easily penetrate the metal enclosure around the
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> enter the tube from all directions.
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> Based on the specifications the Goldmine tube is 97 mm long and 10 mm in
> diameter. The RM-60 tube is 38 mm long and 9 mm in diameter. The
> collection volume of the Goldmine is roughly three times the RM-60. This

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> to be explained.
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>
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>   From: L. Paul Verhage <nearsys@gmail. com>
>   Subject: [GPSL] Geiger Counter Experiment [1 Attachment]

>   To: gpsl@yahoogroups. com
>   Date: Thursday, April 22, 2010, 8:19 AM
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>   I flew my reliable RM-60 and the new Goldmine geiger counter on last

>   weeks flight. I'm attaching a chart of the results.
>   The RM-60 has a mica window, so it records alphas, betas, and
>   gammas. The Goldmine counter only detects betas and gammas.
>   Look at the difference. The Russian tube in the Goldmine kit is

>   suppose to be sensitive.
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>
>

--
Mike Manes   mrmanes@gmail. com   Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

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Yahoo! Groups Links

   http://groups. yahoo.com/ group/GPSL/

   http://groups. yahoo.com/ group/GPSL/ join
   (Yahoo! ID required)

   GPSL-fullfeatured@ yahoogroups. com

   http://docs. yahoo.com/ info/terms/

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

6865. Goldmine Geiger counter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 16:54:20 UTC
From: L. Paul Verhage
Topic: 6865 Message: 6865
Attachments: 1 described; binary payloads are missing from this source WARC

I ran the gieger counter through the vacuum chamber. It's working fine (still). So the high counts and lack of drop off was not an artifact of corona discharge.

I've divided the counts by three to make comparing the RM-60 and Goldmine counter more valid. I'm attaching the spreadsheet.

--
Onwards and Upwards,
Paul

6866. Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 17:26:30 UTC
From: L. Paul Verhage
Topic: 6847 Message: 6866

I was noticing the variation in the counts for both detectors.

The RM-60 produces a smaller count and a narrower variation in counts (my ruler says the ratio is 3:9 at 60,000 feet).

The Goldmine detector has a higher count and a wider variation in the count rate (my ruler says 1:5.25 at 60,000 feet)

The variation in the RM-60 is 0.33 and the Goldmine is 0.19. That's a difference of about 50%.

I'll see if I can calculate what I would think is the standard deviation in the counts between the two detectors and if it changes during the mission.

--
Onwards and Upwards,
Paul

6867. Re: [GPSL] Geiger Counter Experiment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 17:32:23 UTC
From: Mike Manes
Topic: 6847 Message: 6867

The HV square wave period may be less than the plasma extinction time, and the pulses are actually measurements of the tube current. So if a 2nd, 3rd ... HV pulse comes along while the tube is still ionized, then they'll draw measurable current, and reenergize up the plasma to boot, thus exacerbating the problem. OK and perhaps preferable for audible monitoring, but it can produce the sort of high counts that maybe you're seeing.

73 de Mike W5VSI

On 4/23/2010 06:29, L. Paul Verhage wrote:
>
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> I've watched the geiger counter operate on an o'scope (20 MHz). For
> every cosmic ray it detects, it produces 5 or 6 pulses due to the high
> voltage square wave it gets energiezed with. The BASIC Stamp shows this
> effect. On my YouTube channel, there's a video of this.
> So the Stamp is counting the pulses.
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> radiation cause it to trigger?
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> Paul,
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> Could you input a simple pulse generator to the BASIC Stamp. Based
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> more than 100 Hz would indicate that it was not a counter problem.
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> <mailto:nearsys@...>>/* wrote:
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> From: L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> Subject: Re: [GPSL] Geiger Counter Experiment

> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Date: Thursday, April 22, 2010, 3:37 PM
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> <http://mc/compose?to=nearsys@...>>
> Subject: Re: [GPSL] Geiger Counter Experiment
> To: GPSL@yahoogroups. com
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> /<nearsys@gmail. com
> <http://mc/compose?to=nearsys@...>>/* wrote:
> >
> >
> > From: L. Paul Verhage <nearsys@gmail. com
> <http://mc/compose?to=nearsys@...>>
> > Subject: [GPSL] Geiger Counter Experiment [1
> Attachment]
> > To: gpsl@yahoogroups. com
> <http://mc/compose?to=gpsl@yahoogroups.com>
> > Date: Thursday, April 22, 2010, 8:19 AM
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> Mike Manes mrmanes@gmail. com
> <http://mc/compose?to=mrmanes@...> Tel:
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> "Things should be made as simple as possible, but
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> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
>
> (Yahoo! ID required)
>

> GPSL-fullfeatured@ yahoogroups. com
> <http://mc/compose?to=GPSL-fullfeatured@yahoogroups.com>
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6868. Re: [GPSL] Jazz Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 17:37:18 UTC
From: Mike Manes
Topic: 6863 Message: 6868

The inertia of the button alone could have been enough to make a contact closure without actually touching it. This could happen if the camera hit the deck on side >opposite< from the on/off button. This kinda thing happened to the fast release arming bar during a launch with slack in the lift line before I statically balanced the arm and put in a stiffer spring. Expensive lesson ...

73 de Mike W5VSI

On 4/23/2010 06:59, L. Paul Verhage wrote:
>
>
> I shook and dropped the Jazz while it was recording. shaking didn't do
> anything. However, on two of several drops, I got the camera to shut off.
> I need to take a closer look and see if I accidentally hit the ON/OFF
> button when I caught it.
> I've dropped it before while it was turned on, but not recording, and
> didn't see it shut off.
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Mike Manes mrmanes@... Tel: 303-979-4899
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6869. Re: [GPSL] Goldmine Geiger counter [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 18:24:50 UTC
From: BASE
Topic: 6865 Message: 6869

Paul,
Thanks for supplying the data file. To help me understand it, it appears that you take count data for 10 seconds and then multiply by 6 to get counts per minute. Is that a correct interpretation?
Although it is a small sample size, your count rates before launch for the Goldmine seem much higher than the 20 to 40 counts per minute that others have reported in the online literature.
Mike's comments about the HV power supply issue lead me to wonder if you are dealing with an instrumental effect.
Howard

--- On Fri, 4/23/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Goldmine Geiger counter [1 Attachment]
To: gpsl@yahoogroups.com
Date: Friday, April 23, 2010, 12:54 PM

[Attachment(s) from L. Paul Verhage included below]

I ran the gieger counter through the vacuum chamber. It's working fine (still). So the high counts and lack of drop off was not an artifact of corona discharge.

I've divided the counts by three to make comparing the RM-60 and Goldmine counter more valid. I'm attaching the spreadsheet.

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Onwards and Upwards,
Paul

6870. Fwd: RM-60 and Goldmine

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 18:29:52 UTC
From: L. Paul Verhage
Topic: 6870 Message: 6870

Mr. Boardman works for Aware Electronics. Here's his information on the geiger counters.

Paul

---------- Forwarded message ----------
From: Bryan J. Boardman / Aware Electronics Corp. <boardmanb@...>
Date: Fri, Apr 23, 2010 at 12:41 PM
Subject: Re: RM-60 and Goldmine
To: "L. Paul Verhage" <nearsys@...>

Dear Paul,

The Goldmine tube is Russian tube SBM-20. It has 1.05 times the volume of the RM-60's LND712, not 3 times the volume. The balloon group members that indicated the Goldmine tube has three times the volume where using the effective diameter of the LND712 window, which is 9.1mm, to calculate the volume but the effective diameter of the tube is 14.38mm.

SBM-20 Tube:
effective radius=5mm; effective height=83.5mm; effective volume=6558 cubic mm
Gamma sensitivity Co60 (cps/mr/hr) 22

RM-60's 712 Tube:
effective radius=7.19mm; effective height=38.1mm; effective volume=6188 cubic mm
Gamma sensitivity Co60 (cps/mr/hr) 18

I just talked with LND about the size of the 712. The above figures are correct. On LND spec. page they say in two places the effective diameter is 9.1mm but in both cases they are meaning window diameter. The effective tube diameter is as per our website 14.38mm i.e. 15.1mm outside diameter - (wall thickness 0.381 mm x 2)=14.38mm effective diameter. LND is going to add this to their spec. page to make it clear the 9.1mm is the window diameter and 14.28mm is the wall effective diameter.

http://www.aw-el.com/specs.htm
http://www.aw-el.com/tubegrap.htm

http://www.aw-el.com/russian/2398_1.gif
http://www.aw-el.com/russian/SBM-20.JPG

If all is well, the SBM-20 should generate count rates just about the same as the RM-60 (except RM-60 is more sensitive to lower energy betas and gammas as well as alphas). I have heard from several sources the russian tubes are surplus over 30 years old, many with odd problems like quench and

that perhaps the circuit used is to prevent lack of quench multi pulse or runaway pulse.

In your balloon data, notice if you multiple the RM-60 10 sec. counts by ~ 18, the curve looks the same as the russian tube 10 sec. counts i.e. before the russian tube tops out, the variation in the graph line is about the same as the variation in the RM-60 data curve times 18. This indicates there's something wrong with the russian data.

Best Regards / Bryan Boardman / Manager / Aware Electronics Corp

Web Site:
http://www.aw-el.com
E-Mail:
boardmanb@...

----- Original Message -----
From: L. Paul Verhage
To: Bryan J. Boardman / Aware Electronics Corp.
Sent: Friday, April 23, 2010 8:43 AM
Subject: Re: RM-60 and Goldmine

Mr. Boardman, one thing the balloon group has mentioned is that the Goldmine tube has three times the volume of the RM-60 tube.

Would it make sense it should detect three times the cosmic rays?

Paul

On Thu, Apr 22, 2010 at 12:57 PM, Bryan J. Boardman / Aware Electronics Corp. <boardmanb@...> wrote:

Hi Paul,

I saw your graph re RM-60 and Goldmine on the latest balloon 10A. The Goldmine data looks strange. I have learned that the tubes from Goldmine are at least over 30 years old. They look like they have old bakelite insulators on the ends. (http://en.wikipedia.org/wiki/Bakelite) I guess it is possible Goldmine gets semi-defective old tubes for even less money, that are good enough to blink their LEDs or qualitative work but not quantitative work.

I do know that old tubes can lose their quench abilities due to things like quench gas absorbing on to things like a solder blob, plastic etc., which would cause several or more pulses per detection, in a random like manner or even run-away oscillation.

Notice how at 0 altitude the Goldmine has quite a spread similar to the spread at 60,000 feet. This would indicate there is something wrong with the data.

If you would like me to look at the data and comment back to you about it, feel free to send the data to me as well as where on the schematic you

picked off the signal.

Best Regards / Bryan Boardman / Manager / Aware Electronics Corp

Web Site:
http://www.aw-el.com
E-Mail:
boardmanb@...

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

6871. Re: [GPSL] Fwd: RM-60 and Goldmine

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-23 19:17:39 UTC
From: BASE
Topic: 6870 Message: 6871

Paul,
Obviously, if you use the numbers that Mr. Boardman has you will get his results. I simply used the window dimension from the Aware website (which Mr. Boardman noted) and the Goldmine dimensions for the SBM-20 (which are evidently external numbers). The count rate is still volume dependent.
The age of the tube can contribute to the problem. Although halogen (Br2) tubes survive much better than organic vapor tubes.
I still wonder about the power supply. For fun, it would be nice to run the SBM-20 on the RM-60 power supply and the LND712 on the Goldmine supply.
Howard

--- On Fri, 4/23/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Fwd: RM-60 and Goldmine
To: gpsl@yahoogroups.com
Date: Friday, April 23, 2010, 2:29 PM

Mr. Boardman works for Aware Electronics. Here's his information on the geiger counters.

Paul

---------- Forwarded message ----------
From: Bryan J. Boardman / Aware Electronics Corp. <boardmanb@aw- el.com>

Date: Fri, Apr 23, 2010 at 12:41 PM
Subject: Re: RM-60 and Goldmine
To: "L. Paul Verhage" <nearsys@gmail. com>

Dear Paul,

The Goldmine tube is Russian tube SBM-20. It has 1.05 times the volume of the RM-60's LND712, not 3 times the volume. The balloon group members that indicated the Goldmine tube has three times the volume where using the effective diameter of the LND712 window, which is 9.1mm, to calculate the volume but the effective diameter of the tube is 14.38mm.

SBM-20 Tube:
effective radius=5mm; effective height=83.5mm; effective volume=6558 cubic mm
Gamma sensitivity Co60 (cps/mr/hr) 22

RM-60's 712 Tube:
effective radius=7.19mm; effective height=38.1mm; effective volume=6188 cubic mm

Gamma sensitivity Co60 (cps/mr/hr) 18

I just talked with LND about the size of the 712. The above figures are correct. On LND spec. page they say in two places the effective diameter is 9.1mm but in both cases they are meaning window diameter. The effective tube diameter is as per our website 14.38mm

i.e. 15.1mm outside diameter - (wall thickness 0.381 mm x 2)=14.38mm effective diameter. LND is going to add this to their spec. page to make it clear the 9.1mm is the window diameter and 14.28mm is the wall effective diameter.

http://www.aw- el.com/specs. htm
http://www.aw- el.com/tubegrap. htm

http://www.aw- el.com/russian/ 2398_1.gif
http://www.aw- el.com/russian/ SBM-20.JPG

If all is well, the SBM-20 should generate count rates just about the same as the RM-60 (except RM-60 is more sensitive to lower energy betas and gammas as well as alphas). I have heard from several sources the russian tubes are surplus over 30 years old, many with odd problems like quench and that perhaps the circuit used is to prevent lack of quench multi pulse or runaway pulse.

In your balloon data, notice if you multiple the RM-60 10 sec. counts by ~ 18, the curve looks the same as the russian tube 10 sec. counts i.e. before the russian tube tops out, the variation in the graph line is about the same as the variation in the RM-60 data curve times 18. This indicates there's something wrong with the russian data.

Best Regards / Bryan Boardman / Manager / Aware Electronics Corp

Web Site:
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To: Bryan J. Boardman / Aware Electronics Corp.
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Would it make sense it should detect three times the cosmic rays?

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I do know that old tubes can lose their quench abilities due to things like quench gas absorbing on to things like a solder blob, plastic etc., which would cause several or more

pulses per detection, in a random like manner or even run-away oscillation.

Notice how at 0 altitude the Goldmine has quite a spread similar to the spread at 60,000 feet. This would indicate there is something wrong with the data.

If you would like me to look at the data and comment back to you about it, feel free to send the data to me as well as where on the schematic you picked off the signal.

Best Regards / Bryan Boardman / Manager / Aware Electronics Corp

Web Site:
http://www.aw- el.com
E-Mail:
boardmanb@aw- el.com

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

6872. Project: Traveler flight announcement

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 02:39:06 UTC
From: Zack Clobes
Topic: 6872 Message: 6872

Traveler will be launching next Saturday May 1st from the Hutchinson airport (KHUT), in conjunction with an airport open house.

We will be flying our standard custom APRS controller board (AJ0NR-11), as well as a brand new Arduino/Inventek combination board (W0ZC-11). We will also be flying a Canon A570IS camera with the CHDK firmware. The balloon is a 1000g, total payload is just under 4lbs, and I expect a standard 1100/1200 ascent/descent.

The open house will have pancakes available starting around 7:00am, and launch preparations will start around 7:30. I anticipate an 8:30am release, although may vary significantly depending on surface conditions and the number of questions we receive from the attendees.

Initial flight predictions are showing a touchdown somewhere in the Herrington to Manhattan, KS area.

Open House Information: http://www.wellsac.com/open_house.php

Project: Traveler Site/Flight Info:
http://www.projecttraveler.org/traveler/index.php?option=com_content&view=article&id=71&Itemid=64

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6873. Been Thinking.....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 14:46:28 UTC
From: Joe
Topic: 6873 Message: 6873
Attachments: 1 described; binary payloads are missing from this source WARC

Been thinking here,

OK, we know that at sunset A Balloon looses about 10% of the daytime value of lift. (rough average number) Because it is not getting the solar energy.

So then let me confirm that a balloon inflated in the dark at night of course won't loose any true? it's already dark, but at sunrise it should gain about 10% right?

Now something strange to think about.

especially for our group that i actually have never thought about before.

When inflated inside a building, is that the same as night time filling? it's not getting any solar benefit.

And once the balloon is taken outside does it then get that added 10% gain in lift because it is now getting the solar energy gain?

How about the guys that fill FAST!!! the gas has to be super cold now. by the time it warms up are they getting a lot more lift than they actually thought they had because of the gas warming up?
Just thinking here.

Joe WB9SBD
Near Space Sciences KB9KHO
--

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http://www.idle-tyme.com

6874. Re: [GPSL] Been Thinking.....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 16:19:22 UTC
From: Keith Kaiser
Topic: 6873 Message: 6874

My head hurts!

On Apr 25, 2010, at 9:46 AM, Joe wrote:

> Been thinking here,
>
> OK, we know that at sunset A Balloon looses about 10% of the daytime value of lift. (rough average number) Because it is not getting the solar energy.
>
> So then let me confirm that a balloon inflated in the dark at night of course won't loose any true? it's already dark, but at sunrise it should gain about 10% right?
>
> Now something strange to think about.
>
> especially for our group that i actually have never thought about before.
>
> When inflated inside a building, is that the same as night time filling? it's not getting any solar benefit.
>
> And once the balloon is taken outside does it then get that added 10% gain in lift because it is now getting the solar energy gain?
>
> How about the guys that fill FAST!!! the gas has to be super cold now. by the time it warms up are they getting a lot more lift than they actually thought they had because of the gas warming up?
> Just thinking here.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
> --
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

6875. Valve

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 16:26:22 UTC
From: Joe
Topic: 6875 Message: 6875
Attachments: 1 described; binary payloads are missing from this source WARC

I lost it, but someone discovered a very small and lightweight solenoid valve that runs on like 12 VDC or similar.

where was this valve available from?

Joe
--

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6876. Re: [GPSL] Been Thinking.....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 22:45:48 UTC
From: Mike Manes
Topic: 6873 Message: 6876

Hi Joe,

On one flight, we filled before dawn, and had to wait a spell for the student payloads to get prepped. In the meantime, the sun rose and illuminated the balloon. Voila! The tare weight lifted off the deck smartly! Sure glad we had it tethered separately.

I think this has to do with possibly greater IR absorbtivity of He vs air, which also explains why ZP floaters sink at night.

73 de Mike W5VSI, EOSS

On 4/25/2010 08:46, Joe wrote:
> Been thinking here,
>
> OK, we know that at sunset A Balloon looses about 10% of the daytime
> value of lift. (rough average number) Because it is not getting the
> solar energy.
>
> So then let me confirm that a balloon inflated in the dark at night of
> course won't loose any true? it's already dark, but at sunrise it should
> gain about 10% right?
>
> Now something strange to think about.
>
> especially for our group that i actually have never thought about before.
>
> When inflated inside a building, is that the same as night time filling?
> it's not getting any solar benefit.
>
> And once the balloon is taken outside does it then get that added 10%
> gain in lift because it is now getting the solar energy gain?
>
> How about the guys that fill FAST!!! the gas has to be super cold now.
> by the time it warms up are they getting a lot more lift than they
> actually thought they had because of the gas warming up?
> Just thinking here.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
> --
>
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> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6877. BBCA U2 Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-25 23:45:39 UTC
From: Joe
Topic: 6877 Message: 6877
Attachments: 1 described; binary payloads are missing from this source WARC

James May from the awesome show "Top Gear" on BBCA is going to fly in the U2, and from the previews he gets right up there for sure. While not ballooning,, it's still in the levels we play in, and these guys from "Top Gear" are always hilarious.

It starts in less than a half hour 7 PM CDT on BBCA BBC America

Joe
--

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6878. Re: [Balloonatics] Re: New member - Southern California

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-27 21:19:07 UTC
From: Mike Manes
Topic: 6878 Message: 6878

Hi John,

Well, I'm guessing that those balloons aren't meteorlogic quality if they
didn't come with at least a mfr insert - so they may just be party balloons.
Latex met balloons have a milky appearance, unlike the nearly transparent
skin that your video shows.

From the burst diameter that you gave for the 17" bag, the closest Totex spec
I could find on LiftWin was a KCI 20, 20 gram latex, which may be where the
"20 gram balloon" title on your video came from. If that's close, then
a fill to yield 35 gm (0.077 lb) of neck lift with 20 gm (0.044 lb) neck
load, then LiftWin predicts an ascent rate of 470 fpm and burst altitude
of 34,000 ft MSL.

LiftWin 041 is downloadable from http://www.eoss.org/balsoft.htm
where you'll find guidance on running it under Windoze 98 thru 7.
It's an invaluable resource that's used by most ARHAB groups.

You may also be interested in downloading Balloon Track, a trajectory
prediction app that uses the latest measured or forecast winds aloft
models. A good forecast is invaluable to a successful recovery effort.

And I'd also recommend that you join up on the GPSL email reflector, where
a broader range of groups hang out; I've cc'ed this reply there.

73 de Mike W5VSI
CTO EOSS

On 4/26/2010 21:50, arclight762 wrote:
> The 17" and 36" balloons we got from the wholesaler in town didn't have
a name on them. I tested some of the 17" to failure with compressed air,
and they break around 25". These seem to have about 35g of lift at 17" or
so, and I was able to lift the small transmitter and a parachute (total of
around 20g) with one.
>
> I have not yet tested a 36", but I suspect that it probably breaks between
1.25 and 1.4x its diameter, as it's not that heavy and cost something like $3.
>
> I have a short video of our "mini launch" and some info on what we put
together at our shop space blog, in case anyone is interested:
>
> http://blog.shop.23b.org
>
> I definitely want to put together a reliable APRS tracker and a backup RDF beacon, as
well as get better at everything before I risk a high-dollar launch.
>
> Thanks!

>
> John
>
>
> --- In Balloonatics@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Hi John,
>>
>> It's tough to tell what balloon you have from just a diameter spec. Do
>> you have a make& model? From LiftWin, I checked Kaysam and Totex 30 gm
>> balloons, and found the two makes differ from 2.9 ft to 9 ft in burst
>> diameter - and that makes a lot of difference in peak altitude!
>>
>> Assuming it's a Kaysam with a 9 ft burst diameter, then 11 cuft of He
>> will fill it to 2.8 ft diameter with 0.6 lb of neck lift. This would
>> carry a 0.1 lb (45 gm) payload to about 30,000 ft MSL, where it gets
>> pretty chilly outside - cold enough that your simple LC oscillator
>> xmtr is very likely to drift, if not conk out entirely. And it may
>> also travel several tens of miles downrange - past where it could be
>> heard from the launch site even with a gain antenna and quiet receiver.
>>
>> So I'd rate your chances at recovery as pretty low.
>>
>> You might consider using one of the APRS beacons that many of the the
>> other groups use, like a TinyTrak or MicroTrak.
>>
>> 73 de Mike W5VSI
>>
>> On 4/22/2010 16:52, arclight762 wrote:
>>> Hi all,
>>>
>>> I'm new to the site, and thought I'd check in. My interest in high-altitude
>> ballooning has resurfaced due to several recent events:
>>>
>>> 1. We bought out an old machinist's stuff for $200, and ended up with a full
>> 80ft^3 He tank for the shop.
>>>
>>> 2. I'm on a Search& Rescue team that practices ELT/PLB transmitter hunting.
>> We've recently been helping out an amateur rocket group with tracking.
>>>
>>> 3. The infamous Toshiba "Red Chair" commercial reminded me that point and
>> shoot cameras can do some cool stuff.
>>>
>>> This weekend, we are going out to the Mojave Desert to help with the
>> rocket again. I have secured a 36" balloon and scrounged up enough parts
>> around the shop to build a ~30gm transmitter beacon similar to this one:
>>>
>>> http://www.thefintels.com/aer/fm.htm
>>>
>>> I'm thinking I should start with this ~$20 launch to get my feet wet.

>>>
>>> Cheers,
>>>
>>> John
>>> KF6DPJ
>>>
>>>
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>
>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

6879. Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:14:23 UTC
From: Luis Eduardo Pacheco
Topic: 6879 Message: 6879

In a few minutes will start the inflation of the stratospheric balloon that will carry the NCT (Nuclear Compton Telescope) developed at UC Berkley.

Watch it live here : http://stratocat.com.ar/indexe.html

Best regards
Luis Eduardo Pacheco
StratoCat - Historical recopilation project on the use of stratospheric balloons in the scientific research, the military field and the aerospace activity

6880. Re: [Ballooning] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:24:12 UTC
From: Joe
Topic: 6879 Message: 6880
Attachments: 1 described; binary payloads are missing from this source WARC

Do you know what time liftoff is supposed to be?

How about any technical details of the balloon, float altitude etc?

Joe WB9SBD
Near Space Sciences KB9KHO

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http://www.idle-tyme.com

On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
>
>
> In a few minutes will start the inflation of the stratospheric balloon
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> Best regards
> Luis Eduardo Pacheco
> StratoCat - Historical recopilation project on the use of
> stratospheric balloons in the scientific research, the military field
> and the aerospace activity
>
>
>

6881. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:34:13 UTC
From: Joe
Topic: 6879 Message: 6881
Attachments: 1 described; binary payloads are missing from this source WARC

Wow,

How many CFT/M do they fill that thing with! YIKES!!

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http://www.idle-tyme.com

On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
>
>
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> stratospheric balloons in the scientific research, the military field
> and the aerospace activity
>
>
>

6882. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:35:10 UTC
From: Joe
Topic: 6879 Message: 6882
Attachments: 1 described; binary payloads are missing from this source WARC

HE or H2?

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>
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>
>

6883. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:50:56 UTC
From: Mark Garrett
Topic: 6879 Message: 6883
Attachments: 1 described; binary payloads are missing from this source WARC

Would be nice if they had some audio to go with this, we might know what is going on.

Mark, ka9szx

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Luis Eduardo Pacheco <stratocat.iespana.es@...>; Balloonmail@...;
Ballooning@yahoogroups.com
Sent: Wed, April 28, 2010 4:35:10 PM
Subject: Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

HE or H2?

Sig
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On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
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>>StratoCat - Historical recopilation project on the use of stratospheric
>balloons in the scientific research, the military field and the
>aerospace activity
>

6884. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:55:34 UTC
From: Joe
Topic: 6879 Message: 6884
Attachments: 2 described; binary payloads are missing from this source WARC

yup

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On 4/28/2010 4:50 PM, Mark Garrett wrote:
>
> Would be nice if they had some audio to go with this, we might know
> what is going on.
>
> Mark, ka9szx
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Luis Eduardo Pacheco <stratocat.iespana.es@...>;
> Balloonmail@...; Ballooning@yahoogroups.com
> *Sent:* Wed, April 28, 2010 4:35:10 PM
> *Subject:* Re: [GPSL] Stratospheric balloon launch LIVE from Australia
> - NCT mission
>
> HE or H2?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
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>> and the aerospace activity
>

6885. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 21:56:02 UTC
From: Joe
Topic: 6879 Message: 6885
Attachments: 2 described; binary payloads are missing from this source WARC

looks like the fill tube on the right is done,

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On 4/28/2010 4:50 PM, Mark Garrett wrote:
>
> Would be nice if they had some audio to go with this, we might know
> what is going on.
>
> Mark, ka9szx
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Luis Eduardo Pacheco <stratocat.iespana.es@...>;
> Balloonmail@...; Ballooning@yahoogroups.com
> *Sent:* Wed, April 28, 2010 4:35:10 PM
> *Subject:* Re: [GPSL] Stratospheric balloon launch LIVE from Australia
> - NCT mission
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> HE or H2?
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> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
>> In a few minutes will start the inflation of the stratospheric
>> balloon that will carry the NCT (Nuclear Compton Telescope) developed
>> at UC Berkley.
>>
>> Watch it live here : http://stratocat.com.ar/indexe.html
>>
>> Best regards
>> Luis Eduardo Pacheco
>> StratoCat - Historical recopilation project on the use of
>> stratospheric balloons in the scientific research, the military field
>> and the aerospace activity
>

6886. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 22:01:56 UTC
From: Joe
Topic: 6879 Message: 6886
Attachments: 2 described; binary payloads are missing from this source WARC

video chrashed?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 4:50 PM, Mark Garrett wrote:
>
> Would be nice if they had some audio to go with this, we might know
> what is going on.
>
> Mark, ka9szx
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Luis Eduardo Pacheco <stratocat.iespana.es@...>;
> Balloonmail@...; Ballooning@yahoogroups.com
> *Sent:* Wed, April 28, 2010 4:35:10 PM
> *Subject:* Re: [GPSL] Stratospheric balloon launch LIVE from Australia
> - NCT mission
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> HE or H2?
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6887. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-28 22:07:43 UTC
From: Joe
Topic: 6879 Message: 6887
Attachments: 2 described; binary payloads are missing from this source WARC

anyone else getting video? i wanted to see that thing leave.

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6888. Any discussion regarding the use of a rubber ducky antenna on a payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 00:52:32 UTC
From: Zack Clobes
Topic: 6888 Message: 6888

I'm doing final flight testing before our Saturday launch, and ran into a situation. I believe that I have it resolved, but wondered if anyone else had done any testing.

Situation:

- Brand new design, relatively untested Controller/TNC/GPS board design.
- Radio Shack ~.25W HT with SMA-based rubber-ducky (sorry, the model number got Velcro'ed over).
- Soft foam padding packed into a cloth lunch bag/cooler (11" x 6" x 7"). There are pockets cut into the soft foam to hold the transmitter, controller, camera, etc.

The controller board has been under development for a couple of months now. I recently got the PCB back, and put the prototype board together. Signals cabled directly between the board and a Receiving KPC-3 TNC were perfect 100% copy. I attached the Radio Shack HT with a ~6" cable, and on the bench I was still receiving a ~90% copy over the air.

About a week ago, I put together the lunch box with foam, and wound up putting the transmitter and board back-to-back in a piece of foam, separated by a couple of inches. The setup actually worked pretty good considering the proximity (no lock-ups, no RFI). Again, the system worked good sitting here on the bench, maybe a little worse, but definitely > 75% copy.

I picked the bag up, and walked out into the front of the house, and hung the capsule from a tree about 5' in the air. The transmitter is now about 40' away from my base antenna, virtually line of sight. Back downstairs, my TNC receive rate has dropped down into the 20% range. If I turn PASSALL ON, I can probably recover about 60%, but many of the packets are visibly and obviously garbled.

Placing the Tx and Controller back-to-back wasn't intentional, but that's how it laid out with the camera getting in the way. Thinking that I had an RFI problem, I moved the camera to the far end of the capsule, literally stretching the interface cable tight (the same cable that I have used during all of my testing). I also slid the radio up, placing the base of the antenna above the entire Controller board. Again, in the basement next to the Rx, I get 75% copy, and outside I drop into the 20%'s.

Desperation sets in, and I rip an old 1/4 wave dipole antenna from a prior flight box, and glue it to the side of the lunch bag. I plug the SMA connector into the HT, and bingo, I'm back to >= 80% receive rates, pretty much regardless of distance. Because of houses/trees/street-layout, I don't have good line-of-sight options to test from my house, but I was able to

drive about .5 miles away and around the corner and receive >> 50% without line-of-sight conditions.

So, I'm wondering if anyone has any theories. I briefly looked at the received audio on the 'scope, and I did not see any RF or extraneous noise on the signal. I'm starting to wonder if it wasn't somehow an SWR issue. Normally the human holding the transmitter completes the bottom half of the antenna, and obviously this isn't happening inside of a lunch pail...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6889. Re: [GPSL] Any discussion regarding the use of a rubber ducky antenna on a payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 01:14:36 UTC
From: Mark Conner
Topic: 6888 Message: 6889

Offhand, I'd say your rubber duck or cable was bad. I've had situations where the copy was great on the bench or over a few feet, but degraded rapidly with distance. That would seem to indicate RF not really getting out, especially when you replaced it with a dipole and got good copy at a distance.

I use a 3-4" aluminum square in the top of the lunch cooler with a SMA bulkhead connector in the center. It's not an ideal ground plane for 2m, but seems to be enough and is better than no metal at all.

73 de Mark N9XTN

On Wed, Apr 28, 2010 at 19:52, Zack Clobes <zclobes@...> wrote:

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> situation. I believe that I have it resolved, but wondered if anyone else
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>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>
>

6890. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 01:35:05 UTC
From: Luis Eduardo Pacheco
Topic: 6879 Message: 6890
Attachments: 2 described; binary payloads are missing from this source WARC

Bad news

Apparently the launch went bad and the payload was dragged or something. It destroyed a car and broke in thousands pieces.

More to come
Best regards
Luis Eduardo Pacheco
StratoCat - Historical recopilation project on the use of stratospheric balloons in the scientific research, the military field and the aerospace activity

2010/4/28, Joe <nss@...>:
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> *From:* Joe <nss@...> <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Luis Eduardo Pacheco <stratocat.iespana.es@...><stratocat.iespana.es@...>;
> Balloonmail@interaeroleague.com; Ballooning@yahoogroups.com
> *Sent:* Wed, April 28, 2010 4:35:10 PM
> *Subject:* Re: [GPSL] Stratospheric balloon launch LIVE from Australia -
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Luis Eduardo Pacheco
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Proyecto de recopilación histórica sobre el uso de globos estratosféricos en
la investigación cientifica, el campo militar y la actividad aeroespacial

6891. Re: [GPSL] Any discussion regarding the use of a rubber ducky antenna on a payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 01:43:54 UTC
From: Zack Clobes
Topic: 6888 Message: 6891

I wouldn't dismiss the bad antenna theory, and I really don't have any way to "accurately" test a tiny rubber duck. I can say though that the S meter was showing full strength even with lousy copy.

I didn't replace or repair the cable though, and there were only two wires (ground and mic/PTT). For what it's worth, I'm not feeding power to the radio from the Controller. The radio is using its internal AA batteries.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Apr 28, 2010 at 8:14 PM, Mark Conner <mconner1@...> wrote:

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> where the copy was great on the bench or over a few feet, but degraded
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>> Zack Clobes, W0ZC

>> Project: Traveler
>> www.projecttraveler.org
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6892. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 02:10:49 UTC
From: Joe
Topic: 6879 Message: 6892
Attachments: 3 described; binary payloads are missing from this source WARC

i wonder how long after the video feed went away that this happened/

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
>
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>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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6893. RE: [GPSL] Any discussion regarding the use of a rubber ducky antenna on a payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 04:02:18 UTC
From: DON FRASER
Topic: 6888 Message: 6893

Had a similar problem with a USAFA (Air Force Academy) payload maybe 15 years ago & like you it worked great in the lab but not at any distance.

We swapped the location of the tx (to outside) and rx (to inside) and it started to work like it should. Later analysis suggested that the problem was phase jitter if you will.

Don, WA9WWS

To: GPSL@yahoogroups.com
From: zclobes@...
Date: Wed, 28 Apr 2010 20:43:54 -0500
Subject: Re: [GPSL] Any discussion regarding the use of a rubber ducky antenna on a payload?

I wouldn't dismiss the bad antenna theory, and I really don't have any way to "accurately" test a tiny rubber duck. I can say though that the S meter was showing full strength even with lousy copy.

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Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

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Placing the Tx and Controller back-to-back wasn't intentional, but that's how it laid out with the camera getting in the way. Thinking that I had an RFI problem, I moved the camera to the far end of the capsule, literally stretching the interface cable tight (the same cable that I have used during all of my testing). I also slid the radio up, placing the base of the antenna above the entire Controller board. Again, in the basement next to the Rx, I get 75% copy, and outside I drop into the 20%'s.

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Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6894. Re: [GPSL] Any discussion regarding the use of a rubber ducky antenna on a payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 04:17:34 UTC
From: Mike Manes
Topic: 6888 Message: 6894

Hi Zack,

We used to run into mysterious irreproducible stuff like that until we switched over to a wire J-pole separated from the payload enclosure with about 3 ft of RG-142. It seems that xmit RF from the antenna, or common mode RF conducted up the feedline, was getting into the sensitive bits inside the payload (analog stuff and a 3V uP most likely). This was discovered by observing that the problem disappeared when the antenna was replaced with well-shielded dummy load.

73 de Mike W5VSI

On 4/28/2010 18:52, Zack Clobes wrote:
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> now about 40' away from my base antenna, virtually line of sight. Back
> downstairs, my TNC receive rate has dropped down into the 20% range. If
> I turn PASSALL ON, I can probably recover about 60%, but many of the
> packets are visibly and obviously garbled.
>
> Placing the Tx and Controller back-to-back wasn't intentional, but
> that's how it laid out with the camera getting in the way. Thinking
> that I had an RFI problem, I moved the camera to the far end of the
> capsule, literally stretching the interface cable tight (the same cable
> that I have used during all of my testing). I also slid the radio up,
> placing the base of the antenna above the entire Controller board.
> Again, in the basement next to the Rx, I get 75% copy, and outside I
> drop into the 20%'s.
>
>
>
>
> Desperation sets in, and I rip an old 1/4 wave dipole antenna from a
> prior flight box, and glue it to the side of the lunch bag. I plug the
> SMA connector into the HT, and bingo, I'm back to >= 80% receive rates,
> pretty much regardless of distance. Because of
> houses/trees/street-layout, I don't have good line-of-sight options to
> test from my house, but I was able to drive about .5 miles away and
> around the corner and receive >> 50% without line-of-sight conditions.
>
>
> So, I'm wondering if anyone has any theories. I briefly looked at the
> received audio on the 'scope, and I did not see any RF or extraneous
> noise on the signal. I'm starting to wonder if it wasn't somehow an SWR
> issue. Normally the human holding the transmitter completes the bottom
> half of the antenna, and obviously this isn't happening inside of a
> lunch pail...
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6895. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 04:22:47 UTC
From: Mike Manes
Topic: 6879 Message: 6895

Ugh. Shades of EOSS-5(?) - our first experience with a plastic balloon
and high winds :=(. Fortunately, no cars were harmed, and only a few
pieces broke free when the payload was dragged across a parking lot
before striking a snow bank.

73 de Mike W5VSI

On 4/28/2010 19:35, Luis Eduardo Pacheco wrote:
>
>
> Bad news
>
> Apparently the launch went bad and the payload was dragged or something.
> It destroyed a car and broke in thousands pieces.
>
> More to come
> Best regards
> Luis Eduardo Pacheco
> StratoCat - Historical recopilation project on the use of stratospheric
> balloons in the scientific research, the military field and the
> aerospace activity
>
>
> 2010/4/28, Joe <nss@... <mailto:nss@...>>:
>
> anyone else getting video? i wanted to see that thing leave.
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/28/2010 4:50 PM, Mark Garrett wrote:
>>
>> Would be nice if they had some audio to go with this, we might
>> know what is going on.
>>
>> Mark, ka9szx
>>
>> ---
>> *From:* Joe <nss@...> <mailto:nss@...>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@...m>
>> *Cc:* Luis Eduardo Pacheco <stratocat.iespana.es@...>
>> <mailto:stratocat.iespana.es@...>;

>> Balloonmail@interaeroleague.com
>> <mailto:Balloonmail@...>;
>> Ballooning@yahoogroups.com <mailto:Ballooning@yahoogroups.com>
>> *Sent:* Wed, April 28, 2010 4:35:10 PM
>> *Subject:* Re: [GPSL] Stratospheric balloon launch LIVE from
>> Australia - NCT mission
>>
>> HE or H2?
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
>>> In a few minutes will start the inflation of the stratospheric
>>> balloon that will carry the NCT (Nuclear Compton Telescope)
>>> developed at UC Berkley.
>>>
>>> Watch it live here : http://stratocat.com.ar/indexe.html
>>>
>
>
>
> --
> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar
> Proyecto de recopilación histórica sobre el uso de globos
> estratosféricos en la investigación cientifica, el campo militar y la
> actividad aeroespacial
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6896. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 04:30:16 UTC
From: Mark Conner
Topic: 6879 Message: 6896
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.abc.net.au/news/video/2010/04/29/2885724.htm

Payload tipped over a Land Rover, and narrowly missed a couple in the car
next to it.

73 de Mark N9XTN

On Wed, Apr 28, 2010 at 21:10, Joe <nss@...> wrote:

> i wonder how long after the video feed went away that this happened/
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
>
> Bad news
>
> Apparently the launch went bad and the payload was dragged or something. It
> destroyed a car and broke in thousands pieces.
>
> More to come
> Best regards
> Luis Eduardo Pacheco
> StratoCat - Historical recopilation project on the use of stratospheric
> balloons in the scientific research, the military field and the aerospace
> activity
>
>

6897. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 11:04:39 UTC
From: Mark Garrett
Topic: 6879 Message: 6897
Attachments: 3 described; binary payloads are missing from this source WARC

I was wondering why they were doing this flight so late in the morning. Obvious a decent amount of wind there.

Shame we lost the video prior to launch.

Mark

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Luis Eduardo Pacheco <stratocat.iespana.es@gmail.com>
Sent: Wed, April 28, 2010 9:10:49 PM
Subject: Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

i wonder how long after the video feed went away that this happened/

Sig
The Original Rolling Ball
Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
>Bad news
>
>>Apparently the launch went bad and the payload was dragged or
>something. It destroyed a car and broke in thousands pieces.
>
>>More to come
>>Best regards
>>Luis Eduardo Pacheco
>>StratoCat - Historical recopilation project on the use of stratospheric
>balloons in the scientific research, the military field and the
>aerospace activity
>
>
>
>2010/4/28, Joe <nss@...>:
>anyone else getting video? i
>>wanted to see that thing leave.
>>
>>
>>The Original Rolling Ball

>>Clock
>>Idle Tyme
>>Idle-Tyme.com
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>>On 4/28/2010 4:50 PM, Mark Garrett wrote:
>>
>>
>>>
>>>Would be nice if they had some audio to go with this, we
>>>might
>>>know what is going on.
>>>
>>>>>>>Mark, ka9szx
>>>
>>>
>>>
>>>

From: >>>Joe
>>> <nss@...>
>>>To: GPSL@yahoogroups.com
>>>Cc: Luis Eduardo
>>>Pacheco <stratocat.iespana.es@...>;
>>> Balloonmail@...;
>>> Ballooning@yahoogroups.com
>>>Sent: Wed, April
>>>28,
>>>2010 4:35:10 PM
>>>Subject: Re:
>>>[GPSL]
>>>Stratospheric balloon launch LIVE from Australia - NCT mission
>>>
>>>>>>>HE or H2?
>>>
>>>
>>>The Original Rolling
>>>Ball
>>>Clock
>>>Idle Tyme
>>>Idle-Tyme.com
>>>http://www.idle-tyme.com
>>>
>>>>>>>On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
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>>>In a few minutes will start the
>>>>inflation of the
>>>>stratospheric balloon
>>>>that will carry the NCT (Nuclear Compton Telescope) developed at UC
>>>>Berkley.

>>>>
>>>>Watch it live here : http://stratocat.com.ar/indexe.html
>>>>
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>
>>--
>>Luis Eduardo Pacheco
>>StratoCat - http://stratocat.com.ar
>>Proyecto de recopilación histórica sobre el uso de globos
>estratosféricos en la investigación cientifica, el campo militar y la
>actividad aeroespacial
>

6898. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 12:01:59 UTC
From: natewac@aol.com
Topic: 6879 Message: 6898
Attachments: 3 described; binary payloads are missing from this source WARC

HLN/CNN showed the destructive launch of this balloon this morning.

N8WAC

-----Original Message-----
From: Mark Garrett <ka9szx@...>
To: GPSL@yahoogroups.com
Sent: Thu, Apr 29, 2010 7:04 am
Subject: Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

I was wondering why they were doing this flight so late in the morning. Obvious a decent amount of wind there.

Shame we lost the video prior to launch.

Mark

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Luis Eduardo Pacheco <stratocat.iespana.es@...>
Sent: Wed, April 28, 2010 9:10:49 PM
Subject: Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

i wonder how long after the video feed went away that this happened/

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
Bad news

Apparently the launch went bad and the payload was dragged or something. It destroyed a car and broke in thousands pieces.

More to come
Best regards
Luis Eduardo Pacheco
StratoCat - Historical recopilation project on the use of stratospheric balloons in the scientific research, the military field and the aerospace activity

2010/4/28, Joe <nss@...>:
anyone else getting video? i wanted to see that thing leave.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 4:50 PM, Mark Garrett wrote:

Would be nice if they had some audio to go with this, we might know what is going on.

Mark, ka9szx

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Luis Eduardo Pacheco <stratocat.iespana.es@gmail.com>; Balloonmail@...;
Ballooning@yahoogroups.com
Sent: Wed, April 28, 2010 4:35:10 PM
Subject: Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

HE or H2?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 4:14 PM, Luis Eduardo Pacheco wrote:
In a few minutes will start the inflation of the stratospheric balloon that will carry the NCT (Nuclear Compton Telescope) developed at UC Berkley.

Watch it live here : http://stratocat.com.ar/indexe.html

--
Luis Eduardo Pacheco
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6899. Balloon Crash

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 12:41:00 UTC
From: L. Paul Verhage
Topic: 6899 Message: 6899

Here's a link to the balloon launch down under.
http://www.abc.net.au/news/stories/2010/04/29/2885563.htm

--
Onwards and Upwards,
Paul

6900. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 12:43:28 UTC
From: Joe
Topic: 6879 Message: 6900
Attachments: 2 described; binary payloads are missing from this source WARC

In the video it looks like they got more wind than they were hoping for, and were turning the launch crane, to drag it more up wind, and when it got totally sideways to the crane it became un attached. In an audio report from a key person they say that there was a mechanical malfunction on the launch system on the end of the launch crane released early.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/28/2010 11:30 PM, Mark Conner wrote:
>
>
> http://www.abc.net.au/news/video/2010/04/29/2885724.htm
>
> Payload tipped over a Land Rover, and narrowly missed a couple in the
> car next to it.
>
> 73 de Mark N9XTN
>
> On Wed, Apr 28, 2010 at 21:10, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> i wonder how long after the video feed went away that this happened/
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
>> Bad news
>>
>> Apparently the launch went bad and the payload was dragged or
>> something. It destroyed a car and broke in thousands pieces.
>>
>> More to come
>> Best regards

>> Luis Eduardo Pacheco
>> StratoCat - Historical recopilation project on the use of
>> stratospheric balloons in the scientific research, the military
>> field and the aerospace activity
>
>
>
>
>

6901. Balloon Crash

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 12:43:50 UTC
From: L. Paul Verhage
Topic: 6899 Message: 6901

The video shows they weren't beneatht eh balloon before relaseing the payload.

--
Onwards and Upwards,
Paul

6902. Re: [GPSL] Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 13:09:14 UTC
From: Michael Willett
Topic: 6899 Message: 6902

I wonder if the launch release rig failed. It was obvious from the camera angle the launch was not going to have a good outcome, and it appeared the crane was swinging up-wind when the payload broke away - it should be facing down wind.

And how do you explain to your car insurance agency that your off-road capable Land Rover was just hit and rolled by a helium balloon... :)

I can imagine the response: "Yah, right... I now have heard it all... Now what is the real story?"

One of our launches was under the same circumstances, where the balloon was downwind and the payload released. It crashed into the ground as the payload out ran the balloon speed, causing the payload to stop working. Not as big time as this Nasa launch, but the same learning experience! We now pull the balloon way up wind and release with a long release line, assuring the payloads are in headed vertical and not horizontally at release.

--Michael

K5NOT

6903. Re: [GPSL] Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 13:31:07 UTC
From: Joe
Topic: 6899 Message: 6903

On 4/29/2010 8:09 AM, Michael Willett wrote:
>
> One of our launches was under the same circumstances, where the balloon
> was downwind and the payload released. It crashed into the ground as the
> payload out ran the balloon speed, causing the payload to stop working.
> Not as big time as this Nasa launch, but the same learning experience!
> We now pull the balloon way up wind and release with a long release
> line, assuring the payloads are in headed vertical and not horizontally
> at release.
>
> --Michael
>
> K5NOT
>
Yup exactly as we do almost on every flight like this,,

http://www.youtube.com/watch?v=Mj3kYdncd_U&

Joe WB9SBD
Near Space Sciences KB9KHO
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>

6904. Re: [GPSL] Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 13:32:15 UTC
From: L. Paul Verhage
Topic: 6899 Message: 6904

Out of CSBF, Tiny Tim, the crane holding the payload, runs downwind before releasing the payload. That way the payload is directly beneath the balloon when the load line is tight.

paul

On Thu, Apr 29, 2010 at 8:09 AM, Michael Willett <mw@...> wrote:

> I wonder if the launch release rig failed. It was obvious from the
> camera angle the launch was not going to have a good outcome, and it
> appeared the crane was swinging up-wind when the payload broke away - it
> should be facing down wind.
>
> And how do you explain to your car insurance agency that your off-road
> capable Land Rover was just hit and rolled by a helium balloon... :)
>
> I can imagine the response: "Yah, right... I now have heard it all...
> Now what is the real story?"
>
> One of our launches was under the same circumstances, where the balloon
> was downwind and the payload released. It crashed into the ground as the
> payload out ran the balloon speed, causing the payload to stop working.
> Not as big time as this Nasa launch, but the same learning experience!
> We now pull the balloon way up wind and release with a long release
> line, assuring the payloads are in headed vertical and not horizontally
> at release.
>
> --Michael
>
> K5NOT
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

--
Onwards and Upwards,
Paul

6905. Re: Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 17:31:20 UTC
From: n1ltv
Topic: 6899 Message: 6905

Here's a some text explaining a little more of the science.

http://news.yahoo.com/s/space/20100429/sc_space/hugenasascienceballooncrashesinaustraliano
utback

Also contains a few seconds of video not presently at the
ABC website.

If anybody can find footage showing a minute or two *before*
the balloon envelope was released from the giant reel, that
would be really most valuable to more fully understand what
went wrong.

To hear the preliminary, all too brief and undetailed
explanation of the failure from UC Berkeley doctoral student
Eric Bellm, click on the audio file button at the basic
ABC webpage:

http://news.yahoo.com/s/space/20100429/sc_space/hugenasascienceballooncrashesinaustraliano
utback

(Cut to the chase by advancing the playback cursor to about
2:03 remaining.)

To see how this can go right during dead calm conditions, and to
see the giant reel release I mentioned above, see this video of the earlier picture-perfect
launch of April 16:

http://www.abc.net.au/news/stories/2010/04/16/2874597.htm

Hank

6906. Re: [GPSL] Re: Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 17:44:59 UTC
From: L. Paul Verhage
Topic: 6899 Message: 6906

>
> To hear the preliminary, all too brief and undetailed
> explanation of the failure from UC Berkeley doctoral student
> Eric Bellm,

A doctoral student? I resemble that remark!

I wonder when he's graduating now?

Paul

6907. Re: [GPSL] Re: Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 17:55:41 UTC
From: James Coxon
Topic: 6899 Message: 6907

Hey all,
This sort of crash isn't that rare in the scientic launching world in my experience - the launch teams are usually quite good at not letting the details get out - guess thats one of the issues with publicising launches.

I experienced a similar situation occurred while out in Africa launching with CNES - a hole in the balloon envelope led to helium escape before launch so that on release there wasn't enough lift - the balloon was able to lift most of the payloads on the payload train but couldn't lift the largest one at the bottom. This resulted in the train being dragged for 3 miles getting very close to the runway of the nearby international airport. Amazingly the payload at the bottom actually survived pretty much intact only 1 of the 2 glass gas syringes was broken. When these balloons do work out its very impressive to watch.
Some pictures of that campaign:
http://www.flickr.com/photos/jcoxon77/sets/72157614028027899/

Hope the payloads are at least slightly recoverable!

James
M6JCX
http://www.pegasushabproject.org.uk

On 29 April 2010 18:31, n1ltv <n1ltv@...> wrote:

>
>
> Here's a some text explaining a little more of the science.
>
>
> http://news.yahoo.com/s/space/20100429/sc_space/hugenasascienceballooncrashesinaustralia
noutback
>
> Also contains a few seconds of video not presently at the
> ABC website.
>
> If anybody can find footage showing a minute or two *before*
> the balloon envelope was released from the giant reel, that
> would be really most valuable to more fully understand what
> went wrong.
>
> To hear the preliminary, all too brief and undetailed
> explanation of the failure from UC Berkeley doctoral student
> Eric Bellm, click on the audio file button at the basic
> ABC webpage:
>

>
> http://news.yahoo.com/s/space/20100429/sc_space/hugenasascienceballooncrashesinaustralia
noutback
>
> (Cut to the chase by advancing the playback cursor to about
> 2:03 remaining.)
>
> To see how this can go right during dead calm conditions, and to
> see the giant reel release I mentioned above, see this video of the earlier
> picture-perfect launch of April 16:
>
> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm
>
> Hank
>
>
>

6908. Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 17:57:37 UTC
From: n1ltv
Topic: 6899 Message: 6908

> see the giant reel release I mentioned above, see this video
> of the earlier picture-perfect launch of April 16:
>
> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm

I can't believe this stone-age method is still being employed.

Looks like it creates unnecessary exposure to serious injury to
the guy standing so close to that reel contraption so he
ca strike the retaining latch, or to anyone else should it
release prematurely.

Couldn't there be a mechanical safety that would be released by
hand to "arm" the reel mechanism latch, and THEN a remote control
by cable from some safe distance (say 100 feet) for the actual release of the reel to free
the envelope?

The way they're doing it looks crazy dangerous to me. Look at
the way that reel slaps and the recoil of the truck!

If I were in charge that method would not be allowed, period.

Hank

6909. Re: [GPSL] Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 18:21:49 UTC
From: Joe
Topic: 6899 Message: 6909
Attachments: 1 described; binary payloads are missing from this source WARC

My thoughts of the motion of that hold down unit is to it is made to
move that way on purpose. So that it gets out of the way of the balloon
envelope NOW so that there is no sliding of the film across anything at
all. for in it's fragility i'm thinking any sliding is a hole just
waiting to happen.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/29/2010 12:57 PM, n1ltv wrote:
>> see the giant reel release I mentioned above, see this video
>> of the earlier picture-perfect launch of April 16:
>>
>> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm
>>
> I can't believe this stone-age method is still being employed.
>
> Looks like it creates unnecessary exposure to serious injury to
> the guy standing so close to that reel contraption so he
> ca strike the retaining latch, or to anyone else should it
> release prematurely.
>
> Couldn't there be a mechanical safety that would be released by
> hand to "arm" the reel mechanism latch, and THEN a remote control
> by cable from some safe distance (say 100 feet) for the actual release of the reel to
free the envelope?
>
> The way they're doing it looks crazy dangerous to me. Look at
> the way that reel slaps and the recoil of the truck!
>
> If I were in charge that method would not be allowed, period.
>
> Hank
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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6910. Re: Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 18:35:41 UTC
From: n1ltv
Topic: 6899 Message: 6910

> My thoughts of the motion of that hold down unit is to it is made to
> move that way on purpose.

Sure it's made that way for the reason you state. I would
not change anything about that part of the basic mechanism,
just the method of release so that a person does not have to
stand next to it to strike it to let it rip (pun recognized).

6911. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 23:12:00 UTC
From: Mike Manes
Topic: 6879 Message: 6911

Well, the launch crane, aka "Tiny Tim" is supposed to keep the payload directly under the balloon during launch. That clearly didn't happen, so maybe the failure was that Tiny Tim's engine conked out - it didn't appear to making any progress. The payload gets released from the crane when it's weight gets taken up by the lift line - which kinda did happen, except sideways.

We had a similar mishap on our first NOAA GAINS launch out of Meadow Lake airport near Falcon CO - with yet another plastic balloon. Wind was calm during fill, but launch was delayed due to payload telemetry issues, during which the wind cropped up.

73 de Mike W5VSI

On 4/29/2010 06:43, Joe wrote:
> In the video it looks like they got more wind than they were hoping for,
> and were turning the launch crane, to drag it more up wind, and when it
> got totally sideways to the crane it became un attached. In an audio
> report from a key person they say that there was a mechanical
> malfunction on the launch system on the end of the launch crane released
> early.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com
>
> On 4/28/2010 11:30 PM, Mark Conner wrote:
>> http://www.abc.net.au/news/video/2010/04/29/2885724.htm
>>
>> Payload tipped over a Land Rover, and narrowly missed a couple in the
>> car next to it.
>>
>> 73 de Mark N9XTN
>>
>> On Wed, Apr 28, 2010 at 21:10, Joe <nss@... <mailto:nss@...>>
>> wrote:
>>
>> i wonder how long after the video feed went away that this happened/
>>
>> The Original Rolling Ball Clock

>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
>>> Bad news
>>>
>>> Apparently the launch went bad and the payload was dragged or
>>> something. It destroyed a car and broke in thousands pieces.
>>>
>>> More to come
>>> Best regards
>>> Luis Eduardo Pacheco
>>> StratoCat - Historical recopilation project on the use of
>>> stratospheric balloons in the scientific research, the military
>>> field and the aerospace activity
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6912. Re: [GPSL] Balloon Crash / car insurance

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-29 23:35:12 UTC
From: Mike Manes
Topic: 6899 Message: 6912

We instruct our payload handlers to do what Tiny Tim was supposed to do:
move to stay directly under the balloon during launch. Fortunately,
our payloads are light enough to use human "Tiny Tim's" :=).
73 de Mike W5VSI

On 4/29/2010 07:09, Michael Willett wrote:
> I wonder if the launch release rig failed. It was obvious from the
> camera angle the launch was not going to have a good outcome, and it
> appeared the crane was swinging up-wind when the payload broke away - it
> should be facing down wind.
>
> And how do you explain to your car insurance agency that your off-road
> capable Land Rover was just hit and rolled by a helium balloon... :)
>
> I can imagine the response: "Yah, right... I now have heard it all...
> Now what is the real story?"
>
> One of our launches was under the same circumstances, where the balloon
> was downwind and the payload released. It crashed into the ground as the
> payload out ran the balloon speed, causing the payload to stop working.
> Not as big time as this Nasa launch, but the same learning experience!
> We now pull the balloon way up wind and release with a long release
> line, assuring the payloads are in headed vertical and not horizontally
> at release.
>
> --Michael
>
> K5NOT
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6913. BASE 42 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 00:10:21 UTC
From: BASE
Topic: 6913 Message: 6913

Dear friends,

Despite the troubles encountered in Australia (which three colleagues stopped by to tell me about during our pre-flight preparation), BASE 42 was completed today, with only the typical minor problems.

Launch in 21+ miles per hour winds went smoothly. The tethered release was very helpful (Thanks, Joe).

Flying 10.5 pounds on a 1200 gram balloon with 1300 ft/min ascent resulted in burst just above 86 kft.

Recovery was easy since no corn or beans have yet to sprout upward to hide the payloads.

Had the help of Ron, N9QGS, whose rebuilt tracker went along for a test ride. Also had Jay, KC9QOW and his colleague from Terre Haute at the launch. They also tracked the flight.

Thanks to all for your support,
Howard

6914. Re: [GPSL] Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 01:36:18 UTC
From: Mike Manes
Topic: 6899 Message: 6914

From the stills showing the fill, the winds were dead calm. But the video starting post-release and showing the gory details of the payload drag indicates that there was at least 10 kt - maybe more - wind upon release.

It gets real dicey to be the guy stuck with the go/no-go decision, once a huge sum has been expended already just filling the balloon, since a no-go means firing the balloon destruct and wasting it and all that gas for nothing. Not to mention the payroll for the launch crew and the experiment teams.

Been there, done that, got a few lousy T-shirts, with the biggest difference being the magnitude of the money and effort, not to mention face, lost. This is why EOSS always carefully evaluates the forecast launch conditions up to T-12 hours, and calls a no-go before anyone deploys to the launch or recovery sites. Any chance that surface wind could hit 10 kt is a no-go and scrub to the weather date - hands down. That sure beats postponing that call until everyone's already in the field - and that could include 10 vans with 50 students. Even so, that call creates heartburn when the students have booked non-refundable flights out the next morning :=(.

NASA applies the same policy, but in this case, there may have been some other, as-yet undisclosed, drivers pushing the launch at any risk. Could be a day's delay would have fallen outside of the experiment's observation window, e.g.

73 de Mike W5VSI, EOSS

On 4/29/2010 11:57, n1ltv wrote:
>> see the giant reel release I mentioned above, see this video
>> of the earlier picture-perfect launch of April 16:
>>
>> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm
>
> I can't believe this stone-age method is still being employed.
>
> Looks like it creates unnecessary exposure to serious injury to
> the guy standing so close to that reel contraption so he
> ca strike the retaining latch, or to anyone else should it
> release prematurely.
>
> Couldn't there be a mechanical safety that would be released by
> hand to "arm" the reel mechanism latch, and THEN a remote control
> by cable from some safe distance (say 100 feet) for the actual release of the reel to free the envelope?

>
> The way they're doing it looks crazy dangerous to me. Look at
> the way that reel slaps and the recoil of the truck!
>
> If I were in charge that method would not be allowed, period.
>
> Hank
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6915. Re: [GPSL] Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 01:43:32 UTC
From: Mike Manes
Topic: 6899 Message: 6915

There's a few hundred feet of taut lift line between the bottom of the envelope and the Tiny Tim, so the entire envelope is aloft before coming anywhere close to it. And these launches typically require calm to light surface winds so that the uninflated envelope simply lifts directly upward without being dragged horizontally. It's pretty certain that those launch winds at Alice Springs came as huge surprise.

73 de Mike W5VSI

On 4/29/2010 12:21, Joe wrote:
> My thoughts of the motion of that hold down unit is to it is made to
> move that way on purpose. So that it gets out of the way of the balloon
> envelope NOW so that there is no sliding of the film across anything at
> all. for in it's fragility i'm thinking any sliding is a hole just
> waiting to happen.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/29/2010 12:57 PM, n1ltv wrote:
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>>>
>> I can't believe this stone-age method is still being employed.
>>
>> Looks like it creates unnecessary exposure to serious injury to
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>> release prematurely.
>>
>> Couldn't there be a mechanical safety that would be released by
>> hand to "arm" the reel mechanism latch, and THEN a remote control
>> by cable from some safe distance (say 100 feet) for the actual release of the reel to free the envelope?
>>
>> The way they're doing it looks crazy dangerous to me. Look at
>> the way that reel slaps and the recoil of the truck!

>>
>> If I were in charge that method would not be allowed, period.
>>
>> Hank
>>
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6916. Re: [GPSL] Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 02:10:48 UTC
From: Zack Clobes
Topic: 6899 Message: 6916

You obviously don't live in Kansas. :-)

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Thu, Apr 29, 2010 at 8:36 PM, Mike Manes <mrmanes@...> wrote:

>
>
> From the stills showing the fill, the winds were dead calm. But the
> video starting post-release and showing the gory details of the
> payload drag indicates that there was at least 10 kt - maybe more -
> wind upon release.
>
> It gets real dicey to be the guy stuck with the go/no-go decision, once a
> huge sum has been expended already just filling the balloon, since a no-go
> means firing the balloon destruct and wasting it and all that gas for
> nothing. Not to mention the payroll for the launch crew and the experiment
> teams.
>
> Been there, done that, got a few lousy T-shirts, with the biggest
> difference
> being the magnitude of the money and effort, not to mention face, lost.
> This
> is why EOSS always carefully evaluates the forecast launch conditions up to
> T-12 hours, and calls a no-go before anyone deploys to the launch or
> recovery
> sites. Any chance that surface wind could hit 10 kt is a no-go and scrub to
> the weather date - hands down. That sure beats postponing that call until
> everyone's already in the field - and that could include 10 vans with 50
> students. Even so, that call creates heartburn when the students have
> booked non-refundable flights out the next morning :=(.
>
> NASA applies the same policy, but in this case, there may have been some
> other, as-yet undisclosed, drivers pushing the launch at any risk. Could
> be a day's delay would have fallen outside of the experiment's observation
> window, e.g.
>
> 73 de Mike W5VSI, EOSS
>
> On 4/29/2010 11:57, n1ltv wrote:
> >> see the giant reel release I mentioned above, see this video
> >> of the earlier picture-perfect launch of April 16:

> >>
> >> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm
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> > hand to "arm" the reel mechanism latch, and THEN a remote control
> > by cable from some safe distance (say 100 feet) for the actual release of
> the reel to free the envelope?
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> > The way they're doing it looks crazy dangerous to me. Look at
> > the way that reel slaps and the recoil of the truck!
> >
> > If I were in charge that method would not be allowed, period.
> >
> > Hank
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

6917. Filing a NOTAM

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 02:47:04 UTC
From: Zack Clobes
Topic: 6917 Message: 6917

I'm a bit rusty, and I believe that the government has outsourced their briefers since I last filed.

Who do I call, and what information will they need?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6918. Cellphones in balloons legal?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 04:14:03 UTC
From: wb8elk@aol.com
Topic: 6918 Message: 6918

Hi Scott....Ron was using the EVDO card in his car to send the reports via a UI-View I-Gate in his car, not in the balloon.

Using the cellular phone network from a balloon is something that a few folks including the MIT students are promoting to the general public as a primary balloon position reporting method (even though it would appear to be prohibited even in balloons by regulation CFR# 22.935 - link shown below - Mike Manes of EOSS previously posted a similar link on this topic)....The method being promoted to the general public for balloons involves using cheap Boost Mobile cell phones with built-in GPS. They use websites such as Instamapper.com or accutracker.com to see their reports....usually due to the nature of cell networks, once the balloon is high enough to hit multiple cell sites, no one wins and they get nothing back. I have a terrible time of it trying to use my cell phone even at my mountaintop house and I'm only 500 feet above average terrain....The MIT students got very lucky on their first flight and had a hit just before they landed and very spotty coverage during most of the flight on their first mission, but had nearly zero results on their next few missions. One of them did get his ham license and now uses amateur radio tracking with good results.....however, they still promote cell phones on their online Balloon Guide. Also, the Instamapper website (or perhaps the output of the Boost Mobile cell GPS) truncates the altitude above 22,000 feet so even though they might get some coverage higher than that, it just keeps reporting 22k feet. The only good use for cell phones on balloons would be as a backup recovery method as long it's in range of a cell tower once on the ground. So as a "Phone-Home" use after landing a cell phone system could be quite useful as a backup for APRS. However, it's much better to use a FindMeSpot unit for that as I've had great results using a Spot as backup recovery info once landed. I've already received a number of emails from folks who lost their cell phone balloon payloads and are asking about better ways to track them, so I try to steer them towards the amateur radio route.

The most successful use of cell phone reporting from a balloon was done by the innovative Ivory Copter folks (using a bunch of mylar party balloons) who pointed a directional antenna straight down from their payload, but even then they had spotty coverage. They were even sending down live still photos during the flight from the cell phone camera. Since they are on one of these lists, perhaps they can offer some insight into the legality of using cellphones from balloons....it's possible that there is an exception to the rule for unmanned research balloons but I haven't found that info as yet.

I found this posting about cell phone usage in balloons and airplanes which seems to be quite clear about not using cell phones while airborne even in balloons:

>Cellular telephones installed in or carried aboard airplanes, balloons or any other type of aircraft must not be operated while such >aircraft are airborne (not touching the ground). When any aircraft leaves the ground, all cellular telephones on board that aircraft must >be turned off.

CFR regulation # 22.935
http://edocket.access.gpo.gov/cfr_2006/octqtr/pdf/47cfr22.935.pdf

So in addition to the fact that government regulations appears to prohibit it, the very nature of cell tower sites means that it doesn't work well during flight.

Much better for license-free balloon flights to use Maxstream 900 MHz units (such as the 9Xtend) with the FindMeSpot as a backup.

However, the price will be substantially more than the $150 cost mentioned by the MIT balloon guide (our normal ARHAB flights will usually cost more than that just for the balloon and helium/hydrogen). That is only achievable by using very small eBay surplus balloons, donated helium or hydrogen and then you'll still be nearly $200 for the Maxstream unit by itself....a safe estimate for a license-free payload using a Maxstream 9Xtend, GPS receiver and Spot payload cost would be about $400....not to mention the ground station costs of $200 for the ground unit, $50 to $100 for the antenna and the $149 a year subscription for the Spot unit.

So getting your amateur radio license would appear to be a fiscally responsible thing to do if you're planning to get into high altitude ballooning as you then can utilize the extensive APRS network and entice all those balloon-chaser hams who will happily climb remote mountains, hike into "Deliverance Country", scale trees, risk stampeding buffalos and tromp through alligator-infested swamps without hesistation in their quest to find your APRS balloon payloads.

- Bill WB8ELK

-----Original Message-----
From: Scott Miller <scott@opentrac.org>
To: ronald74 <APRSdash9@...>
Cc: Balloon_Sked@yahoogroups.com
Sent: Thu, Apr 29, 2010 10:11 pm
Subject: Re: [Balloon_Sked] BASE 42 - Recovered

What's the legality of using EVDO while airborne? I thought there were
ome restrictions on that...
Scott
1VG
ronald74 wrote:

Hi Folks,

I won't steal Howards thunder, but we flew two GPS trackers N9QGS-11 and
W9YJ-11, both worked well, and with the use of a EVDO card in my vehicle
we were able to bring the data all the way down to the ground.

Prediction software were very accurate today. it was just a perfect
balloon recovery, about 20 to 30 feet off the side of the road in farm
field that has not started sprouting anything, so it was a 10-15 second
walk from the car to snatch it.

>From my aspect, I was in general satisfied with the first use of an
EVDO to bring the balloon data all the way to the ground. But I had some
other complication going on with the GPS side inside UI-View mainly I
believe with a program GPSGate locking up and not recovering causing me
to loose GPS position within UI View. I may try by-passing this and
using a serial GPS with a Serial to USB adapter.

I was not able to keep up with anything more than UI View, but someday maybe streaming a recovery would be neat to try.

Ron N9QGS

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

6919. Re: [GPSL] Accident waiting to happen with this method of envelope release

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 04:16:17 UTC
From: Mike Manes
Topic: 6899 Message: 6919

No, we don't. But that's why we launch at sunrise, when the winds
pass thru a null due to heating on the tops of the Rockies.

On 4/29/2010 20:10, Zack Clobes wrote:
>
>
> You obviously don't live in Kansas. :-)
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Thu, Apr 29, 2010 at 8:36 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> From the stills showing the fill, the winds were dead calm. But the
> video starting post-release and showing the gory details of the
> payload drag indicates that there was at least 10 kt - maybe more -
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>
> Been there, done that, got a few lousy T-shirts, with the biggest
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> being the magnitude of the money and effort, not to mention face,
> lost. This
> is why EOSS always carefully evaluates the forecast launch
> conditions up to
> T-12 hours, and calls a no-go before anyone deploys to the launch or
> recovery
> sites. Any chance that surface wind could hit 10 kt is a no-go and
> scrub to
> the weather date - hands down. That sure beats postponing that call
> until
> everyone's already in the field - and that could include 10 vans with 50
> students. Even so, that call creates heartburn when the students have

> booked non-refundable flights out the next morning :=(.
>
> NASA applies the same policy, but in this case, there may have been some
> other, as-yet undisclosed, drivers pushing the launch at any risk. Could
> be a day's delay would have fallen outside of the experiment's
> observation
> window, e.g.
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> 73 de Mike W5VSI, EOSS
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> On 4/29/2010 11:57, n1ltv wrote:
> >> see the giant reel release I mentioned above, see this video
> >> of the earlier picture-perfect launch of April 16:
> >>
> >> http://www.abc.net.au/news/stories/2010/04/16/2874597.htm
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> > >
> > > Looks like it creates unnecessary exposure to serious injury to
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> > > by cable from some safe distance (say 100 feet) for the actual
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> > >
> > > The way they're doing it looks crazy dangerous to me. Look at
> > > the way that reel slaps and the recoil of the truck!
> > >
> > > If I were in charge that method would not be allowed, period.
> > >
> > > Hank
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> > > ------------------------------------
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> > > Yahoo! Groups Links
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> > --
> > Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein

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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6920. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 10:23:47 UTC
From: Luis Eduardo Pacheco
Topic: 6879 Message: 6920

The crane used in Australia is not "Tiny tim". Besides... tiny tim is not working anymore... the last launches from Palestine were performed transporting from Fort Sumner the "Big Bill" launch vehicle.

Interesting, I had no references of the GAINS launch in CO... iy you want please let me know more in a private message.

best regards

2010/4/29, Mike Manes <mrmanes@gmail.com>:
>
> Well, the launch crane, aka "Tiny Tim" is supposed to keep the payload
> directly under the balloon during launch. That clearly didn't happen,
> so maybe the failure was that Tiny Tim's engine conked out - it didn't
> appear to making any progress. The payload gets released from the crane
> when it's weight gets taken up by the lift line - which kinda did happen,
> except sideways.
>
> We had a similar mishap on our first NOAA GAINS launch out of Meadow
> Lake airport near Falcon CO - with yet another plastic balloon. Wind was
> calm during fill, but launch was delayed due to payload telemetry issues,
> during which the wind cropped up.
>
> 73 de Mike W5VSI
>
>
> On 4/29/2010 06:43, Joe wrote:
> > In the video it looks like they got more wind than they were hoping for,
> > and were turning the launch crane, to drag it more up wind, and when it
> > got totally sideways to the crane it became un attached. In an audio
> > report from a key person they say that there was a mechanical
> > malfunction on the launch system on the end of the launch crane released
> > early.
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> > On 4/28/2010 11:30 PM, Mark Conner wrote:
> >> http://www.abc.net.au/news/video/2010/04/29/2885724.htm

> >>
> >> Payload tipped over a Land Rover, and narrowly missed a couple in the
> >> car next to it.
> >>
> >> 73 de Mark N9XTN
> >>
>
> >> On Wed, Apr 28, 2010 at 21:10, Joe <nss@... <mailto:nss@...>>
>
> >> wrote:
> >>
> >> i wonder how long after the video feed went away that this happened/
> >>
> >> The Original Rolling Ball Clock
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> >> On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
> >>> Bad news
> >>>
> >>> Apparently the launch went bad and the payload was dragged or
> >>> something. It destroyed a car and broke in thousands pieces.
> >>>
> >>> More to come
> >>> Best regards
> >>> Luis Eduardo Pacheco
> >>> StratoCat - Historical recopilation project on the use of
> >>> stratospheric balloons in the scientific research, the military
> >>> field and the aerospace activity
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> >>
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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>
> Yahoo! Groups Links
>
> http://groups.yahoo.com/group/GPSL/
>
>
> http://groups.yahoo.com/group/GPSL/join
>

> (Yahoo! ID required)
>
>
> http://docs.yahoo.com/info/terms/
>
>

--
Luis Eduardo Pacheco
StratoCat - http://stratocat.com.ar
Proyecto de recopilación histórica sobre el uso de globos estratosféricos en
la investigación cientifica, el campo militar y la actividad aeroespacial

6921. Manned cluster ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 14:51:11 UTC
From: nordlie101
Topic: 6921 Message: 6921

Looks like the legacy of 'Lawnchair Larry' lives on, though done correctly this time:

http://www.aopa.org/aircraft/articles/2010/100429clusterballoons.html?WT.mc_id=100430epilot&WT.mc_sect=gan

I can think of less expensive ways to fly...

6922. Flight predictions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 16:06:57 UTC
From: Joe
Topic: 6922 Message: 6922
Attachments: 2 described; binary payloads are missing from this source WARC

I just ran a prediction for tomorrow morning at the Near Space ventures site.

wow the winds are bad for tomorrow. i filled in the data as seen here.

But the summary at the right side of the google map track page in one spot says in the launch box summary it has max altitude as specified in the data entry form the 123,000 feet.

But in the burst box it says that burst is at just barely over 105K, why is that?

Joe WB9SBD
Near Space Sciences KB9KHO
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6923. Balloon Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 17:46:13 UTC
From: L. Paul Verhage
Topic: 6923 Message: 6923

Kaymon is out of there 1200 gram balloons and don't know when they'll be back in stock. Has anyone run into a problem liek this with Kaymont? They've been good for me in the past, but I haven't had to order a balloon in over a year.

Also, what is the name of the other supplier people have used, was it Scientific Supply? As I recall, they were rather pricey.

Thanks

--
Onwards and Upwards,
Paul

6924. Scientific Sales

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 17:48:04 UTC
From: L. Paul Verhage
Topic: 6924 Message: 6924

Okay, I see it's Scientific Sales.

They want $110 for a 1200 gram balloon, which is about twice the Kaymont price.

--
Onwards and Upwards,
Paul

6925. Re: [GPSL] Balloon Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 18:04:01 UTC
From: Joe
Topic: 6923 Message: 6925
Attachments: 1 described; binary payloads are missing from this source WARC

This guy has been chasing me for probably ohhh 8 years or so to come into the USA market. But i just don't have the cash to do it.

But the last set of prices he gave me were incredible. Now grant you they are made in China, sooo quality level is,,,, well,,,, you know. but the prices were like super crazy like a 2000 gram was only like 80 bucks!

http://www.yunhuanelectronics.com/Meteorological_Balloon.htm

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 4/30/2010 12:46 PM, L. Paul Verhage wrote:
>
>
> Kaymon is out of there 1200 gram balloons and don't know when they'll
> be back in stock. Has anyone run into a problem liek this with
> Kaymont? They've been good for me in the past, but I haven't had to
> order a balloon in over a year.
> Also, what is the name of the other supplier people have used, was it
> Scientific Supply? As I recall, they were rather pricey.
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6926. Re: [GPSL] Flight predictions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 18:43:19 UTC
From: BASE
Topic: 6922 Message: 6926
Attachments: 2 described; binary payloads are missing from this source WARC

Joe,
One problem is the lack of good wind data for altitudes above 105,000 feet. Actually, the Near Space Ventures program uses the GFS models that stop at 87,000 feet. Any burst altitude above that assumes the same wind velocity at all higher altitudes. Perhaps Troy can share why the extrapolation only goes up to 105 kft.
Balloon Track (from Rick vonGlahn) allows you to use actually sounding data or a blend of model winds at low altitudes and sounding data at higher altitudes.. The Green Bay balloon had a good climb this morning to over 108,000 feet.
Howard

--- On Fri, 4/30/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Flight predictions
To: GPSL@yahoogroups.com
Date: Friday, April 30, 2010, 12:06 PM

I just ran a prediction for tomorrow morning at the Near Space ventures
site.

wow the winds are bad for tomorrow. i filled in the data as seen here.

But the summary at the right side of the google map track page in one
spot says in the launch box summary it has max altitude as specified in
the data entry form the 123,000 feet.

But in the burst box it says that burst is at just barely over 105K,
why is that?

Joe WB9SBD

Near Space Sciences KB9KHO

--

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

6927. Fwd: Re: Fwd: [GPSL] Filing a NOTAM

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 19:00:15 UTC
From: Mike Manes
Topic: 6927 Message: 6927

-------- Original Message --------
Subject: Re: Fwd: [GPSL] Filing a NOTAM
Date: Fri, 30 Apr 2010 08:35:00 -0600
From: Russ Chadwick <Russell.B.Chadwick@...>
To: Mike Manes <mrmanes@...>, Zack Clobes <zclobes@...>

On 4/29/2010 10:17 PM, Mike Manes wrote:
> Russ,
> Can you pass on to Zack that number in Prescott for NOTAMs?
> 73 de Mike W5VSI

The FAA NOTAM phone number is 877-487-6867

You can always find it on the EOSS web site on the second page of the
Waiver Document

http://www.eoss.org/faa/documents/2010_faa_waiver_EOSS.pdf

Russ

6928. Re: [GPSL] Flight predictions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 19:00:46 UTC
From: wb8elk@aol.com
Topic: 6922 Message: 6928
Attachments: 2 described; binary payloads are missing from this source WARC

Joe...since the GFS model stops at 87k feet as Howard mentions, your best option for such a high altitude flight is to download the actual PC version of Balloon Track from the EOSS website and blend in the nearest radiosonde site to your data.

- Bill WB8ELK

-----Original Message-----
From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 30, 2010 1:43 pm
Subject: Re: [GPSL] Flight predictions

Joe,

One problem is the lack of good wind data for altitudes above 105,000 feet. Actually, the Near Space Ventures program uses the GFS models that stop at 87,000 feet. Any burst altitude above that assumes the same wind velocity at all higher altitudes. Perhaps Troy can share why the extrapolation only goes up to 105 kft.

Balloon Track (from Rick vonGlahn) allows you to use actually sounding data or a blend of model winds at low altitudes and sounding data at higher altitudes.. The Green Bay balloon had a good climb this morning to over 108,000 feet.

Howard

--- On Fri, 4/30/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Flight predictions
To: GPSL@yahoogroups.com
Date: Friday, April 30, 2010, 12:06 PM

I just ran a prediction for tomorrow morning at the Near Space ventures site.

wow the winds are bad for tomorrow. i filled in the data as seen here.

But the summary at the right side of the google map track page in one spot says in the launch box summary it has max altitude as specified in the data entry form the 123,000 feet.

But in the burst box it says that burst is at just barely over 105K, why is that?

Joe WB9SBD
Near Space Sciences KB9KHO

--

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http://www.idle-tyme.com

6929. Re: [GPSL] Flight predictions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 19:10:12 UTC
From: Mark Conner
Topic: 6922 Message: 6929
Attachments: 2 described; binary payloads are missing from this source WARC

Another possibility is to hand-jam the high-level sounding wind data
(converting from knots to meters/sec if necessary) after doing the
cut-and-paste operation in the on-line version. I've done that a few times
and it seems to work fine.

73 de Mark N9XTN

On Fri, Apr 30, 2010 at 14:00, <wb8elk@...> wrote:

> Joe...since the GFS model stops at 87k feet as Howard mentions, your best
> option for such a high altitude flight is to download the actual PC version
> of Balloon Track from the EOSS website and blend in the nearest radiosonde
> site to your data.
>
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: BASE <basedepauw@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Apr 30, 2010 1:43 pm
> Subject: Re: [GPSL] Flight predictions
>
> Joe,
>
> One problem is the lack of good wind data for altitudes above 105,000
> feet. Actually, the Near Space Ventures program uses the GFS models that
> stop at 87,000 feet. Any burst altitude above that assumes the same wind
> velocity at all higher altitudes. Perhaps Troy can share why the
> extrapolation only goes up to 105 kft.
>
> Balloon Track (from Rick vonGlahn) allows you to use actually sounding
> data or a blend of model winds at low altitudes and sounding data at higher
> altitudes.. The Green Bay balloon had a good climb this morning to over
> 108,000 feet.
>
> Howard
>
> --- On *Fri, 4/30/10, Joe <nss@...>* wrote:
>
>
>
> From: Joe <nss@...>

> Subject: [GPSL] Flight predictions
> To: GPSL@yahoogroups.com
> Date: Friday, April 30, 2010, 12:06 PM
>
> I just ran a prediction for tomorrow morning at the Near Space ventures
> site.
>
> wow the winds are bad for tomorrow. i filled in the data as seen here.
>
> But the summary at the right side of the google map track page in one spot
> says in the launch box summary it has max altitude as specified in the data
> entry form the 123,000 feet.
>
> But in the burst box it says that burst is at just barely over 105K, why
> is that?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
>

6930. Re: [GPSL] Flight predictions

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 19:48:48 UTC
From: wb8elk@aol.com
Topic: 6922 Message: 6930

Mark...I've done that too and it works....actually one of the advantages to their new cut and paste wind data entry method that was not possible with the former automated wind data mode.

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 30, 2010 2:10 pm
Subject: Re: [GPSL] Flight predictions

Another possibility is to hand-jam the high-level sounding wind data (converting from knots to meters/sec if necessary) after doing the cut-and-paste operation in the on-line version. I've done that a few times and it seems to work fine.

73 de Mark N9XTN

On Fri, Apr 30, 2010 at 14:00, <wb8elk@aol.com> wrote:

Joe...since the GFS model stops at 87k feet as Howard mentions, your best option for such a high altitude flight is to download the actual PC version of Balloon Track from the EOSS website and blend in the nearest radiosonde site to your data.

- Bill WB8ELK

-----Original Message-----
From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Fri, Apr 30, 2010 1:43 pm
Subject: Re: [GPSL] Flight predictions

Joe,

One problem is the lack of good wind data for altitudes above 105,000 feet. Actually, the Near Space Ventures program uses the GFS models that stop at 87,000 feet. Any burst altitude above that assumes the same wind velocity at all higher altitudes. Perhaps Troy can share why the extrapolation only goes up to 105 kft.

Balloon Track (from Rick vonGlahn) allows you to use actually sounding data or a blend of model winds at low altitudes and sounding data at higher altitudes.. The Green Bay balloon had a good climb this morning to over 108,000 feet.

Howard

--- On Fri, 4/30/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Flight predictions
To: GPSL@yahoogroups.com
Date: Friday, April 30, 2010, 12:06 PM

I just ran a prediction for tomorrow morning at the Near Space ventures site.

wow the winds are bad for tomorrow. i filled in the data as seen here.

But the summary at the right side of the google map track page in one spot says in the launch box summary it has max altitude as specified in the data entry form the 123,000 feet.

But in the burst box it says that burst is at just barely over 105K, why is that?

Joe WB9SBD
Near Space Sciences KB9KHO

--

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http://www.idle-tyme.com

6931. Re: [GPSL] Stratospheric balloon launch LIVE from Australia - NCT mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 20:37:51 UTC
From: Mike Manes
Topic: 6879 Message: 6931

Hi Luis,

Here's a recap of EOSS-59, the GAINS I flight with a wind-damaged plastic balloon:

http://www.eoss.org/ansrecap/ar_060/recap59.htm

There are lots of links for more details than you'd ever care for, but no videos were shot at launch.

This photo sequence is best we have of the launch drag:

http://www.eoss.org/ansrecap/ar_060/recap59h.htm

If that drag had lasted a bit longer, we'd have smacked a Cessna King Air rather than an SUV :=(.

Thanks for the update on Tiny Tim, whom I met at Ft Sumner back in 1994. He will be missed. However, I hope that term effectively serves as a generic title for machines that serve that function.

BTW, there's an excellent video showing exactly how Tiny Tim is supposed to operate. It was a documentary of a huge launch of a Microwave Background Survey instrument from Sweden that cruised W at a tall float altitude, landing a few days later in Canada. Seem to have lost track of the URL.

73 de Mike W5VSI
CTO EOSS

On 4/30/2010 04:23, Luis Eduardo Pacheco wrote:
>
>
> The crane used in Australia is not "Tiny tim". Besides... tiny tim is
> not working anymore... the last launches from Palestine were performed
> transporting from Fort Sumner the "Big Bill" launch vehicle.
>
> Interesting, I had no references of the GAINS launch in CO... iy you
> want please let me know more in a private message.
>
> best regards
>
>
>
> 2010/4/29, Mike Manes <mrmanes@... <mailto:mrmanes@...>>:
>

> Well, the launch crane, aka "Tiny Tim" is supposed to keep the payload
> directly under the balloon during launch. That clearly didn't happen,
> so maybe the failure was that Tiny Tim's engine conked out - it didn't
> appear to making any progress. The payload gets released from the crane
> when it's weight gets taken up by the lift line - which kinda did
> happen,
> except sideways.
>
> We had a similar mishap on our first NOAA GAINS launch out of Meadow
> Lake airport near Falcon CO - with yet another plastic
> balloon. Wind was
> calm during fill, but launch was delayed due to payload telemetry
> issues,
> during which the wind cropped up.
>
> 73 de Mike W5VSI
>
>
> On 4/29/2010 06:43, Joe wrote:
> > In the video it looks like they got more wind than they were
> hoping for,
> > and were turning the launch crane, to drag it more up wind, and
> when it
> > got totally sideways to the crane it became un attached. In an audio
> > report from a key person they say that there was a mechanical
> > malfunction on the launch system on the end of the launch crane
> released
> > early.
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> > On 4/28/2010 11:30 PM, Mark Conner wrote:
> >> http://www.abc.net.au/news/video/2010/04/29/2885724.htm
> >>
> >> Payload tipped over a Land Rover, and narrowly missed a couple
> in the
> >> car next to it.
> >>
> >> 73 de Mark N9XTN
> >>
>
> >> On Wed, Apr 28, 2010 at 21:10, Joe <nss@...
> <mailto:nss@mwt.net> <mailto:nss@... <mailto:nss@...>>>
>

> >> wrote:
> >>
> >> i wonder how long after the video feed went away that this
> happened/
> >>
> >> The Original Rolling Ball Clock
> >> Idle Tyme
> >> Idle-Tyme.com
> >> http://www.idle-tyme.com
> >>
> >> On 4/28/2010 8:35 PM, Luis Eduardo Pacheco wrote:
> >>> Bad news
> >>>
> >>> Apparently the launch went bad and the payload was dragged or
> >>> something. It destroyed a car and broke in thousands pieces.
> >>>
> >>> More to come
> >>> Best regards
> >>> Luis Eduardo Pacheco
> >>> StratoCat - Historical recopilation project on the use of
> >>> stratospheric balloons in the scientific research, the military
> >>> field and the aerospace activity
> >>
> >>
>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> http://groups.yahoo.com/group/GPSL/
>
>
> http://groups.yahoo.com/group/GPSL/join
>
> (Yahoo! ID required)
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
> http://docs.yahoo.com/info/terms/
>

>
>
>
> --
> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar
> Proyecto de recopilación histórica sobre el uso de globos
> estratosféricos en la investigación cientifica, el campo militar y la
> actividad aeroespacial
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6932. Legally Ballooning From a Lawn Chair

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 21:02:13 UTC
From: Michael Willett
Topic: 6879 Message: 6932

Came across this in my AOPA email.

Now who is going to be the first at GPSL to do this?

http://www.aopa.org/aircraft/articles/2010/100429clusterballoons.html?WT.mc_id=100430epilot&WT.mc_sect=gan

--Michael
K5NOT

6933. Re: [Balloon_Sked] Cellphones in balloons legal?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-04-30 21:06:51 UTC
From: wb8elk@aol.com
Topic: 6933 Message: 6933

Hi Chris....so according to that, using the PCS and AWS bands would be legal for airborne operations since those frequencies aren't spelled out in CFR 22.935? I have read that the new 700 MHz band is where some companies plan to operate balloon wireless internet and cell systems.. Also, your take on the interpretation of what constitutes a "Cellular Telephone" could mean that the 869 to 940 MHz Cellular Band is usable for airborne data applications but not voice telephony. But I also agree that a GlobalStar modem such as is inside the FindMeSpot unit would be a better method than using a cellular method. Thanks for clarifying that. - Bill WB8ELK

Wiki excerpt:

The Cellular band (869-894 MHz) is divided into 2 frequency blocks (A and B). There are 306 Metropolitan Service Areas and 428 rural service areas. Each trading area consists of one or more counties.

The PCS band (1850-1990 MHz) is divided into six frequency blocks (A through F). Each block is between 10 MHz and 30 MHz bandwidth. License (A or B) is granted for a Major Trading Areas (MTAs). License (C to F) is granted for a Basic Trading Areas (BTAs). There are 51 MTAs and 493 BTAs in the United States.

The AWS bands, auctioned in the summer of 2006, were for 1710-1755 MHz, and 2110-2155 MHz. The spectrum was divided into blocks: A blocks were for Cellular Market Areas, based on existing cellular (1G) licenses, and were 2x10 MHz. B and C blocks (2x10 MHz and 2x5 MHz respectively) were for Basic Economic Areas, larger than CMAs, usually comprising of large portions of single states. D, E, and F blocks covered huge areas of the country, typically several states at a time, and covered 2x5 MHz for D and E blocks, 2x10 MHz for F.[1]

The 700 MHz band was auctioned in early 2008, with Verizon Wireless and AT&T Mobility winning the majority of available spectrum. Qualcomm and Echostar were winners of a significant amount of broadcast-oriented spectrum. The winners have not yet announced what technology they intend to deploy on this spectrum, but it is expected to host a range of 3G, 4G, and broadcast technologies such as MediaFlo and DVB-H.

Bill--

I slightly disagree with your interpretation of CFR regulation # 22.935, specifically what is a Cellular Telephone"
Cellular is defined in CFR 20.12 as "800 and 900 MHz bands".
http://edocket.access.gpo.gov/cfr_2006/octqtr/pdf/47cfr20.12.pdf
Cellular bands on Wikipedia are defined as 824-849, 869-894, 896-901, and 935-940 MHz.
Telephone is a device that converts electrical signals into sound, and converts sound into electrical signals. If you take the speakers out of a telephone, it is no longer a telephone.

:)

-----Original Message-----
From: Chris Fries <ccfries@...>
To: wb8elk@...; balloon_sked@yahoogroups.com; GPSL@yahoogroups.com; scott@...
Sent: Fri, Apr 30, 2010 3:37 pm
Subject: Re: [Balloon_Sked] Cellphones in balloons legal?

Bill--

I slightly disagree with your interpretation of CFR regulation # 22.935, specifically what is a Cellular Telephone"
Cellular is defined in CFR 20.12 as "800 and 900 MHz bands".
http://edocket.access.gpo.gov/cfr_2006/octqtr/pdf/47cfr20.12.pdf
Cellular bands on Wikipedia are defined as 824-849, 869-894, 896-901, and 935-940 MHz.
Telephone is a device that converts electrical signals into sound, and converts sound into electrical signals. If you take the speakers out of a telephone, it is no longer a telephone.

:)

I also agree, coverage generally sucks unless you have a directional antenna, it's tuned at the band you're looking for, and you also are pointed straight down. We (Ivory team) had one phone go 1200 miles over 23 hours at ~20,000 feet, and not get a single message until it landed in a tree despite trying every hour. It had no directional antenna at all, just the built-in one. It also weighed like 90 grams, we decided to try to compromise on the "light" side.

Anyway... our lesson was, if you're going to use a phone or 3G data card, add a directional antenna. Helix and Yagi worked for us (though the Helix negatively impacted GPS altitude caltulations since it was pointed down and it was our only antenna.) Also, it makes more sense if you have a large pile of free phones and source code to compile the guts of the phones. Even so, we may spring for a satellite pager if we get serious about long-distance flights again.

See also paper: "GSM Applications for Airborne Platforms", who did some statistics on call success rates from a private plane. It wasn't great, as expected.
https://drachma.colorado.edu/dspace/bitstream/123456789/103/1/GSM+applications+for+airborne+platforms.pdf

-Chris

From: "wb8elk@..." <wb8elk@...>
To: balloon_sked@yahoogroups.com; GPSL@yahoogroups.com; scott@...
Sent: Thu, April 29, 2010 11:14:03 PM
Subject: [Balloon_Sked] Cellphones in balloons legal?

Hi Scott....Ron was using the EVDO card in his car to send the reports via a UI-View I-Gate in his car, not in the balloon.

Using the cellular phone network from a balloon is something that a few folks including the MIT students are promoting to the general public as a primary balloon position reporting method (even though it would appear to be prohibited even in balloons by regulation CFR# 22.935 - link shown below - Mike Manes of EOSS previously posted a similar link on this topic)....The method being promoted to the general public for balloons involves using cheap Boost Mobile cell phones with built-in GPS. They use websites such as Instamapper. com or

accutracker. com to see their reports....usually due to the nature of cell networks, once the balloon is high enough to hit multiple cell sites, no one wins and they get nothing back. I have a terrible time of it trying to use my cell phone even at my mountaintop house and I'm only 500 feet above average terrain....The MIT students got very lucky on their first flight and had a hit just before they landed and very spotty coverage during most of the flight on their first mission, but had nearly zero results on their next few missions. One of them did get his ham license and now uses amateur radio tracking with good results..... however, they still promote cell phones on their online Balloon Guide. Also, the Instamapper website (or perhaps the output of the Boost Mobile cell GPS) truncates the altitude above 22,000 feet so even though they might get some coverage higher than that, it just keeps reporting 22k feet. The only good use for cell phones on balloons would be as a backup recovery method as long it's in range of a cell tower once on the ground. So as a "Phone-Home" use after landing a cell phone system could be quite useful as a backup for APRS. However, it's much better to use a FindMeSpot unit for that as I've had great results using a Spot as backup recovery info once landed. I've already received a number of emails from folks who lost their cell phone balloon payloads and are asking about better ways to track them, so I try to steer them towards the amateur radio route.

The most successful use of cell phone reporting from a balloon was done by the innovative Ivory Copter folks (using a bunch of mylar party balloons) who pointed a directional antenna straight down from their payload, but even then they had spotty coverage. They were even sending down live still photos during the flight from the cell phone camera. Since they are on one of these lists, perhaps they can offer some insight into the legality of using cellphones from balloons.... it's possible that there is an exception to the rule for unmanned research balloons but I haven't found that info as yet.

I found this posting about cell phone usage in balloons and airplanes which seems to be quite clear about not using cell phones while airborne even in balloons:

>Cellular telephones installed in or carried aboard airplanes, balloons or any other type of aircraft must not be operated while such >aircraft are airborne (not touching the ground). When any aircraft leaves the ground, all cellular telephones on board that aircraft must >be turned off.

CFR regulation # 22.935
http://edocket. access.gpo. gov/cfr_2006/ octqtr/pdf/ 47cfr22.935. pdf

So in addition to the fact that government regulations appears to prohibit it, the very nature of cell tower sites means that it doesn't work well during flight.

Much better for license-free balloon flights to use Maxstream 900 MHz units (such as the 9Xtend) with the FindMeSpot as a backup.

However, the price will be substantially more than the $150 cost mentioned by the MIT balloon guide (our normal ARHAB flights will usually cost more than that just for the balloon and helium/hydrogen) . That is only achievable by using very small eBay surplus balloons, donated helium or hydrogen and then you'll still be nearly $200 for the Maxstream unit by itself....a safe estimate for a license-free payload using a Maxstream 9Xtend, GPS receiver and Spot payload cost would be about $400....not to mention the ground station costs of $200 for the ground unit, $50 to $100 for the antenna and the $149 a year subscription for the Spot unit.

So getting your amateur radio license would appear to be a fiscally responsible thing to do if you're planning to get into high altitude ballooning as you then can utilize the extensive APRS network and entice all those balloon-chaser hams who will happily climb remote mountains, hike into "Deliverance Country", scale trees, risk stampeding buffalos and tromp through alligator-infested swamps without hesistation in their quest to find your APRS balloon payloads.

- Bill WB8ELK

-----Original Message-----
From: Scott Miller <scott@opentrac. org>
To: ronald74 <APRSdash9@gmail. com>
Cc: Balloon_Sked@ yahoogroups. com
Sent: Thu, Apr 29, 2010 10:11 pm
Subject: Re: [Balloon_Sked] BASE 42 - Recovered

What's the legality of using EVDO while airborne? I thought there were some restrictions on that...

Scott
N1VG

ronald74 wrote:
>
>
> Hi Folks,
>
> I won't steal Howards thunder, but we flew two GPS trackers N9QGS-11 and
> W9YJ-11, both worked well, and with the use of a EVDO card in my vehicle
> we were able to bring the data all the way down to the ground.
>
> Prediction software were very accurate today. it was just a perfect
> balloon recovery, about 20 to 30 feet off the side of the road in farm
> field that has not started sprouting anything, so it was a 10-15 second
> walk from the car to snatch it.
>
> >From
my aspect, I was in general satisfied with the first use of an
> EVDO to bring the balloon data all the way to the ground. But I had some
> other complication going on with the GPS side inside UI-View mainly I
> believe with a program GPSGate locking up and not recovering causing me
> to loose GPS position within UI View. I may try by-passing this and
> using a serial GPS with a Serial to USB adapter.
>
> I was not able to keep up with anything more than UI View, but someday
> maybe streaming a recovery would be neat to try.
>
> Ron N9QGS
>
>

------------ --------- --------- ------

Yahoo! Groups Links

Hi Scott....Ron was using the EVDO card in his car to send the reports via a UI-View I-Gate in his car, not in the balloon.

Using the cellular phone network from a balloon is something that a few folks including the MIT students are promoting to the general public as a primary balloon position reporting method (even though it would appear to be prohibited even in balloons by regulation CFR# 22.935 - link shown below - Mike Manes of EOSS previously posted a similar link on this topic)....The method being promoted to the general public for balloons involves using cheap Boost Mobile cell phones with built-in GPS. They use websites such as Instamapper. com or accutracker. com to see their reports....usually due to the nature of cell networks, once the balloon is high enough to hit multiple cell sites, no one wins and they get nothing back. I have a terrible time of it trying to use my cell phone even at my mountaintop house and I'm only 500 feet above average terrain....The MIT students got very lucky on their first flight and had a hit just before they landed and very spotty coverage during most of the flight on their first mission, but had nearly zero results on their next few missions. One of them did get his ham license and now uses amateur radio tracking with good results..... however, they still promote cell phones on their online Balloon Guide. Also, the Instamapper website (or perhaps the output of the Boost Mobile cell GPS) truncates the altitude above 22,000 feet so even though they might get some coverage higher than that, it just keeps reporting 22k feet. The only good use for cell phones on balloons would be as a backup recovery method as long it's in range of a cell tower once on the ground. So as a "Phone-Home" use after landing a cell phone system could be quite useful as a backup for APRS. However, it's much better to use a FindMeSpot unit for that as I've had great results using a Spot as backup recovery info once landed. I've already received a number of emails from folks who lost their cell phone balloon payloads and are asking about better ways to track them, so I try to steer them towards the amateur radio route.

The most successful use of cell phone reporting from a balloon was done by the innovative Ivory Copter folks (using a bunch of mylar party balloons) who pointed a directional antenna straight down from their payload, but even then they had spotty coverage. They were even sending down live still photos during the flight from the cell phone camera. Since they are on one of these lists, perhaps they can offer some insight into the legality of using cellphones from balloons.... it's possible that there is an exception to the rule for unmanned research balloons but I haven't found that info as yet.

I found this posting about cell phone usage in balloons and airplanes which seems to be quite clear about not using cell phones while airborne even in balloons:

>Cellular telephones installed in or carried aboard airplanes, balloons or any other type of aircraft must not be operated while such >aircraft are airborne (not touching the ground). When any aircraft leaves the ground, all cellular telephones on board that aircraft must >be turned off.

CFR regulation # 22.935
http://edocket. access.gpo. gov/cfr_2006/ octqtr/pdf/ 47cfr22.935. pdf

So in addition to the fact that government regulations appears to prohibit it, the very nature of cell tower sites means that it doesn't work well during flight.

Much better for license-free balloon flights to use Maxstream 900 MHz units (such as the 9Xtend) with the FindMeSpot as a backup.

However, the price will be substantially more than the $150 cost mentioned by the MIT balloon guide (our normal ARHAB flights will usually cost more than that just for the balloon and helium/hydrogen) . That is only achievable by using very small eBay surplus balloons, donated helium or hydrogen and then you'll still be nearly $200 for the Maxstream unit by itself....a safe estimate for a license-free payload using a Maxstream 9Xtend, GPS receiver and Spot payload cost would be about $400....not to mention the ground station costs of $200 for the ground unit, $50 to $100 for the antenna and the $149 a year subscription for the Spot unit.

So getting your amateur radio license would appear to be a fiscally responsible thing to do if you're planning to get into high altitude ballooning as you then can utilize the extensive APRS network and entice all those balloon-chaser hams who will happily climb remote mountains, hike into "Deliverance Country", scale trees, risk stampeding buffalos and tromp through alligator-infested swamps without hesistation in their quest to find your APRS balloon payloads.

- Bill WB8ELK

-----Original Message-----
From: Scott Miller <scott@opentrac. org>
To: ronald74 <APRSdash9@gmail. com>
Cc: Balloon_Sked@ yahoogroups. com
Sent: Thu, Apr 29, 2010 10:11 pm
Subject: Re: [Balloon_Sked] BASE 42 - Recovered

What's the legality of using EVDO while airborne? I thought there were
some restrictions on that...

Scott
N1VG

ronald74 wrote:
>
>
> Hi Folks,
>
> I won't steal Howards thunder, but we flew two GPS trackers N9QGS-11 and
> W9YJ-11, both worked well, and with the use of a EVDO card in my vehicle
> we were able to bring the data all the way down to the ground.
>
> Prediction software were very accurate today. it was just a perfect
> balloon recovery, about 20 to 30 feet off the side of the road in farm
> field that has not started sprouting anything, so it was a 10-15 second
> walk from the car to snatch it.
>
> >From
my aspect, I was in general satisfied with the first use of an
> EVDO to bring the balloon data all the way to the ground. But I had some
> other complication going on with the GPS side inside UI-View mainly I
> believe with a program GPSGate locking up and not recovering causing me
> to loose GPS position within UI View. I may try by-passing this and
> using a serial GPS with a Serial to USB adapter.
>

> I was not able to keep up with anything more than UI View, but someday
> maybe streaming a recovery would be neat to try.
>
> Ron N9QGS
>
>

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Yahoo! Groups Links

6934. Project: Traveler Flight Status

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 02:28:34 UTC
From: Zack Clobes
Topic: 6934 Message: 6934

Other than winds-aloft, everything is looking good for tomorrow's flight.
We plan on filling at 7:30 at the Hutchinson Airport (Wells Aircraft), and
launch around 8:30.

The winds upstairs are pretty nasty - straight out of the south-west,
varying between about 40mph and 140mph. Our 2 hour flight will be landing
about 2.5 hours (by car) from us. If there's anyone down-wind in the
Manhattan area, we would be appreciative of any tracking assistance.

We will be chasing on UHF 446.000MHz. My cell number is 620-960-6898.

I have my website updated for tracking and (live) Twitter updates.

Direct Twitter updates at http://twitter.com/projecttraveler/

Tracking is coming from W0ZC-11 and AJ0NR-11.
http://www.projecttraveler.org/traveler/index.php?option=com_content&view=article&id=74&Itemid=66

Flight Info and Predictions
http://www.projecttraveler.org/traveler/index.php?option=com_content&view=article&id=71&Itemid=53

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6935. Re: [GPSL] Balloon Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 02:38:00 UTC
From: Mike Manes
Topic: 6923 Message: 6935

Hi Paul,

Yeah, Kaymont does run out of inventory from time to time, and there's about a 90-day lead time on orders. So we generally keep at least a 3-month supply on in our own inventory. At least once, we've bought out all of Kaymont's stock with a single order with the balance on back order.

Scientific Sales distributes the other Japanese make latex balloons. We've had some bad luck with some of their products, including a 2000 gm that a 2" diameter hole in it, circled in magic marked and labeled "HOLE" that wasn't discovered until we rolled it out on launch morning. We asked for a refund, but all they offered us was a credit.

73 de Mike W5VSI

On 4/30/2010 11:46, L. Paul Verhage wrote:
>
>
> Kaymon is out of there 1200 gram balloons and don't know when they'll be
> back in stock. Has anyone run into a problem liek this with Kaymont?
> They've been good for me in the past, but I haven't had to order a
> balloon in over a year.
> Also, what is the name of the other supplier people have used, was it
> Scientific Supply? As I recall, they were rather pricey.
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6936. Re: [GPSL] Scientific Sales

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 02:38:41 UTC
From: Mike Manes
Topic: 6924 Message: 6936

And half the quality ...

On 4/30/2010 11:48, L. Paul Verhage wrote:
>
>
> Okay, I see it's Scientific Sales.
> They want $110 for a 1200 gram balloon, which is about twice the Kaymont
> price.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6937. Re: [GPSL] Balloon Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 02:52:23 UTC
From: Mike Manes
Topic: 6923 Message: 6937

Well, I'm not ready to dis the Chinese product quality any more. All
the Li-ion's in EOSS payloads are Chinese, and so is the balance charger.
They've all performed darn well for us over the last 3 years and 30 flights.

I see that Ningbo Yunhaun does have an ISO 9000:2000 Cert, and that's
no mean feat, having struggled thru that process at the Ol' Ulcer Factory
years ago. I guess what they need is a US distributor.

Was that $80 price retail or OEM to distributor pricing?

73 de Mike W5VSI

On 4/30/2010 12:04, Joe wrote:
> This guy has been chasing me for probably ohhh 8 years or so to come
> into the USA market. But i just don't have the cash to do it.
>
> But the last set of prices he gave me were incredible. Now grant you
> they are made in China, sooo quality level is,,,, well,,,, you know. but
> the prices were like super crazy like a 2000 gram was only like 80 bucks!
>
> http://www.yunhuanelectronics.com/Meteorological_Balloon.htm
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 4/30/2010 12:46 PM, L. Paul Verhage wrote:
>> Kaymon is out of there 1200 gram balloons and don't know when they'll
>> be back in stock. Has anyone run into a problem liek this with
>> Kaymont? They've been good for me in the past, but I haven't had to
>> order a balloon in over a year.
>> Also, what is the name of the other supplier people have used, was it
>> Scientific Supply? As I recall, they were rather pricey.
>> Thanks
>>
>> --
>> Onwards and Upwards,
>> Paul

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

6938. Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 14:24:38 UTC
From: Joe
Topic: 6938 Message: 6938
Attachments: 1 described; binary payloads are missing from this source WARC

Morning All.

Well NSS-48 was scrubbed due to weather. it's dry and nice nd clear, and ground winds like 5 MPh. but upper winds are like 200 Mile + flights and 90% chance of landing in lake Michigan. So tenetive re sked is next Sunday.

But i have a question. How does the whole prediction machine work?

I know it's based on the ball trak program. But what I'm trying to see how it works is where does it get it's sounding datas sets from?

I'm somewhat in a no mans land. as far as NWS balloon launch sites go. Im in EN43xo (roughly 43N and 90W) So pretty close to equidistant of three sounding sites

GRB, MPX, and DVN.

And when i run a prediction for each of them i get a different flight results. which of course is expected. Like just now i ran them. and the results came to be as follows the results is bearing in deg and distance in miles

GRB-43.7/207
MPX error
DVN 53/209

Ok now station list how does that work? Like the wisconsin list, http://nearspaceventures.com/w3Baltrak/htdocs/stationlist.html#WI there are 48 of them! I know balloons do not get launched from all of these, there s only one actual launch site GRB (Green Bay)
The closest to the actual launch site for today is called CMY, it's like 5 miles away.and it's report is

CMY-47.2/211
It's location is shown as
CMY MCCOY (USA-AF) 43.97 -90.73 256

Next closest of VOK
VOK VOLK/CAMP DOUGLAS 43.93 -90.27 277

It's about 23 Miles apart.
And it spits out this for a prediction,
VOK 47.2 /208

Close but again different.

So with only GRB as a balloon site in WI and the other two MPX and DVN being clsosest to me.

How is this actually working? When i choose station CMY say, is it looking at the three data sets and averaging them out by weight of how cloes to each one CMY is?

or what is actually happening when I choose CMY?

Joe WB9SBD
Near Space Sciences KB9KHO

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6939. Re: [GPSL] Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 14:39:03 UTC
From: BASE
Topic: 6938 Message: 6939
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,
The Air Resources Laboratory of NOAA uses the sounding data to make predictions at various air fields across the country. A simple view would be a weighted average of nearby soundings.
There are no sounding balloons in Indiana. I tend to use the ILX from Lincoln, Illinois since most of the upper air masses move from west to east. I will also use ILN in Wilmington, Ohio as a check, and more often for the winter flights. Generally, when flying from Greencastle, I use the IND (Indianapolis predictions), although I have used BMG (Bloomington, IN) and HUF (Terre Haute).
The set of predicted distance and headings are typical for the expected scatter from the models.
Personally, the bigger error arises from the fact that we use a predicted wind field for one moment in time and our flights last two hours (or more). I always run predictions using winds from T-3 hrs to T+3 hrs (and an even wider time spread if a frontal passage is nearby).
Howard

--- On Sat, 5/1/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Near Space Ventures Flight Prediction Page
To: GPSL@yahoogroups.com
Date: Saturday, May 1, 2010, 10:24 AM

Morning All.

Well NSS-48 was scrubbed due to weather. it's dry and nice
nd clear, and ground winds like 5 MPh. but upper winds are like 200
Mile + flights and 90% chance of landing in lake Michigan. So
tenetive re sked is next Sunday.

But i have a question. How does the whole prediction machine work?

I know it's based on the ball trak program. But what I'm trying to see
how it works is where does it get it's sounding datas sets from?

I'm somewhat in a no mans land. as far as NWS balloon launch sites go.
Im in EN43xo (roughly 43N and 90W) So pretty close to equidistant of
three sounding sites

GRB, MPX, and DVN.

And when i run a prediction for each of them i get a different flight
results. which of course is expected. Like just now i ran them. and
the results came to be as follows the results is bearing in deg and
distance in miles

GRB-43.7/207

MPX error

DVN 53/209

Ok now station list how does that work? Like the wisconsin list,

http://nearspaceventures.com/w3Baltrak/htdocs/stationlist.html#WI

there are 48 of them! I know balloons do not get launched from all of these, there s only one actual launch site GRB (Green Bay)

 The closest to the actual launch site for today is called CMY, it's like 5 miles away.and it's report is

CMY-47.2/211

It's location is shown as

CMY
MCCOY (USA-AF)
43.97
-90.73
256

Next closest of VOK

VOK
VOLK/CAMP DOUGLAS
43.93
-90.27
277

It's about 23 Miles apart.

And it spits out this for a prediction,

VOK 47.2 /208

Close but again different.

So with only GRB as a balloon site in WI and the other two MPX and DVN being clsosest to me.

How is this actually working? When i choose station CMY say, is it looking at the three data sets and averaging them out by weight of how cloes to each one CMY is?

or what is actually happening when I choose CMY?

Joe WB9SBD

Near Space Sciences KB9KHO

--

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

6940. Re: [GPSL] Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 14:42:44 UTC
From: Keith Kaiser
Topic: 6938 Message: 6940

Joe, I've very glad you answered that... and so well. Thank you.

On May 1, 2010, at 9:39 AM, BASE wrote:

> Joe,
>
> The Air Resources Laboratory of NOAA uses the sounding data to make predictions at various air fields across the country. A simple view would be a weighted average of nearby soundings.
>
> There are no sounding balloons in Indiana. I tend to use the ILX from Lincoln, Illinois since most of the upper air masses move from west to east. I will also use ILN in Wilmington, Ohio as a check, and more often for the winter flights. Generally, when flying from Greencastle, I use the IND (Indianapolis predictions), although I have used BMG (Bloomington, IN) and HUF (Terre Haute).
>
> The set of predicted distance and headings are typical for the expected scatter from the models.
>
> Personally, the bigger error arises from the fact that we use a predicted wind field for one moment in time and our flights last two hours (or more). I always run predictions using winds from T-3 hrs to T+3 hrs (and an even wider time spread if a frontal passage is nearby).
>
> Howard
>
> --- On Sat, 5/1/10, Joe <nss@...> wrote:
>
> From: Joe <nss@...>
> Subject: [GPSL] Near Space Ventures Flight Prediction Page
> To: GPSL@yahoogroups.com
> Date: Saturday, May 1, 2010, 10:24 AM
>
> Morning All.
>
> Well NSS-48 was scrubbed due to weather. it's dry and nice nd clear, and ground winds like 5 MPh. but upper winds are like 200 Mile + flights and 90% chance of landing in lake Michigan. So tenetive re sked is next Sunday.
>
> But i have a question. How does the whole prediction machine work?
>
> I know it's based on the ball trak program. But what I'm trying to see how it works is where does it get it's sounding datas sets from?
>
> I'm somewhat in a no mans land. as far as NWS balloon launch sites go. Im in EN43xo

(roughly 43N and 90W) So pretty close to equidistant of three sounding sites
>
> GRB, MPX, and DVN.
>
> And when i run a prediction for each of them i get a different flight results. which of course is expected. Like just now i ran them. and the results came to be as follows the results is bearing in deg and distance in miles
>
> GRB-43.7/207
> MPX error
> DVN 53/209
>
> Ok now station list how does that work? Like the wisconsin list,
> http://nearspaceventures.com/w3Baltrak/htdocs/stationlist.html#WI
> there are 48 of them! I know balloons do not get launched from all of these, there s only one actual launch site GRB (Green Bay)
> The closest to the actual launch site for today is called CMY, it's like 5 miles away.and it's report is
>
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> It's location is shown as
> CMY MCCOY (USA-AF) 43.97 -90.73 256
> Next closest of VOK
> VOK VOLK/CAMP DOUGLAS 43.93 -90.27 277 It's about 23 Miles apart.
> And it spits out this for a prediction,
> VOK 47.2 /208
>
> Close but again different.
>
> So with only GRB as a balloon site in WI and the other two MPX and DVN being clsosest to me.
>
> How is this actually working? When i choose station CMY say, is it looking at the three data sets and averaging them out by weight of how cloes to each one CMY is?
>
> or what is actually happening when I choose CMY?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> --
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6941. Re: [GPSL] Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 14:51:30 UTC
From: Joe
Topic: 6938 Message: 6941
Attachments: 2 described; binary payloads are missing from this source WARC

Thank You

so it does do a weighted average of the closest actual sounding
flights. way cool dudes! very well done!

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/1/2010 9:39 AM, BASE wrote:
> Joe,
>
> The Air Resources Laboratory of NOAA uses the sounding data to make
> predictions at various air fields across the country. A simple view
> would be a weighted average of nearby soundings.
>
> There are no sounding balloons in Indiana. I tend to use the ILX from
> Lincoln, Illinois since most of the upper air masses move from west to
> east. I will also use ILN in Wilmington, Ohio as a check, and more
> often for the winter flights. Generally, when flying from
> Greencastle, I use the IND (Indianapolis predictions), although I have
> used BMG (Bloomington, IN) and HUF (Terre Haute).
>
> The set of predicted distance and headings are typical for the
> expected scatter from the models.
>
> Personally, the bigger error arises from the fact that we use a
> predicted wind field for one moment in time and our flights last two
> hours (or more). I always run predictions using winds from T-3 hrs to
> T+3 hrs (and an even wider time spread if a frontal passage is nearby).
>
> Howard
>
> --- On *Sat, 5/1/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: [GPSL] Near Space Ventures Flight Prediction Page
> To: GPSL@yahoogroups.com
> Date: Saturday, May 1, 2010, 10:24 AM
>
> Morning All.

>
> Well NSS-48 was scrubbed due to weather. it's dry and nice nd
> clear, and ground winds like 5 MPh. but upper winds are like 200
> Mile + flights and 90% chance of landing in lake Michigan. So
> tenetive re sked is next Sunday.
>
> But i have a question. How does the whole prediction machine work?
>
> I know it's based on the ball trak program. But what I'm trying
> to see how it works is where does it get it's sounding datas sets
> from?
>
> I'm somewhat in a no mans land. as far as NWS balloon launch sites
> go. Im in EN43xo (roughly 43N and 90W) So pretty close to
> equidistant of three sounding sites
>
> GRB, MPX, and DVN.
>
> And when i run a prediction for each of them i get a different
> flight results. which of course is expected. Like just now i ran
> them. and the results came to be as follows the results is
> bearing in deg and distance in miles
>
> GRB-43.7/207
> MPX error
> DVN 53/209
>
> Ok now station list how does that work? Like the wisconsin list,
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> there are 48 of them! I know balloons do not get launched from
> all of these, there s only one actual launch site GRB (Green Bay)
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> it's like 5 miles away.and it's report is
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>
> Next closest of VOK
> VOK VOLK/CAMP DOUGLAS 43.93 -90.27 277
>
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>
> Close but again different.
>
> So with only GRB as a balloon site in WI and the other two MPX
> and DVN being clsosest to me.

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> How is this actually working? When i choose station CMY say, is
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> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>

6942. Re: [GPSL] Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 14:53:00 UTC
From: Joe
Topic: 6938 Message: 6942
Attachments: 2 described; binary payloads are missing from this source WARC

Now of that file that we copy and paste into the other window, what
part of that file would we copy, if we wanted to enter the data into the
balltrak program?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/1/2010 9:39 AM, BASE wrote:
> Joe,
>
> The Air Resources Laboratory of NOAA uses the sounding data to make
> predictions at various air fields across the country. A simple view
> would be a weighted average of nearby soundings.
>
> There are no sounding balloons in Indiana. I tend to use the ILX from
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> east. I will also use ILN in Wilmington, Ohio as a check, and more
> often for the winter flights. Generally, when flying from
> Greencastle, I use the IND (Indianapolis predictions), although I have
> used BMG (Bloomington, IN) and HUF (Terre Haute).
>
> The set of predicted distance and headings are typical for the
> expected scatter from the models.
>
> Personally, the bigger error arises from the fact that we use a
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> hours (or more). I always run predictions using winds from T-3 hrs to
> T+3 hrs (and an even wider time spread if a frontal passage is nearby).
>
> Howard
>
> --- On *Sat, 5/1/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: [GPSL] Near Space Ventures Flight Prediction Page
> To: GPSL@yahoogroups.com
> Date: Saturday, May 1, 2010, 10:24 AM
>
> Morning All.
>

> Well NSS-48 was scrubbed due to weather. it's dry and nice nd
> clear, and ground winds like 5 MPh. but upper winds are like 200
> Mile + flights and 90% chance of landing in lake Michigan. So
> tenetive re sked is next Sunday.
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> But i have a question. How does the whole prediction machine work?
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> I know it's based on the ball trak program. But what I'm trying
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> from?
>
> I'm somewhat in a no mans land. as far as NWS balloon launch sites
> go. Im in EN43xo (roughly 43N and 90W) So pretty close to
> equidistant of three sounding sites
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> GRB, MPX, and DVN.
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> And when i run a prediction for each of them i get a different
> flight results. which of course is expected. Like just now i ran
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> Ok now station list how does that work? Like the wisconsin list,
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> there are 48 of them! I know balloons do not get launched from
> all of these, there s only one actual launch site GRB (Green Bay)
> The closest to the actual launch site for today is called CMY,
> it's like 5 miles away.and it's report is
>
> CMY-47.2/211
> It's location is shown as
> CMY MCCOY (USA-AF) 43.97 -90.73 256
>
>
> Next closest of VOK
> VOK VOLK/CAMP DOUGLAS 43.93 -90.27 277
>
> It's about 23 Miles apart.
> And it spits out this for a prediction,
> VOK 47.2 /208
>
> Close but again different.
>
> So with only GRB as a balloon site in WI and the other two MPX
> and DVN being clsosest to me.
>

> How is this actually working? When i choose station CMY say, is
> it looking at the three data sets and averaging them out by weight
> of how cloes to each one CMY is?
>
> or what is actually happening when I choose CMY?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>

6943. Re: [GPSL] Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 17:39:03 UTC
From: wb8elk@aol.com
Topic: 6938 Message: 6943
Attachments: 2 described; binary payloads are missing from this source WARC

Joe...copy the whole GFS prediction file text, save it on your drive, remember what you named it and it will work on the PC version of Balloon Track.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, May 1, 2010 9:53 am
Subject: Re: [GPSL] Near Space Ventures Flight Prediction Page

Now of that file that we copy and paste into the other window, what part of that file would we copy, if we wanted to enter the data into the balltrak program?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/1/2010 9:39 AM, BASE wrote:

Joe,

The Air Resources Laboratory of NOAA uses the sounding data to make predictions at various air fields across the country. A simple view would be a weighted average of nearby soundings.

There are no sounding balloons in Indiana. I tend to use the ILX from Lincoln, Illinois since most of the upper air masses move from west to east. I will also use ILN in Wilmington, Ohio as a check, and more often for the winter flights. Generally, when flying from Greencastle, I use the IND (Indianapolis predictions), although I have used BMG (Bloomington, IN) and HUF (Terre Haute).

The set of predicted distance and headings are typical for the expected scatter from the models.

Personally, the bigger error arises from the fact that we use a predicted wind field for one moment in time and our flights last two hours (or more). I always run predictions using winds from T-3 hrs to T+3 hrs (and an even wider time spread if a frontal passage is nearby).

Howard

--- On Sat, 5/1/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Near Space Ventures Flight Prediction Page
To: GPSL@yahoogroups.com
Date: Saturday, May 1, 2010, 10:24 AM

Morning All.

Well NSS-48 was scrubbed due to weather. it's dry and nice nd clear, and ground winds like 5 MPh. but upper winds are like 200 Mile + flights and 90% chance of landing in lake Michigan. So tenetive re sked is next Sunday.

But i have a question. How does the whole prediction machine work?

I know it's based on the ball trak program. But what I'm trying to see how it works is where does it get it's sounding datas sets from?

I'm somewhat in a no mans land. as far as NWS balloon launch sites go. Im in EN43xo (roughly 43N and 90W) So pretty close to equidistant of three sounding sites

GRB, MPX, and DVN.

And when i run a prediction for each of them i get a different flight results. which of course is expected. Like just now i ran them. and the results came to be as follows the results is bearing in deg and distance in miles

GRB-43.7/207
MPX error
DVN 53/209

Ok now station list how does that work? Like the wisconsin list,
http://nearspaceventures.com/w3Baltrak/htdocs/stationlist.html#WI
there are 48 of them! I know balloons do not get launched from all of these, there s only one actual launch site GRB (Green Bay)
The closest to the actual launch site for today is called CMY, it's like 5 miles away.and it's report is

CMY-47.2/211
It's location is shown as

CMY
MCCOY (USA-AF)
43.97
-90.73
256

Next closest of VOK

VOK
VOLK/CAMP DOUGLAS
43.93
-90.27
277

It's about 23 Miles apart.
And it spits out this for a prediction,

VOK 47.2 /208

Close but again different.

So with only GRB as a balloon site in WI and the other two MPX and DVN being clsosest to me.

How is this actually working? When i choose station CMY say, is it looking at the three data sets and averaging them out by weight of how cloes to each one CMY is?

or what is actually happening when I choose CMY?

Joe WB9SBD
Near Space Sciences KB9KHO

--

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Idle-Tyme.com
http://www.idle-tyme.com

6944. Re: Near Space Ventures Flight Prediction Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 17:52:34 UTC
From: jjdemeyer
Topic: 6938 Message: 6944

If you are using the Flight Track add-in for MapPoint, you can copy the GFS prediction text to the clipboard and paste it into the New Flight Prediction dialog. From there, it displays the prediction on MapPoint. More details here

http://www.surfingsatellites.org/flighttrackhelp/FTWorkFlow.htm#predict

Joe

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Joe...copy the whole GFS prediction file text, save it on your drive, remember what you named it and it will work on the PC version of Balloon Track.
>
> - Bill WB8ELK
>
>
>
>
>
>
>
>
>
> -----Original Message-----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, May 1, 2010 9:53 am
> Subject: Re: [GPSL] Near Space Ventures Flight Prediction Page
>
>
> Now of that file that we copy and paste into the other window, what part of that file would we copy, if we wanted to enter the data into the balltrak program?
>
> Joe
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 5/1/2010 9:39 AM, BASE wrote:
>
>
> Joe,

>
>
> The Air Resources Laboratory of NOAA uses the sounding data to make predictions at various air fields across the country. A simple view would be a weighted average of nearby soundings.
>
>
> There are no sounding balloons in Indiana. I tend to use the ILX from Lincoln, Illinois since most of the upper air masses move from west to east. I will also use ILN in Wilmington, Ohio as a check, and more often for the winter flights. Generally, when flying from Greencastle, I use the IND (Indianapolis predictions), although I have used BMG (Bloomington, IN) and HUF (Terre Haute).
>
>
> The set of predicted distance and headings are typical for the expected scatter from the models.
>
>
> Personally, the bigger error arises from the fact that we use a predicted wind field for one moment in time and our flights last two hours (or more). I always run predictions using winds from T-3 hrs to T+3 hrs (and an even wider time spread if a frontal passage is nearby).
>
>
> Howard
>
> --- On Sat, 5/1/10, Joe <nss@...> wrote:
>
>
> From: Joe <nss@...>
> Subject: [GPSL] Near Space Ventures Flight Prediction Page
> To: GPSL@yahoogroups.com
> Date: Saturday, May 1, 2010, 10:24 AM
>
>
> Morning All.
>
> Well NSS-48 was scrubbed due to weather. it's dry and nice nd clear, and ground winds like 5 MPh. but upper winds are like 200 Mile + flights and 90% chance of landing in lake Michigan. So tenetive re sked is next Sunday.
>
> But i have a question. How does the whole prediction machine work?
>
> I know it's based on the ball trak program. But what I'm trying to see how it works is where does it get it's sounding datas sets from?
>
> I'm somewhat in a no mans land. as far as NWS balloon launch sites go. Im in EN43xo (roughly 43N and 90W) So pretty close to equidistant of three sounding sites
>
> GRB, MPX, and DVN.

>
> And when i run a prediction for each of them i get a different flight results. which of course is expected. Like just now i ran them. and the results came to be as follows the results is bearing in deg and distance in miles
>
> GRB-43.7/207
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> Ok now station list how does that work? Like the wisconsin list,
> http://nearspaceventures.com/w3Baltrak/htdocs/stationlist.html#WI
> there are 48 of them! I know balloons do not get launched from all of these, there s only one actual launch site GRB (Green Bay)
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>
> CMY-47.2/211
> It's location is shown as
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>
> CMY
> MCCOY (USA-AF)
> 43.97
> -90.73
> 256
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>
> Next closest of VOK
>
>
> VOK
> VOLK/CAMP DOUGLAS
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>
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> So with only GRB as a balloon site in WI and the other two MPX and DVN being clsosest to me.
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> How is this actually working? When i choose station CMY say, is it looking at the three data sets and averaging them out by weight of how cloes to each one CMY is?
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>

> Joe WB9SBD
> Near Space Sciences KB9KHO
>
>
> --
>
> The Original Rolling Ball Clock
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> http://www.idle-tyme.com
>

6945. PT 2010a Flight Results

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-01 22:15:15 UTC
From: Zack Clobes
Topic: 6945 Message: 6945

We launched this morning a few minutes past 8:30 from the Hutch airport. Skies were partly cloudy with a rain-ish layer around 10,000'.

We overfilled the 1000g balloon (somewhat intentional considering the winds aloft), and wound up with an ascent rate around 1500'/min. The Canon camera running the CHDK firmware worked great, and we recovered over 300 photos during the flight. Unfortunately, we seem to have picked up a bit of moisture as we passed through the rain cloud, which quickly froze to the camera window. Most of the photos had a series of blurs all over the photo. :-(

The new controller design worked well until we hit 10,000 meters, when it quit reporting GPGGA strings. The GPS engine is an Inventek ISM300-F2, supposedly with the version 4 ballooning firmware. It is outputting at 4800 baud, and worked great again after passing back under 10km on the way back down. This was a major bummer that needs to be resolved right away...
Below are a couple of GGA samples - one good one, and one bad one.

Good
W0ZC-11>APRS:$GPGGA,135719.000,3820.0102,N,09733.9293,W,1,11,0.9,9824.1,M,-26.8,M,,0000*5D

Bad
W0ZC-11>APRS:$GPGGA,135931.006.8,M,,0000*63

Burst happened at 9:38 at 95,820'. Recovery was made by 11:49am after walking nearly a mile across 3 creeks and 3 fences. We had a good lunch at a pizzeria in Manhattan.

I will get some photos uploaded, hopefully yet this evening to www.projecttraveler.org/

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6946. Re: Fwd: A very useful new site (really!)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-02 02:06:06 UTC
From: Mike Manes
Topic: 6946 Message: 6946

No, but thanks! It's like a mathematical / scientific google!
Quite handy.
73 de Mike W5VSI

On 5/1/2010 11:42, Bill Bradford wrote:
> Mike - are you familiar with this? - Bill
>
> ---------- Forwarded message ----------
>
>
> Watch the preview when you have the time and it will boggle your mind.
>
> Watch the Introduction first:
>
> http://www.wolframalpha.com/screencast/introducingwolframalpha.html
>
> Then save the Site in your favorites:
>
> http://www.wolframalpha.com/
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6947. Fwd: Interesting Articles & Video for the geekish amongst us

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-02 02:56:41 UTC
From: Mike Manes
Topic: 6947 Message: 6947

-------- Original Message --------
Subject: Interesting Articles & Video
Date: Sat, 1 May 2010 17:51:07 -0600
From: Bob Z

Japanese Space Yacht, World’s largest laser, Tech Addiction Apollo 11’s liftoff ---

Several interesting articles on this page. Also, you might enjoy the 8 minute, narrated, slow motion video of the 30 seconds in the engine area of Apollo 11’s historic liftoff.

http://news.thomasnet.com/IMT/archives/2010/04/light-friday-04302010-tech-addiction-is-worse-than-we-thought.html?WT.mc_t=blg&WT.mc_n=0510&channel=email

<http://news.thomasnet.com/IMT/archives/2010/04/light-friday-04302010-tech-addiction-is-worse-than-we-thought.html?WT.mc_t=blg&WT.mc_n=0510&channel=email>

Bob Z

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5078 (20100501) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

6948. Re: [GPSL] PT 2010a Flight Results

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-02 06:21:12 UTC
From: wb8elk@aol.com
Topic: 6945 Message: 6948

Zack....I've flown the Inventek ISM 300-F2 GPS modules (with the balloon firmware) for dozens of flights now with excellent results...last time with a recent UAH flight we dropped at over 12,000 ft/min at burst (parachute problem)...and it still maintained a lock. Since I've added the active Sarantel helical antennas to my Inventek board, I now get over 8 to 11 satellites throughout the flight.

Even when the Inventek unit loses lock, you'll still see commas for the lat/lon/sats fields...and the satellite fields will be 0, not a complete absence of those fields as you show. I would check to see if there may be a parsing issue in your code when the altitude field increases by one digit as it gets above 10,000 meters. 10km is too low for there to be a DoD 60k kind of limit problem.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>; Group - Project Traveler <project-traveler-arhab@...>
Sent: Sat, May 1, 2010 5:15 pm
Subject: [GPSL] PT 2010a Flight Results

We launched this morning a few minutes past 8:30 from the Hutch airport. Skies were partly cloudy with a rain-ish layer around 10,000'.

We overfilled the 1000g balloon (somewhat intentional considering the winds aloft), and wound up with an ascent rate around 1500'/min. The Canon camera running the CHDK firmware worked great, and we recovered over 300 photos during the flight. Unfortunately, we seem to have picked up a bit of moisture as we passed through the rain cloud, which quickly froze to the camera window. Most of the photos had a series of blurs all over the photo. :-(

The new controller design worked well until we hit 10,000 meters, when it quit reporting GPGGA strings. The GPS engine is an Inventek ISM300-F2, supposedly with the version 4 ballooning firmware. It is outputting at 4800 baud, and worked great again after passing back under 10km on the way back down. This was a major bummer that needs to be resolved right away... Below are a couple of GGA samples - one good one, and one bad one.

Good
W0ZC-11>APRS:$GPGGA,135719.000,3820.0102,N,09733.9293,W,1,11,0.9,9824.1,M,-26.8,M,,0000*5D

Bad
W0ZC-11>APRS:$GPGGA,135931.006.8,M,,0000*63

Burst happened at 9:38 at 95,820'. Recovery was made by 11:49am after walking nearly a mile across 3 creeks and 3 fences. We had a good lunch at a pizzeria in Manhattan.

I will get some photos uploaded, hopefully yet this evening to www.projecttraveler.org/

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

6949. NSS-48 launch Re schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-02 19:06:57 UTC
From: Joe
Topic: 6949 Message: 6949
Attachments: 1 described; binary payloads are missing from this source WARC

>
> This Saturday 5/8 at 9 AM CDT, (14:00Zulu) Near Space Sciences will be
> launching a test flight of a new GPS to ensure it is flight worthy for
> high altitude use. call used will be KB9KHO-11
>
> This may push the altitude records some. If calculations work correctly, Burst should happen at close to 123,000 feet.. But this is a minimalistic payload
>
> A Microtrac 300 and GPS, that's it. It will be under a 2000 gram
> balloon with H2 for lifting gas.
>
> Should be interesting. It probably won't break any altitude records,
> but it still should place pretty high in the rankings.
>
> the call the payload will be using is KB9KHO-11 on 144.39 300
> milliwatts to a inverted coathanger groundplane.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
--

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http://www.idle-tyme.com

6950. Re: [GPSL] PT 2010a Flight Results

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-03 00:17:49 UTC
From: Zack Clobes
Topic: 6945 Message: 6950

I've found, and I believe fixed the GPS > 10km problem. It was a combination of a buffer being one byte too small, as well as a variable that wasn't getting cleared out between reads of the GPS. Basically, because I couldn't get a good read on the GGA string that would fit into memory, the controller was concatenating two random pieces of strings together and calling that the GGA - that's why I was transmitting what appeared to be an abbreviated GGA string...

After looking back in the logs, it appears that one altitude did happen to make it through the parser by chance. I have a single position at 14:11:32 at an altitude of /A=052626.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, May 2, 2010 at 1:21 AM, <wb8elk@...> wrote:

>
>
> Zack....I've flown the Inventek ISM 300-F2 GPS modules (with the balloon
> firmware) for dozens of flights now with excellent results...last time with
> a recent UAH flight we dropped at over 12,000 ft/min at burst (parachute
> problem)...and it still maintained a lock. Since I've added the active
> Sarantel helical antennas to my Inventek board, I now get over 8 to 11
> satellites throughout the flight.
>
> Even when the Inventek unit loses lock, you'll still see commas for the
> lat/lon/sats fields...and the satellite fields will be 0, not a complete
> absence of those fields as you show. I would check to see if there may be a
> parsing issue in your code when the altitude field increases by one digit as
> it gets above 10,000 meters. 10km is too low for there to be a DoD 60k kind
> of limit problem.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com>; Group - Project Traveler <
> project-traveler-arhab@...>
> Sent: Sat, May 1, 2010 5:15 pm
> Subject: [GPSL] PT 2010a Flight Results
>
>

> We launched this morning a few minutes past 8:30 from the Hutch airport.
> Skies were partly cloudy with a rain-ish layer around 10,000'.
>
> We overfilled the 1000g balloon (somewhat intentional considering the winds
> aloft), and wound up with an ascent rate around 1500'/min. The Canon camera
> running the CHDK firmware worked great, and we recovered over 300 photos
> during the flight. Unfortunately, we seem to have picked up a bit of
> moisture as we passed through the rain cloud, which quickly froze to the
> camera window. Most of the photos had a series of blurs all over the
> photo. :-(
>
>
> The new controller design worked well until we hit 10,000 meters, when it
> quit reporting GPGGA strings. The GPS engine is an Inventek ISM300-F2,
> supposedly with the version 4 ballooning firmware. It is outputting at 4800
> baud, and worked great again after passing back under 10km on the way back
> down. This was a major bummer that needs to be resolved right away...
> Below are a couple of GGA samples - one good one, and one bad one.
>
> Good
>
>
W0ZC-11>APRS:$GPGGA,135719.000,3820.0102,N,09733.9293,W,1,11,0.9,9824.1,M,-26.8,M,,0000*5D
>
> Bad
> W0ZC-11>APRS:$GPGGA,135931.006.8,M,,0000*63
>
>
> Burst happened at 9:38 at 95,820'. Recovery was made by 11:49am after
> walking nearly a mile across 3 creeks and 3 fences. We had a good lunch at
> a pizzeria in Manhattan.
>
> I will get some photos uploaded, hopefully yet this evening to
> www.projecttraveler.org/
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>
>

6951. Seeking Garmin 18

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-03 06:36:15 UTC
From: Mark Caviezel
Topic: 6951 Message: 6951

All:
Say, I am looking to buy a couple Garmin 18's to interface to MT300. Has anyone purchased G18's recently and can recommend a supplier ?

best

- Mark ng0x

6952. Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-05 16:40:36 UTC
From: L. Paul Verhage
Topic: 6952 Message: 6952

Today is the 65th anniversary.

http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon

--
Onwards and Upwards,
Paul

6953. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-05 17:00:00 UTC
From: Joe
Topic: 6952 Message: 6953
Attachments: 1 described; binary payloads are missing from this source WARC

Still is actually amazing they did this way back then.

Joe WB9SBD
Near Space Sciences
KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/5/2010 11:40 AM, L. Paul Verhage wrote:
>
>
> Today is the 65th anniversary.
> http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6954. Jameco article on high-altitude ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-05 19:30:39 UTC
From: Mark Conner
Topic: 6954 Message: 6954

http://www.jameco.com/Jameco/PressRoom/space.html?CID=bbmay2984250&sp_rid=MTgyNDYxMTIwMzMS1&sp_mid=2984250

This was sent out to Jameco e-mail newsletter customers today.

73 de Mark N9XTN

6955. Re: [GPSL] Jameco article on high-altitude ballooning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-05 23:33:16 UTC
From: Joe
Topic: 6954 Message: 6955
Attachments: 1 described; binary payloads are missing from this source WARC

While myself I of course welcome new groups to our adventures. But this type of HYPE has me really scared as to how many people will do this without learning any regulations, or any of the laws governing these flights. With the popularization of this activity in these ways how far down the road are we going to get bfore something bad happens because someone diddn't follow the laws. And in result we end up with ultra tight laws similar to the stuff high power rocketry has.

Maybe we can get Paul to voluntarily try to regulate who gets balloons? Kinda of like Ravens/Aerostar does? Make sure the balloons get to groups that have done flights before or have been mentored by other groups, and not to sell to balloon Boy's Dad in Colorao?

I know this sounds Bad. But with all the press lately that never ever mentions that there are laws that control these flights. it's just inviting anyone to do it without any knowledge at all of the laws.

Joe WB9SBD
Near Space Sciences KB9KHO

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http://www.idle-tyme.com

On 5/5/2010 2:30 PM, Mark Conner wrote:
> http://www.jameco.com/Jameco/PressRoom/space.html?CID=bbmay2984250&sp_rid=MTgyNDYxMTIwMzMS1&sp_mid=2984250
>
> This was sent out to Jameco e-mail newsletter customers today.
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

6956. 70,000 foot Repeater - should be able to work from VE4-VE6 and northern US.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 00:45:45 UTC
From: lpcoates
Topic: 6956 Message: 6956

The first SABRE high altitude balloon launch of 2010 will take place on May 8 at 1400 UTC. We expect that the balloon will be aloft for approximately 2 to 3 hours. What is unique with this flight is that we will be flying a simplex repeater on 147.570. This is a store - forward simplex repeater. You use it by transmitting a short message on simplex at 147.570. When you unkey you should hear your own communication back. Anyone else within range of the repeater will also hear that transmission from the balloon. They can then respond the same way. Without flying duplexes etc we should be able to facilitate communication over a very long distance. We believe that in theory once the balloon gets above 30,000 feet (approximately 30-45 minutes from launch) stations from Manitoba, Saskatchewan, Alberta, Montana and North Dakota and possibly further will be able to hit the repeater and in theory communicate with each other. If you have a directional antenna, point it at Saskatoon or 52N, 106W.

To encourage use of the repeater, the Saskatoon Amateur Radio club is sponsoring an award for communications through the repeater.

The website for VE5AA has the details of the award under the Sabre 9 link.

We would appreciate it if you would publicize the repeater any way you can to try to encourage hams to try and make a contact.

The Saskatoon Web site is for this May 8 Saturday launch is
http://ve5aa.dyndns.org/Balloon/sabre_9.html

Documentation and images from their previous launches are here
http://ve5aa.dyndns.org/Balloon/index.html

Thanks

Bruce - VE5BNC

6957. FAR Part 101

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 04:09:54 UTC
From: Joe
Topic: 6957 Message: 6957
Attachments: 1 described; binary payloads are missing from this source WARC

Just curious, where is the best place to get the latest and most
current edition of this?

Joe
--

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http://www.idle-tyme.com

6958. RE: [GPSL] FAR Part 101

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 07:51:33 UTC
From: Rick von Glahn
Topic: 6957 Message: 6958
Attachments: 1 described; binary payloads are missing from this source WARC

I try and keep a current link at EOSS's website to the FAA site, and incredibly it is up to date but for convenience sake:

http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr
<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=ea968eea871ed9ab23
80f6d979eaa7a6&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14>
&sid=ea968eea871ed9ab2380f6d979eaa7a6&rgn=div5&view=text&node=14:2.0.1.3.15&
idno=14

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Wednesday, May 05, 2010 10:10 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] FAR Part 101

Just curious, where is the best place to get the latest and most current edition of this?

Joe

--

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<http://www.idle-tyme.com> http://www.idle-tyme.com

6959. New GPS unit coming

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 12:30:50 UTC
From: Mark Conner
Topic: 6959 Message: 6959

https://www.argentdata.com/catalog/product_info.php?products_id=137

The unit linked here does not work above 60 kft, but a second model coming soon on Argentdata will.

73 de Mark N9XTN

6960. CNN: Citizens monitor Gulf Coast after oil spill

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 15:12:39 UTC
From: gregwilliams@knology.net
Topic: 6960 Message: 6960

http://www.cnn.com/2010/TECH/05/06/crowdsource.gulf.oil/index.html?hpt=T1

(CNN) -- Here is what MIT student Jeffrey Warren plans to do Thursday:

Walk up and down the Louisiana coast holding a kite string that's tethered to a helium-filled trash bag and a point-and-shoot camera.

The set-up may sound goofy. But Warren's aim is serious.
****

More at the link

6961. Re: CNN: Citizens monitor Gulf Coast after oil spill

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-06 15:43:00 UTC
From: nordlie101
Topic: 6960 Message: 6961

The CNN page links to this site:

http://grassrootsmapping.org/

more on the story, and some interesting pages on things
like helium-filled kites for aerial photography.

--- In GPSL@yahoogroups.com, gregwilliams@... wrote:
>
>
> http://www.cnn.com/2010/TECH/05/06/crowdsource.gulf.oil/index.html?hpt=T1
>
> (CNN) -- Here is what MIT student Jeffrey Warren plans to do Thursday:
>
> Walk up and down the Louisiana coast holding a kite string that's tethered to a
helium-filled trash bag and a point-and-shoot camera.
>
> The set-up may sound goofy. But Warren's aim is serious.
> **********
>
> More at the link
>

6962. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 03:35:17 UTC
From: Mike Manes
Topic: 6952 Message: 6962

One of them landed just a few miles N of EOSS's Windsor CO "Stratoranch"
launch site. It was a dud.
Anyway, it shows that we in ARHAB have 60 years to catch up on!
73 de Mike W5VSI

On 5/5/2010 10:40, L. Paul Verhage wrote:
>
>
> Today is the 65th anniversary.
> http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6963. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 03:55:51 UTC
From: Joe
Topic: 6952 Message: 6963
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mike, And all.

We somewhat talked about this once a while ago. And i wonder if now is the time that we all begin to form a organization for ARHAB activities.

Like the rocketry guys have Tripoli and NAR. Amateur Radio has the ARRL, (wether you like the ARRL or not they play a major role on what happens in the amateur radio hobby)

With the ever increasing publicity of launching things on balloons, and how they say it's soo cheap and how anyone can do it. I'm thinking it's maybe time to form an organization like all the above mentioned, as to a place people that are interested in doing these flights can go to to get more information on how to do it legally and safely etc..

Whats everyone think?

Joe WB9SBD
Near Space Sciences KB9KHO

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Idle-Tyme.com
http://www.idle-tyme.com

On 5/6/2010 10:35 PM, Mike Manes wrote:
> One of them landed just a few miles N of EOSS's Windsor CO "Stratoranch"
> launch site. It was a dud.
> Anyway, it shows that we in ARHAB have 60 years to catch up on!
> 73 de Mike W5VSI
>
> On 5/5/2010 10:40, L. Paul Verhage wrote:
>
>>
>> Today is the 65th anniversary.
>> http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>>
>>
>

6964. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 12:25:24 UTC
From: L. Paul Verhage
Topic: 6952 Message: 6964
Attachments: 1 described; binary payloads are missing from this source WARC

I would advocate a group origanization like NAR. I tried last year to look into group insurance without success. An organization like NAR has rules to follow that I imagine helped them get insurance.

Paul

On Thu, May 6, 2010 at 10:55 PM, Joe <nss@...> wrote:

> Hi Mike, And all.
>
> We somewhat talked about this once a while ago. And i wonder if now is the
> time that we all begin to form a organization for ARHAB activities.
>
> Like the rocketry guys have Tripoli and NAR. Amateur Radio has the ARRL,
> (wether you like the ARRL or not they play a major role on what happens in
> the amateur radio hobby)
>
> With the ever increasing publicity of launching things on balloons, and how
> they say it's soo cheap and how anyone can do it. I'm thinking it's maybe
> time to form an organization like all the above mentioned, as to a place
> people that are interested in doing these flights can go to to get more
> information on how to do it legally and safely etc..
>
> Whats everyone think?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/6/2010 10:35 PM, Mike Manes wrote:
>
> One of them landed just a few miles N of EOSS's Windsor CO "Stratoranch"
> launch site. It was a dud.
> Anyway, it shows that we in ARHAB have 60 years to catch up on!
> 73 de Mike W5VSI
>
> On 5/5/2010 10:40, L. Paul Verhage wrote:
>
>
> Today is the 65th
anniversary.http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon

>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

6965. Huntsville

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 12:26:32 UTC
From: L. Paul Verhage
Topic: 6965 Message: 6965

Bill, I'm sorry to hear about the accident at Huntsville earier this week.
Did you know any of the contractors?

--
Onwards and Upwards,
Paul

6966. Re: [GPSL] Huntsville

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 14:07:15 UTC
From: Joe
Topic: 6965 Message: 6966
Attachments: 1 described; binary payloads are missing from this source WARC

Bill,

What did I miss?

Joe

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http://www.idle-tyme.com

On 5/7/2010 7:26 AM, L. Paul Verhage wrote:
>
>
> Bill, I'm sorry to hear about the accident at Huntsville earier this
> week. Did you know any of the contractors?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6967. Re: [GPSL] Huntsville

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 14:47:15 UTC
From: BASE
Topic: 6965 Message: 6967
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,
There was an explosion Wednesday morning at the Redstone Arsenal, two workers were killed.
 This link gives several articles from the Huntsville Times:
http://topics.al.com/tag/Redstone%20Arsenal%20explosion/index.html
Howard

--- On Fri, 5/7/10, Joe <nss@...> wrote:

From: Joe <nss@mwt.net>
Subject: Re: [GPSL] Huntsville
To: GPSL@yahoogroups.com
Date: Friday, May 7, 2010, 10:07 AM

Bill,

What did I miss?

Joe

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Clock

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Idle-Tyme.com

http://www.idle-tyme.com

On 5/7/2010 7:26 AM, L. Paul Verhage wrote:

Bill, I'm sorry to hear about the accident at Huntsville earier this
week. Did you know any of the contractors?

--

Onwards and Upwards,

Paul

6968. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 15:57:24 UTC
From: Pete Lilja
Topic: 6952 Message: 6968
Attachments: 1 described; binary payloads are missing from this source WARC

I'm all for a national / international organization. A central place to learn about HABing would be good for the hobby, IMO.

And while insurance would be nice it does tend to be rather limited in scope. My homeowner's liability policy cover HAB activities. I have a $1 million dollar rider that covers all my hobbies as long as they are not for profit.

I am a former NAR member and current Tripoli Rocketry Assoc. member. Both groups have a $1 million liability policy that comes along with membership. The policy covers rocket flights that follow the safety code of each organization. I'd guess that a similar policy would be available for HABing but I'd guess members would need to have some rules to follow for the coverage. FAR 101 would probably be sufficient.

As I wrote the above I recalled that the rocket flights covered have a limited geographical area from the launch area. HABing distances are somewhat greater than hobby rocketry so that might be an issue.

I guess my feelings are a "Yes" to an organization for HABists and that an organization would probably be necessary for any liability policy to be established for the members. I'd have to believe that there is less liability in a HAB flight than a high powered rocket flight (and I know from experience that HPR is a safe endeavor despite its appearance).

Pete
KC0GPB

On Fri, May 7, 2010 at 7:25 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I would advocate a group origanization like NAR. I tried last year to look
> into group insurance without success. An organization like NAR has rules to
> follow that I imagine helped them get insurance.
>
> Paul
>
> On Thu, May 6, 2010 at 10:55 PM, Joe <nss@...> wrote:
>
>> Hi Mike, And all.
>>
>> We somewhat talked about this once a while ago. And i wonder if now is
>> the time that we all begin to form a organization for ARHAB activities.
>>
>> Like the rocketry guys have Tripoli and NAR. Amateur Radio has the ARRL,

>> (wether you like the ARRL or not they play a major role on what happens in
>> the amateur radio hobby)
>>
>> With the ever increasing publicity of launching things on balloons, and
>> how they say it's soo cheap and how anyone can do it. I'm thinking it's
>> maybe time to form an organization like all the above mentioned, as to a
>> place people that are interested in doing these flights can go to to get
>> more information on how to do it legally and safely etc..
>>
>> Whats everyone think?
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 5/6/2010 10:35 PM, Mike Manes wrote:
>>
>> One of them landed just a few miles N of EOSS's Windsor CO "Stratoranch"
>> launch site. It was a dud.
>> Anyway, it shows that we in ARHAB have 60 years to catch up on!
>> 73 de Mike W5VSI
>>
>> On 5/5/2010 10:40, L. Paul Verhage wrote:
>>
>>
>> Today is the 65th
anniversary.http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon
>>
>> --
>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
>
>

6969. Re: [GPSL] Huntsville

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-07 17:52:07 UTC
From: wb8elk@aol.com
Topic: 6965 Message: 6969

Hi Paul...no, didn't know them...that building is on the other side of the Arsenal from my building.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Fri, May 7, 2010 7:26 am
Subject: [GPSL] Huntsville

Bill, I'm sorry to hear about the accident at Huntsville earier this week. Did you know any of the contractors?

--
Onwards and Upwards,
Paul

6970. Re: [GPSL] Fu-Go Balloon Article

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-08 02:56:08 UTC
From: Mike Manes
Topic: 6952 Message: 6970

Hi Joe,

IIRC, the subject of forming a national ARHAB organization was on the agenda at a GPSL conference a few years ago, but it got pushed off the the end of the schedule so we could get to more important stuff, like getting a weather brief, trajectory forecast and moving the launch site, or some such nonsense :=).

At the time, there seemed to be a general consensus that maybe the time was right, so maybe we could add it to this year's agenda - except sked it for the morning session this time.

73 de Mike W5VSI

On 5/6/2010 21:55, Joe wrote:
> Hi Mike, And all.
>
> We somewhat talked about this once a while ago. And i wonder if now is
> the time that we all begin to form a organization for ARHAB activities.
>
> Like the rocketry guys have Tripoli and NAR. Amateur Radio has the ARRL,
> (wether you like the ARRL or not they play a major role on what happens
> in the amateur radio hobby)
>
> With the ever increasing publicity of launching things on balloons, and
> how they say it's soo cheap and how anyone can do it. I'm thinking it's
> maybe time to form an organization like all the above mentioned, as to a
> place people that are interested in doing these flights can go to to get
> more information on how to do it legally and safely etc..
>
> Whats everyone think?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/6/2010 10:35 PM, Mike Manes wrote:
>> One of them landed just a few miles N of EOSS's Windsor CO "Stratoranch"
>> launch site. It was a dud.
>> Anyway, it shows that we in ARHAB have 60 years to catch up on!
>> 73 de Mike W5VSI
>>

>> On 5/5/2010 10:40, L. Paul Verhage wrote:
>>
>>>
>>> Today is the 65th anniversary.
>>> http://www.wired.com/thisdayintech/2010/05/0505japanese-balloon-kills-oregon
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>>
>>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6971. NSS-48

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-08 22:26:58 UTC
From: Joe
Topic: 6971 Message: 6971
Attachments: 1 described; binary payloads are missing from this source WARC

Well back from the flight, and If we can find out what the make and model of GPS this was. it would be good to be able to add it to the list of ones to avoid.

Winds aloft were still a tad too brisk to use the 2000 gram balloon, so we flew a 600 gram size. launch was windy winds 10 to 15 gusting to 25, but it left with no problems. The GPS, Failed in it's altitude test. worked perfectly to the 60K mark, but once above it, it either did nothing or it spit out locations that were absolutely impossible. Like in the 60 seconds between transmissions, it would travel like 400 miles. At the measured rate of climb and the fine judging of the predicted landing spot we estimated a 95,000 burst level or so. it fits right in with the predicted profile within a mile. The payload landed safely in the back yard of a farmer. The chase teams were talking in the street thinking of how to go and check into the area it's believed to be in, and were about to go and ask the property owner if they can go in and look around, when the farmer came walking from around the back of the house with payload in hand. Saying,, "Are you guys looking for this"?

Now to find a better GPS.
Joe WB9SBD
Near Space Sciences KB9KHO
--

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http://www.idle-tyme.com

6972. RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 02:12:40 UTC
From: Joe
Topic: 6972 Message: 6972
Attachments: 1 described; binary payloads are missing from this source WARC

Has anyone come up with a way to extract the rate of climb from the raw
APRS data records from a flight. from either aprs.fi or via findu?

Joe
--

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

6973. Re: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 02:30:51 UTC
From: Zack Clobes
Topic: 6972 Message: 6973
Attachments: 1 described; binary payloads are missing from this source WARC

I have a script somewhere that will take the GPRMC's and GPGGA's and split them out into a CSV file. Then I've used some spreadsheet formulas in OpenOffice.org to calc the ascent/descent rates, and even to plot them.

I haven't used it in a few years, but if you want, I can try to dig it out.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sat, May 8, 2010 at 9:12 PM, Joe <nss@...> wrote:

> Has anyone come up with a way to extract the rate of climb from the raw
> APRS data records from a flight. from either aprs.fi or via findu?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6974. gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 03:58:39 UTC
From: Joe
Topic: 6974 Message: 6974
Attachments: 1 described; binary payloads are missing from this source WARC

Hi All,

Ok we all know about that 60K alt limit many GPS's have (we found another today) But when that limit is lifted, is there another limit? window? if so what altitude is it at?

Joe WB9SBD
Near Space Sciences KB9KHO
--

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Idle-Tyme.com
http://www.idle-tyme.com

6975. Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 05:32:18 UTC
From: gandlent
Topic: 6974 Message: 6975

You are speaking of the COCOM limit. Try a Sparkfun Venus634FLPx or equivilent. You may exceed altitude or speed (check the specs) but not both on this unit and there are others you just have to look.

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Hi All,
>
> Ok we all know about that 60K alt limit many GPS's have (we found
> another today) But when that limit is lifted, is there another limit?
> window? if so what altitude is it at?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

6976. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 07:01:29 UTC
From: James Coxon
Topic: 6974 Message: 6976

Hi Joe,

It depends really,
In my experience SIRF III module will go past the 60,000ft limit however then stop working at ~78k ft, they sometimes start working on the way down though have also required a reset before regaining lock.

Ublox modules do work above 60k ft and if set to Airborne mode are rated to work up to 50km (164k ft) - finally there are some ublox modules that are relatively cheap and easy to work with - check out the Falcom FSA03 and the breakout board from Esawdust.

The other GPS of choice is the stalwart Lassen IQ which goes past 60k and has always worked however high it has gone.

The Venus chipset is another choice - the initial batch apparently didn't work above 60k but the manufactures then corrected this and claim that they do work - not sure if anyone has tested this. Unfortunately what is said in the specs doesn't often correspond to the modules regarding COCOM so needs to be tested.

James

On 9 May 2010 06:32, gandlent <gandlent@gandlent.com> wrote:

>
>
>
> You are speaking of the COCOM limit. Try a Sparkfun Venus634FLPx or
> equivilent. You may exceed altitude or speed (check the specs) but not both
> on this unit and there are others you just have to look.
>
>
> --- In GPSL@yahoogroups.com <GPSL%40yahoogroups.com>, Joe <nss@...> wrote:
> >
> > Hi All,
> >
> > Ok we all know about that 60K alt limit many GPS's have (we found
> > another today) But when that limit is lifted, is there another limit?
> > window? if so what altitude is it at?
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
> > --
> >
> > The Original Rolling Ball Clock
> > Idle Tyme

> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
>
>
>

6977. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 14:38:40 UTC
From: Joe
Topic: 6974 Message: 6977
Attachments: 1 described; binary payloads are missing from this source WARC

Hi James,
And everyone on the list.

Very good information below people! Thanks and keep it coming. We will need one that is absolute sure to work way up there, I mean WAY UP THERE! Like way above 125,000.

Yeah we tested an un tested one yesterday. And while below 60K it worked perfectly. FAST lock on. the beacon was set to transmit every 60 seconds. and every time I powered up the unit, it must have locked on in less than 60 seconds because every time the first transmission would indicate right where it was no matter where it was.

But once it went above 60K, we had the micro trac send even invalids so it would either repeat the last position with slight number differences, like a few feet higher or lower, or slightly different lat long to it would move like a quarter mile or so. But then some reports would suddenly make it jump several hundred miles.out into lake michigan or even central michigan state.

But after burst and it got below 60K it resumed to report perfect positions exactly where it should have been according to the predictions.

And it finally landed and was retrieved. If i adjusted the estimated burst altitude from 93K to 98K it lands within like 1000 feet of the prediction! Not Bad!

So Anyway, we are in the need of a GPS that is guaranteed to work way up there well past even 125,000, so looking for recommendations.

Thanks All!

Joe WB9SBD
Near Space Sciences KB9KHO

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 2:01 AM, James Coxon wrote:
>
>
> Hi Joe,
>
> It depends really,

> In my experience SIRF III module will go past the 60,000ft limit
> however then stop working at ~78k ft, they sometimes start working on
> the way down though have also required a reset before regaining lock.
>
> Ublox modules do work above 60k ft and if set to Airborne mode are
> rated to work up to 50km (164k ft) - finally there are some ublox
> modules that are relatively cheap and easy to work with - check out
> the Falcom FSA03 and the breakout board from Esawdust.
>
> The other GPS of choice is the stalwart Lassen IQ which goes past 60k
> and has always worked however high it has gone.
>
> The Venus chipset is another choice - the initial batch apparently
> didn't work above 60k but the manufactures then corrected this and
> claim that they do work - not sure if anyone has tested this.
> Unfortunately what is said in the specs doesn't often correspond to
> the modules regarding COCOM so needs to be tested.
>
> James
>
>
>
> On 9 May 2010 06:32, gandlent <gandlent@...
> <mailto:gandlent@...>> wrote:
>
>
> You are speaking of the COCOM limit. Try a Sparkfun Venus634FLPx
> or equivilent. You may exceed altitude or speed (check the specs)
> but not both on this unit and there are others you just have to look.
>
>
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Joe
> <nss@...> wrote:
> >
> > Hi All,
> >
> > Ok we all know about that 60K alt limit many GPS's have (we found
> > another today) But when that limit is lifted, is there another
> limit?
> > window? if so what altitude is it at?
> >
> > Joe WB9SBD
> > Near Space Sciences KB9KHO
> > --
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> > http://www.idle-tyme.com

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6978. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 14:46:28 UTC
From: Mark Conner
Topic: 6974 Message: 6978

Hi Joe,

I think you'll find that few have direct experience with how well GPS units function at that altitude. As far as I know, there aren't any that have known limitations at 125,000 ft that aren't already present at lower altitudes above 60,000 ft. The only possibility I can think of is software limitations that might prevent calculation or reporting of altitudes above 32,767 meters (that's the maximum value of a 16-bit signed integer).

73 de Mark N9XTN

6979. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 14:55:32 UTC
From: Joe
Topic: 6974 Message: 6979
Attachments: 1 described; binary payloads are missing from this source WARC

Ok, now I'm confused where does this 16 bit thing come into play and why?

Reason saying is we have had the Garmen hocky puck exceed that altitude
32,767 meters (107503 feet) several times, well in to the teens Like
112,000 and 118,000 feet. This is frustrating he he he,,

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 9:46 AM, Mark Conner wrote:
>
>
> Hi Joe,
>
> I think you'll find that few have direct experience with how well GPS
> units function at that altitude. As far as I know, there aren't any
> that have known limitations at 125,000 ft that aren't already present
> at lower altitudes above 60,000 ft. The only possibility I can think
> of is software limitations that might prevent calculation or reporting
> of altitudes above 32,767 meters (that's the maximum value of a 16-bit
> signed integer).
>
> 73 de Mark N9XTN
>
>
>
>
>

6980. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 15:11:54 UTC
From: Mark Conner
Topic: 6974 Message: 6980
Attachments: 1 described; binary payloads are missing from this source WARC

It may not come into play at all on a particular model, but if the altitude is stored or converted to a 16-bit integer at some point, it'll only work up to 32,767 meters. You'd have to know the GPS's internal microcode to determine that (not likely to see).

So even if a manufacturer says it'll work above 60,000 ft, it may not work at *all* altitudes above 60kft.

Data on real-world GPS experience above 120 kft is sparse to say the least. No one goes there..... :)

- Mark

On Sun, May 9, 2010 at 09:55, Joe <nss@...> wrote:

> Ok, now I'm confused where does this 16 bit thing come into play and
> why?
>
> Reason saying is we have had the Garmen hocky puck exceed that altitude
> 32,767 meters (107503 feet) several times, well in to the teens Like
> 112,000 and 118,000 feet. This is frustrating he he he,,
>
> Joe
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>
>
>
> Hi Joe,
>
> I think you'll find that few have direct experience with how well GPS units
> function at that altitude. As far as I know, there aren't any that have
> known limitations at 125,000 ft that aren't already present at lower
> altitudes above 60,000 ft. The only possibility I can think of is software
> limitations that might prevent calculation or reporting of altitudes above
> 32,767 meters (that's the maximum value of a 16-bit signed integer).
>
> 73 de Mark N9XTN
>

>
>
>
>
>
>

6981. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 15:14:57 UTC
From: Bruce Coates
Topic: 6974 Message: 6981
Attachments: 1 described; binary payloads are missing from this source WARC

SigHi Joe

The fellow Garmin who did the presentation for us at GPSL 2009 mentioned that their code has an arbitrary limit built in based on the routines they use to calculate their positions. In consumer grade units, to make calculations faster to perform they use approximations based on a GPS being used near the ground so they become inaccurate at very high altitudes. If I recall correctly their formulas start to become inaccurate when you're 2 or 3 thousand feet up so their consumer code is designed to stop working before that happens. I suspect other manufacturers do similar things.

73, Bruce
VE5BNC

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Cc: Mark Conner
Sent: Sunday, May 09, 2010 8:55 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Ok, now I'm confused where does this 16 bit thing come into play and why?

Reason saying is we have had the Garmen hocky puck exceed that altitude 32,767 meters (107503 feet) several times, well in to the teens Like 112,000 and 118,000 feet. This is frustrating he he he,,

Joe

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Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 9:46 AM, Mark Conner wrote:
Hi Joe,

I think you'll find that few have direct experience with how well GPS units function at that altitude. As far as I know, there aren't any that have known limitations at 125,000 ft that aren't already present at lower altitudes above 60,000 ft. The only possibility I can think of is software limitations that might prevent calculation or reporting of altitudes above 32,767 meters (that's the maximum value of a 16-bit signed integer).

73 de Mark N9XTN

6982. Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 15:16:57 UTC
From: Joe
Topic: 6982 Message: 6982
Attachments: 2 described; binary payloads are missing from this source WARC

I love all these gadgets we get to play with now that we diddn't have 20+ years ago. While this program of Bills and Hank's revisions is almost as old as ballooning itself,, I have never used it till i tried it last night.

seems pretty cool except for one thing,, that I wonder about

What are the Min diameter and max diameter windows.

Ok onto another when i plug in the spec's for yesterdays flight, it jives right on with everything that happened.

isn't it cool when things match the real world?

BUT

when i plug in what we would have flown if the winds were Ok would have been a 2000 gram balloon using H2 for gas, a 1.25 pound payload, and a extra pound of free lift, (2.25 pounds lift on the balloon neck with no payload)

Punch in those numbers and the program wont show me reasonable lift amounts,

what do i need to do to be able to see say 1 pound of free lift?

I tried re sizing the window like any regular "Windows" you do and a grab and drag doesn't work.

Joe

--

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http://www.idle-tyme.com

6983. Re: [GPSL] Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 15:39:41 UTC
From: HarryM
Topic: 6982 Message: 6983

SigUncheck "default values" then reduce the "Min Dia" to something smaller then click "calc". Play with that and you will get what you're looking for.

Harry
O.R.B.

> what do i need to do to be able to see say 1 pound of free lift?

6984. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:03:22 UTC
From: Rodney Sparks
Topic: 6974 Message: 6984
Attachments: 1 described; binary payloads are missing from this source WARC

Have you guys seen this module that goes to 135k feet? Any experiences with it?

http://www.inventeksys.com/html/ism300f2-c5-v0004.html

<http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney

On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Joe
>
> The fellow Garmin who did the presentation for us at GPSL 2009 mentioned
> that their code has an arbitrary limit built in based on the routines they
> use to calculate their positions. In consumer grade units, to make
> calculations faster to perform they use approximations based on a GPS being
> used near the ground so they become inaccurate at very high altitudes. If I
> recall correctly their formulas start to become inaccurate when you're 2 or
> 3 thousand feet up so their consumer code is designed to stop working before
> that happens. I suspect other manufacturers do similar things.
>
> 73, Bruce
> VE5BNC
>
> ----- Original Message -----
>
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Mark Conner <mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into play and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that altitude
> 32,767 meters (107503 feet) several times, well in to the teens Like
> 112,000 and 118,000 feet. This is frustrating he he he,,
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> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com

>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>
> Hi Joe,
>
> I think you'll find that few have direct experience with how well GPS units
> function at that altitude. As far as I know, there aren't any that have
> known limitations at 125,000 ft that aren't already present at lower
> altitudes above 60,000 ft. The only possibility I can think of is software
> limitations that might prevent calculation or reporting of altitudes above
> 32,767 meters (that's the maximum value of a 16-bit signed integer).
>
> 73 de Mark N9XTN
>
>
>
>
>
>

6985. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:10:11 UTC
From: Joe
Topic: 6974 Message: 6985
Attachments: 2 described; binary payloads are missing from this source WARC

Why would it become in accurate at all. Does this mean the ones that EOSS uses before they even get off the ground are no good sitting on the bench? i mean they are higher than that right/

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 10:14 AM, Bruce Coates wrote:
>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based on the
> routines they use to calculate their positions. In consumer grade
> units, to make calculations faster to perform they use approximations
> based on a GPS being used near the ground so they become inaccurate at
> very high altitudes. If I recall correctly their formulas start to
> become inaccurate when you're 2 or 3 thousand feet up so their
> consumer code is designed to stop working before that happens. I
> suspect other manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into play
> and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that
> altitude 32,767 meters (107503 feet) several times, well in to
> the teens Like 112,000 and 118,000 feet. This is frustrating he
> he he,,
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> Joe
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> The Original Rolling Ball Clock

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> http://www.idle-tyme.com
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> On 5/9/2010 9:46 AM, Mark Conner wrote:
>> Hi Joe,
>>
>> I think you'll find that few have direct experience with how well
>> GPS units function at that altitude. As far as I know, there
>> aren't any that have known limitations at 125,000 ft that aren't
>> already present at lower altitudes above 60,000 ft. The only
>> possibility I can think of is software limitations that might
>> prevent calculation or reporting of altitudes above 32,767 meters
>> (that's the maximum value of a 16-bit signed integer).
>>
>> 73 de Mark N9XTN
>>
>>
>
>
>

6986. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:13:18 UTC
From: Bruce Coates
Topic: 6974 Message: 6986
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Rodney

I've flown this to 105 and 109 thousand feet and it worked great on ascent. On the 105.000 foot flight it lost lock at burst and never regained it. I was told that there is a configuration item to prevent this which is stored in the batter backup up ram. Bill Brown also flies them regularly.

73, Bruce

----- Original Message -----
From: Rodney Sparks
To: GPSL@yahoogroups.com
Sent: Sunday, May 09, 2010 10:03 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Have you guys seen this module that goes to 135k feet? Any experiences with it?

http://www.inventeksys.com/html/ism300f2-c5-v0004.html

-Rodney

On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...> wrote:

Hi Joe

The fellow Garmin who did the presentation for us at GPSL 2009 mentioned that their code has an arbitrary limit built in based on the routines they use to calculate their positions. In consumer grade units, to make calculations faster to perform they use approximations based on a GPS being used near the ground so they become inaccurate at very high altitudes. If I recall correctly their formulas start to become inaccurate when you're 2 or 3 thousand feet up so their consumer code is designed to stop working before that happens. I suspect other manufacturers do similar things.

73, Bruce
VE5BNC

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Cc: Mark Conner
Sent: Sunday, May 09, 2010 8:55 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Ok, now I'm confused where does this 16 bit thing come into play and why?

Reason saying is we have had the Garmen hocky puck exceed that altitude 32,767 meters (107503 feet) several times, well in to the teens Like 112,000 and 118,000 feet. This is

frustrating he he he,,

Joe

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Hi Joe,

I think you'll find that few have direct experience with how well GPS units function at that altitude. As far as I know, there aren't any that have known limitations at 125,000 ft that aren't already present at lower altitudes above 60,000 ft. The only possibility I can think of is software limitations that might prevent calculation or reporting of altitudes above 32,767 meters (that's the maximum value of a 16-bit signed integer).

73 de Mark N9XTN

6987. Re: [GPSL] Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:20:37 UTC
From: Joe
Topic: 6982 Message: 6987
Attachments: 1 described; binary payloads are missing from this source WARC

That did it,

Thanks,, and the numbers are close to what i calculated my way too.

Joe WB9SBD
Near Space Sciences KB9KHO

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Idle Tyme
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http://www.idle-tyme.com

On 5/9/2010 10:39 AM, HarryM wrote:
>
>
> Uncheck "default values" then reduce the "Min Dia" to something
> smaller then click "calc". Play with that and you will get what you're
> looking for.
> Harry
> O.R.B.
> > what do i need to do to be able to see say 1 pound of free lift?
>
>
>

6988. Re: [GPSL] Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:28:53 UTC
From: HarryM
Topic: 6982 Message: 6988

SigJoe, You sent me an email a while back about something. Sorry about not replying. Send me an email (find it on QRZ) and I'll send you my number or send me yours and we'll talk on the phone.

Harry

That did it,

Thanks,, and the numbers are close to what i calculated my way too.

6989. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 16:32:34 UTC
From: Bruce Coates
Topic: 6974 Message: 6989
Attachments: 2 described; binary payloads are missing from this source WARC

SigHi Joe

The formulas and therefore the computing power required to determine an exact fix everywhere between the ground and earth orbit are much more complex so would require much more computing power than consumer GPSs have. This is why consumer GPSs cost less than a good steak dinner and runs all day a battery while industrial/military grade units cost as much as a car (or house) and need a batteries a lot bigger than a 9v. Everything's a compromise. Your car's speedometer was never designed to work at 700 mph but it works just great at normal car speeds where it was designed to work. Your rolling ball clock works great for regular time keeping but one that resolved down to the microsecond would be a completely different machine. The GPS units that EOSS and other balloonist use were designed to work from lower than ground level (if you could find a deep hole where you could receive satellites) to tens or hundreds of thousands of feet up so they're as accurate as any of us need within those ranges.

Bruce
----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Sent: Sunday, May 09, 2010 10:10 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Why would it become in accurate at all. Does this mean the ones that EOSS uses before they even get off the ground are no good sitting on the bench? i mean they are higher than that right/

Joe

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73, Bruce
VE5BNC

----- Original Message -----
From: Joe
To: GPSL@yahoogroups.com
Cc: Mark Conner
Sent: Sunday, May 09, 2010 8:55 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Ok, now I'm confused where does this 16 bit thing come into play and why?

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Hi Joe,

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73 de Mark N9XTN

6990. Re: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 20:12:08 UTC
From: L. Paul Verhage
Topic: 6972 Message: 6990
Attachments: 1 described; binary payloads are missing from this source WARC

I use the Tiny Trak packets and dump the whole thing into a spreadsheet. If
you go to my webpage, nearsys.com, check under past flight records and
you'll find several flight reports with APRS spreadsheets you can look at.

Also, one of my past articles for the Citizen Scientist gives an
explanation.

Paul

On Sat, May 8, 2010 at 9:30 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I have a script somewhere that will take the GPRMC's and GPGGA's and split
> them out into a CSV file. Then I've used some spreadsheet formulas in
> OpenOffice.org to calc the ascent/descent rates, and even to plot them.
>
> I haven't used it in a few years, but if you want, I can try to dig it out.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Sat, May 8, 2010 at 9:12 PM, Joe <nss@...> wrote:
>
>> Has anyone come up with a way to extract the rate of climb from the raw
>> APRS data records from a flight. from either aprs.fi or via findu?
>>
>> Joe
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>
>
>
>

--
Onwards and Upwards,
Paul

6991. RE: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 20:56:45 UTC
From: Rick von Glahn
Topic: 6972 Message: 6991
Attachments: 1 described; binary payloads are missing from this source WARC

Balloon Track for Windows can do this.

http://www.eoss.org/wbaltrak/

It is actually a side benefit to the original purpose of this function. When Balloon Track is used to monitor a flight in progress it creates a spread sheet with lots of info for easy post-flight analysis. However, there is a "Simulation" option in Balloon Track that allows you to read an APRS capture file into the program and process it as if it is a live flight. Thus, in the process, BT creates the spreadsheet which contains many derived parameters, Ascent rate among them. Here is the skinny since it isn't too well documented on the web page.

The function is a bit buried but .

On the setup screens

1.) On the "Flight Info" tab, enter the callsign you want to get the data for. (required)

2.) Disable Live Data Capture (not really necessary since the program will only observe the callsign indicated on step one)

a. On the Packet Parameters tab click on "Setup Comm port or TCP/IP"

b. In the Commsetup screen select "Comm Port" and then in the Comm Port Settings box set Comm Port to "No Comm"

3.) Close the Setup screens

4.) On the main menu select "Packet Data/Packet Terminal"

5.) When the Packet screen opens Select "File/Open Simulation" and specify your log file.

When you click "Open" in the file selection box, that file is loaded into Balloon Track and the program immediately starts processing the file line by line. There is a simulation "speed control" you can use to speed up this function a bit. I originally wrote this capability into the program so I could watch it work on data in simulation mode and watch the code execute. This made designing some of the functions much easier to troubleshoot. Once I was finished with the coding process I removed the menu entry for it. But after the very first flight with the simulation mode removed, I quickly realized the utility it represented and re-activated its menu selection item.

Balloon Track will read many different formats of data. If the data includes Altitude information and GPS timestamps it will calculate Ascent and Descent rates. It places this along with lots of other captured and calculated data into a spreadsheet file (CSV) that is assigned the name "Flight_Data_YYYY_MM_DD.csv" where Y, M and D represent the date when you ran the simulation.

I run the KPC3 Log from our airborne APRS systems through this routine after each EOSS flight and build the data files from liftoff to landing and then use that data to generate the recap information. You can see the CSV spread sheet files generated by this process in almost all recap pages of recent vintage, for instance:

http://www.eoss.org/ansrecap/ar_160/recap150.htm

At the bottom of our last recap in the data section is an entry for:

eoss-150_ae0ss-11_Flight_Data.csv - airborne only KPC3 Log ripped to spreadsheet format

Download this file which was generated in simulation mode by BT and you can see the layout of this spreadsheet. One note. There is an entry for "System Time" (2nd column). In real-time operations this is handy if the APRS system is not pumping out timestamps as it can be used for intra packet calculations of distance and speed. However, when processing the file in simulation mode, it means nothing, you need that "GPS Time" field to do any post flight analysis.

Here are the fields in the spread sheet

"Callsign"

"System Time"

"GPS Time"

"Altitude(ft)"

"Ascent Rate(fpm)" Calculated between sequential packets

"Grid X(mi)" EOSS uses a Grid for recovery, you can disregard this

"Grid Y(mi)" EOSS uses a Grid for recovery, you can disregard this

"Latitude"

"Longitude"

"Track" Calculated between sequential packets

"Speed(mph)" Calculated between sequential packets

"GPS Track" Read from APRS file directly NOT CALCULATED

"GPS Speed(mph)" Read from APRS file directly NOT CALCULATED

"Bear From Launch" Calculated for each packet packet

"Dist From Launch(mi)" Calculated for each packet packet

"Dist. to LOS(mi)" Calculated for each packet packet

Units of measurement change to meters and kilometers if the program is set to run in that mode.

Hope that is useful.

As long as I'm not inundated, I'd be glad to run aprs logs through the program for folks who do not have it installed.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Saturday, May 08, 2010 8:13 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] RAW Data

Has anyone come up with a way to extract the rate of climb from the raw APRS data records from a flight. from either aprs.fi or via findu?

Joe

--
cid:image001.jpg@01CAEF83.429621D0
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

6992. Re: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 21:01:04 UTC
From: Joe
Topic: 6972 Message: 6992
Attachments: 2 described; binary payloads are missing from this source WARC

That spreadsheet was perfect dude!

Now how did you take the raw data from like what was recorded on finu or aprs.fi and get it in there/

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 3:12 PM, L. Paul Verhage wrote:
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>
> I use the Tiny Trak packets and dump the whole thing into a
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> several flight reports with APRS spreadsheets you can look at.
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> I have a script somewhere that will take the GPRMC's and GPGGA's
> and split them out into a CSV file. Then I've used some
> spreadsheet formulas in OpenOffice.org to calc the ascent/descent
> rates, and even to plot them.
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> I haven't used it in a few years, but if you want, I can try to
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>
>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6993. RE: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 22:32:01 UTC
From: Rick von Glahn
Topic: 6972 Message: 6993
Attachments: 1 described; binary payloads are missing from this source WARC

I use findu for the source if I don't have an on board telemetry log file. I built a Query page for findu at:

http://findu.eoss.org

Go there and read about the various query forms. If a flight has occurred fairly recently you can get the actual data that was sent into APRS-IS. Query for the data, copy the data to a clipboard and stick it into a plain text file and save it and this data should be able to be parsed by Balloon Track. BT will handle most APRS formats including Mic-E and the NMEA strings as well. If the data itself does NOT have timestamps embedded, you can check a checkbox on the query form to include a timestamp for each string and BT will use that timestamp as the GPS Time stamp. However it is going to be a little off in time due to network transmission, dup checking etc. It is usually good to a few seconds and so is pretty useful.

If the flight you are looking for is older than a week or so you need to use the third query down for "older tabular position data for a specific station". This data goes back around 180 days. So if you are within 6 months of a flight and need the data it's there and available. This data doesn't parse inside of BT, but it is already in a form that is usually easy to deal with in a spreadsheet so you can derive most info with ease. If you are attempting to generate course and speed from packets then you'll have to calculated that from the lat/long/time elements. A handy reference for formulae that will deal with this type of stuff is at:

http://williams.best.vwh.net/avform.htm

I use his algorithms throughout BT. If you plan to do this a lot then you might want to use Excel and the Visual Basic for Applications capability to program a spreadsheet to do this for you. Enter in two pairs of lat/longs and you can get the spreadsheet to pump out range and bearing from one to the other, thus with the addition of the timestamp you can get course and speed.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Sunday, May 09, 2010 3:01 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] RAW Data

That spreadsheet was perfect dude!

Now how did you take the raw data from like what was recorded on finu or aprs.fi and get it in there/

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 5/9/2010 3:12 PM, L. Paul Verhage wrote:

I use the Tiny Trak packets and dump the whole thing into a spreadsheet. If
you go to my webpage, nearsys.com, check under past flight records and
you'll find several flight reports with APRS spreadsheets you can look at.

Also, one of my past articles for the Citizen Scientist gives an
explanation.

Paul

On Sat, May 8, 2010 at 9:30 PM, Zack Clobes <zclobes@...> wrote:

I have a script somewhere that will take the GPRMC's and GPGGA's and split
them out into a CSV file. Then I've used some spreadsheet formulas in
OpenOffice.org to calc the ascent/descent rates, and even to plot them.

I haven't used it in a few years, but if you want, I can try to dig it out.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org <http://www.projecttraveler.org/>

On Sat, May 8, 2010 at 9:12 PM, Joe <nss@...> wrote:

Has anyone come up with a way to extract the rate of climb from the raw APRS
data records from a flight. from either aprs.fi <http://aprs.fi/> or via
findu?

Joe

--

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Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com/> http://www.idle-tyme.com

--
Onwards and Upwards,
Paul

6994. Re: [GPSL] RAW Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 23:40:18 UTC
From: Joe
Topic: 6972 Message: 6994
Attachments: 2 described; binary payloads are missing from this source WARC

Absolutely Please dig it out.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 3:12 PM, L. Paul Verhage wrote:
>
>
> I use the Tiny Trak packets and dump the whole thing into a
> spreadsheet. If you go to my webpage, nearsys.com
> <http://nearsys.com>, check under past flight records and you'll find
> several flight reports with APRS spreadsheets you can look at.
> Also, one of my past articles for the Citizen Scientist gives an
> explanation.
> Paul
>
> On Sat, May 8, 2010 at 9:30 PM, Zack Clobes <zclobes@...
> <mailto:zclobes@...>> wrote:
>
>
>
> I have a script somewhere that will take the GPRMC's and GPGGA's
> and split them out into a CSV file. Then I've used some
> spreadsheet formulas in OpenOffice.org to calc the ascent/descent
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>
> I haven't used it in a few years, but if you want, I can try to
> dig it out.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org/>
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> Has anyone come up with a way to extract the rate of climb
> from the raw APRS data records from a flight. from either

> aprs.fi <http://aprs.fi/> or via findu?
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> Joe
> --
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>
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>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

6995. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-09 23:57:16 UTC
From: Mike Manes
Topic: 6974 Message: 6995

Check out the GPS engine evaluations on Ralph Wallio's web site:

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

EOSS has had great luck with the old Rockwell Jupiters with the newer firmware. They've reported up past 117K' for us, and are rated to 30km (130K').

As new rcvrs get validated, they oughta make it onto this list - good or bad.

73 de Mike W5VSI

On 5/9/2010 08:38, Joe wrote:
> Hi James,
> And everyone on the list.
>
> Very good information below people! Thanks and keep it coming. We will
> need one that is absolute sure to work way up there, I mean WAY UP
> THERE! Like way above 125,000.
>
> Yeah we tested an un tested one yesterday. And while below 60K it worked
> perfectly. FAST lock on. the beacon was set to transmit every 60
> seconds. and every time I powered up the unit, it must have locked on
> in less than 60 seconds because every time the first transmission would
> indicate right where it was no matter where it was.
>
> But once it went above 60K, we had the micro trac send even invalids so
> it would either repeat the last position with slight number
> differences, like a few feet higher or lower, or slightly different
> lat long to it would move like a quarter mile or so. But then some
> reports would suddenly make it jump several hundred miles.out into lake
> michigan or even central michigan state.
>
> But after burst and it got below 60K it resumed to report perfect
> positions exactly where it should have been according to the predictions.
>
> And it finally landed and was retrieved. If i adjusted the estimated
> burst altitude from 93K to 98K it lands within like 1000 feet of the
> prediction! Not Bad!
>
> So Anyway, we are in the need of a GPS that is guaranteed to work way
> up there well past even 125,000, so looking for recommendations.
>
> Thanks All!
>
> Joe WB9SBD

> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/9/2010 2:01 AM, James Coxon wrote:
>> Hi Joe,
>>
>> It depends really,
>> In my experience SIRF III module will go past the 60,000ft limit
>> however then stop working at ~78k ft, they sometimes start working on
>> the way down though have also required a reset before regaining lock.
>>
>> Ublox modules do work above 60k ft and if set to Airborne mode are
>> rated to work up to 50km (164k ft) - finally there are some ublox
>> modules that are relatively cheap and easy to work with - check out
>> the Falcom FSA03 and the breakout board from Esawdust.
>>
>> The other GPS of choice is the stalwart Lassen IQ which goes past 60k
>> and has always worked however high it has gone.
>>
>> The Venus chipset is another choice - the initial batch apparently
>> didn't work above 60k but the manufactures then corrected this and
>> claim that they do work - not sure if anyone has tested this.
>> Unfortunately what is said in the specs doesn't often correspond to
>> the modules regarding COCOM so needs to be tested.
>>
>> James
>>
>>
>>
>> On 9 May 2010 06:32, gandlent <gandlent@...
>> <mailto:gandlent@...>> wrote:
>>
>>
>> You are speaking of the COCOM limit. Try a Sparkfun Venus634FLPx
>> or equivilent. You may exceed altitude or speed (check the specs)
>> but not both on this unit and there are others you just have to look.
>>
>>
>>
>> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Joe
>> <nss@...> wrote:
>> >
>> > Hi All,
>> >
>> > Ok we all know about that 60K alt limit many GPS's have (we found
>> > another today) But when that limit is lifted, is there another

>> limit?
>> > window? if so what altitude is it at?
>> >
>> > Joe WB9SBD
>> > Near Space Sciences KB9KHO
>> > --
>> >
>> > The Original Rolling Ball Clock
>> > Idle Tyme
>> > Idle-Tyme.com
>> > http://www.idle-tyme.com
>> >
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6996. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 00:02:53 UTC
From: Mike Manes
Topic: 6974 Message: 6996

EOSS's Rockwell Jupiter is rated to 40,000m vice 30,000m as I fumbled
earlier (30km = 131.2K', which is pretty challenging for latex).
73 de Mike W5VSI

On 5/9/2010 08:55, Joe wrote:
> Ok, now I'm confused where does this 16 bit thing come into play and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that altitude
> 32,767 meters (107503 feet) several times, well in to the teens Like
> 112,000 and 118,000 feet. This is frustrating he he he,,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>> Hi Joe,
>>
>> I think you'll find that few have direct experience with how well GPS
>> units function at that altitude. As far as I know, there aren't any
>> that have known limitations at 125,000 ft that aren't already present
>> at lower altitudes above 60,000 ft. The only possibility I can think
>> of is software limitations that might prevent calculation or reporting
>> of altitudes above 32,767 meters (that's the maximum value of a 16-bit
>> signed integer).
>>
>> 73 de Mark N9XTN
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6997. Re: [GPSL] Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 00:07:57 UTC
From: Mike Manes
Topic: 6982 Message: 6997

Hi Joe,

The Min Diam & Max Diam windows are the balloon diameter limits for a fill.
Those are the default values, but you can change either to whatever is needed
to get the desired ascent rate or burst altitude - just click in the window
and key in your desired values.

73 de Mike W5VSI

On 5/9/2010 09:16, Joe wrote:
> I love all these gadgets we get to play with now that we diddn't have
> 20+ years ago. While this program of Bills and Hank's revisions is
> almost as old as ballooning itself,, I have never used it till i tried
> it last night.
>
> seems pretty cool except for one thing,, that I wonder about
>
> What are the Min diameter and max diameter windows.
>
> Ok onto another when i plug in the spec's for yesterdays flight, it
> jives right on with everything that happened.
>
> isn't it cool when things match the real world?
>
> BUT
>
> when i plug in what we would have flown if the winds were Ok would have
> been a 2000 gram balloon using H2 for gas, a 1.25 pound payload, and a
> extra pound of free lift, (2.25 pounds lift on the balloon neck with no
> payload)
>
> Punch in those numbers and the program wont show me reasonable lift amounts,
>
> what do i need to do to be able to see say 1 pound of free lift?
>
> I tried re sizing the window like any regular "Windows" you do and a
> grab and drag doesn't work.
>
> Joe
>
> --
>
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> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6998. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 00:19:56 UTC
From: Mike Manes
Topic: 6974 Message: 6998

Hi Rodney,

Getting a balloon up to 135K' will be a lot tougher task than getting a
GPS that will report that high. The ambient pressure up there is about
2 mbar, so the balloon volume will be about 5x greater than that at 100K'.

73 de Mike W5VSI

On 5/9/2010 10:03, Rodney Sparks wrote:
>
>
> Have you guys seen this module that goes to 135k feet? Any experiences
> with it?
>
> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
>
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney
>
> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...
> <mailto:bruce.coates@...>> wrote:
>
>
>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based on
> the routines they use to calculate their positions. In consumer
> grade units, to make calculations faster to perform they use
> approximations based on a GPS being used near the ground so they
> become inaccurate at very high altitudes. If I recall correctly
> their formulas start to become inaccurate when you're 2 or 3
> thousand feet up so their consumer code is designed to stop working
> before that happens. I suspect other manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into
> play and why?
>

> Reason saying is we have had the Garmen hocky puck exceed that
> altitude 32,767 meters (107503 feet) several times, well in to
> the teens Like 112,000 and 118,000 feet. This is frustrating
> he he he,,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>> Hi Joe,
>>
>> I think you'll find that few have direct experience with how
>> well GPS units function at that altitude. As far as I know,
>> there aren't any that have known limitations at 125,000 ft
>> that aren't already present at lower altitudes above 60,000
>> ft. The only possibility I can think of is software
>> limitations that might prevent calculation or reporting of
>> altitudes above 32,767 meters (that's the maximum value of a
>> 16-bit signed integer).
>>
>> 73 de Mark N9XTN
>>
>>
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

6999. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 00:22:47 UTC
From: Mike Manes
Topic: 6974 Message: 6999

If you encounter PBC, the GPS patch antenna may lose a decent view of
the sky, or lose & regain sigs from a given sat at a rapid spin rate.
That can confuse the li'l micro-brain in the GPS engine.

On 5/9/2010 10:13, Bruce Coates wrote:
>
>
> Hi Rodney
> I've flown this to 105 and 109 thousand feet and it worked great on
> ascent. On the 105.000 foot flight it lost lock at burst and never
> regained it. I was told that there is a configuration item to prevent
> this which is stored in the batter backup up ram. Bill Brown also flies
> them regularly.
> 73, Bruce
>
> ----- Original Message -----
> *From:* Rodney Sparks <mailto:rodney@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Sunday, May 09, 2010 10:03 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Have you guys seen this module that goes to 135k feet? Any
> experiences with it?
>
>
> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>
>
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney
>
> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates
> <bruce.coates@... <mailto:bruce.coates@...>> wrote:
>
>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based
> on the routines they use to calculate their positions. In
> consumer grade units, to make calculations faster to perform
> they use approximations based on a GPS being used near the
> ground so they become inaccurate at very high altitudes. If I
> recall correctly their formulas start to become inaccurate when
> you're 2 or 3 thousand feet up so their consumer code is
> designed to stop working before that happens. I suspect other

> manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into
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> Reason saying is we have had the Garmen hocky puck exceed
> that altitude 32,767 meters (107503 feet) several times,
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> Joe
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>> 125,000 ft that aren't already present at lower altitudes
>> above 60,000 ft. The only possibility I can think of is
>> software limitations that might prevent calculation or
>> reporting of altitudes above 32,767 meters (that's the
>> maximum value of a 16-bit signed integer).
>>
>> 73 de Mark N9XTN
>>
>>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

7000. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 00:24:05 UTC
From: Mike Manes
Topic: 6974 Message: 7000

EOSS uses Rockwell Jupiters for all its APRS payloads.

On 5/9/2010 10:10, Joe wrote:
> Why would it become in accurate at all. Does this mean the ones that
> EOSS uses before they even get off the ground are no good sitting on the
> bench? i mean they are higher than that right/
>
> Joe
>
> The Original Rolling Ball Clock
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> http://www.idle-tyme.com
>
> On 5/9/2010 10:14 AM, Bruce Coates wrote:
>> Hi Joe
>> The fellow Garmin who did the presentation for us at GPSL 2009
>> mentioned that their code has an arbitrary limit built in based on the
>> routines they use to calculate their positions. In consumer grade
>> units, to make calculations faster to perform they use approximations
>> based on a GPS being used near the ground so they become inaccurate at
>> very high altitudes. If I recall correctly their formulas start to
>> become inaccurate when you're 2 or 3 thousand feet up so their
>> consumer code is designed to stop working before that happens. I
>> suspect other manufacturers do similar things.
>> 73, Bruce
>> VE5BNC
>> ----- Original Message -----
>>
>> *From:* Joe <mailto:nss@...>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Cc:* Mark Conner <mailto:mconner1@...>
>> *Sent:* Sunday, May 09, 2010 8:55 AM
>> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>>
>> Ok, now I'm confused where does this 16 bit thing come into play
>> and why?
>>
>> Reason saying is we have had the Garmen hocky puck exceed that
>> altitude 32,767 meters (107503 feet) several times, well in to
>> the teens Like 112,000 and 118,000 feet. This is frustrating he he
>> he,,
>>
>> Joe
>>

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>> On 5/9/2010 9:46 AM, Mark Conner wrote:
>>> Hi Joe,
>>>
>>> I think you'll find that few have direct experience with how well
>>> GPS units function at that altitude. As far as I know, there
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>>> already present at lower altitudes above 60,000 ft. The only
>>> possibility I can think of is software limitations that might
>>> prevent calculation or reporting of altitudes above 32,767 meters
>>> (that's the maximum value of a 16-bit signed integer).
>>>
>>> 73 de Mark N9XTN
>>>
>>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7001. Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 02:00:22 UTC
From: Joe
Topic: 7001 Message: 7001
Attachments: 1 described; binary payloads are missing from this source WARC

Steve made available a short 11 minute video of our last launch of NSS-48.
Enjoy, and thanks Steve, nice job, and good editing if you know what I
mean he he he..

The wind i thought was a lot faster than the editing mentions.
Joe

mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
--

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Idle-Tyme.com
http://www.idle-tyme.com

7002. Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 03:20:27 UTC
From: Joe
Topic: 6952 Message: 7002

It seems like we all will be seriously starting to make a national organization for ARHAB activities. Similar to the Tripoli and NAR groups that the high power rocketry people have. This I think is a good idea especially with the sudden influx of all the news media lately ballooning has had.

I think a nicely set up on the groups once it is made web page should be a nice basic how to and what not to do page.

I still see the EOSS gang still have the basic page up at
http://www.eoss.org/pubs/faqloon.htm
Man does that bring back memories! it's clearly out dated, but also a lot is still good strong advise.

And their page that tries to explain the legal talk of FAR Part 101 and how it effects our flights at,
http://eoss.org/pubs/far_annotated.htm
Is a major good start.

I propose while we are talking about the formation of the national organization or group, how about all you out there that have been doing this for a long time join me in really making part 101 soo clear and understandable that anyone even with absolutely no knowledge of anything aviation regulation wise is it in perfect clear easy to understand language. with examples of payloads that would meet a typical rule and a payload the does not meet the rules. make it incredibly simple.

who is with me on doing this task as a group effort?

If so I made a yahoo group for us to do this in as a group. it's at.

http://groups.yahoo.com/group/FarPart101/

Anyone?

Joe WB9SBD
Near Space Sciences KB9KHO

7003. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 03:37:25 UTC
From: Mike Manes
Topic: 7001 Message: 7003

Hi Joe,

Nice thing about exempt flights is you can ignore cloud cover and visibility constraints.

BTW, didn't see any special precautions using H2 inside that garage - even ran the garage door opener and did some flash pix!

73 de Mike W5VSI

On 5/9/2010 20:00, Joe wrote:
>
> Steve made available a short 11 minute video of our last launch of NSS-48.
> Enjoy, and thanks Steve, nice job, and good editing if you know what I
> mean he he he..
>
> The wind i thought was a lot faster than the editing mentions.
> Joe
>
> mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7004. Re: [GPSL] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 04:00:18 UTC
From: Keith Kaiser
Topic: 6952 Message: 7004

I would love someone to write additional content for the web site we do have.

http://www.arhab.org/
http://www.arhab.org/ARHABlaunchannouncements.html
http://www.arhab.org/ARHABlinks.html

On May 9, 2010, at 10:20 PM, Joe wrote:

> It seems like we all will be seriously starting to make a national
> organization for ARHAB activities. Similar to the Tripoli and NAR groups
> that the high power rocketry people have. This I think is a good idea
> especially with the sudden influx of all the news media lately
> ballooning has had.
>
> I think a nicely set up on the groups once it is made web page should be
> a nice basic how to and what not to do page.
>
> I still see the EOSS gang still have the basic page up at
> http://www.eoss.org/pubs/faqloon.htm
> Man does that bring back memories! it's clearly out dated, but also a
> lot is still good strong advise.
>
> And their page that tries to explain the legal talk of FAR Part 101 and
> how it effects our flights at,
> http://eoss.org/pubs/far_annotated.htm
> Is a major good start.
>
> I propose while we are talking about the formation of the national
> organization or group, how about all you out there that have been doing
> this for a long time join me in really making part 101 soo clear and
> understandable that anyone even with absolutely no knowledge of anything
> aviation regulation wise is it in perfect clear easy to understand
> language. with examples of payloads that would meet a typical rule and
> a payload the does not meet the rules. make it incredibly simple.
>
> who is with me on doing this task as a group effort?
>
> If so I made a yahoo group for us to do this in as a group. it's at.
>
> http://groups.yahoo.com/group/FarPart101/
>
> Anyone?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>

7005. Re: [GPSL] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 04:08:10 UTC
From: Joe
Topic: 6952 Message: 7005
Attachments: 1 described; binary payloads are missing from this source WARC

Thats what i was thinking,

Use the yahoo group as a think tank of all those interested to hash out
the thouhts and meanings for final publications on the official sites.
because the arhab.org would be a perfect place to store all this great
info for new comers to go and get the real info. yaknow?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 11:00 PM, Keith Kaiser wrote:
>
>
> I would love someone to write additional content for the web site we
> do have.
>
> http://www.arhab.org/
> http://www.arhab.org/ARHABlaunchannouncements.html
> http://www.arhab.org/ARHABlinks.html
>
>
> On May 9, 2010, at 10:20 PM, Joe wrote:
>
>> It seems like we all will be seriously starting to make a national
>> organization for ARHAB activities. Similar to the Tripoli and NAR groups
>> that the high power rocketry people have. This I think is a good idea
>> especially with the sudden influx of all the news media lately
>> ballooning has had.
>>
>> I think a nicely set up on the groups once it is made web page should be
>> a nice basic how to and what not to do page.
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>> I still see the EOSS gang still have the basic page up at
>> http://www.eoss.org/pubs/faqloon.htm
>> <http://www.eoss.org/pubs/faqloon.htm>
>> Man does that bring back memories! it's clearly out dated, but also a
>> lot is still good strong advise.
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>> And their page that tries to explain the legal talk of FAR Part 101 and
>> how it effects our flights at,
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>> I propose while we are talking about the formation of the national
>> organization or group, how about all you out there that have been doing
>> this for a long time join me in really making part 101 soo clear and
>> understandable that anyone even with absolutely no knowledge of anything
>> aviation regulation wise is it in perfect clear easy to understand
>> language. with examples of payloads that would meet a typical rule and
>> a payload the does not meet the rules. make it incredibly simple.
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>> who is with me on doing this task as a group effort?
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>> If so I made a yahoo group for us to do this in as a group. it's at.
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>> http://groups.yahoo.com/group/FarPart101/
>> <http://groups.yahoo.com/group/FarPart101/>
>>
>> Anyone?
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>
>
>
>

7006. Re: [GPSL] gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 05:28:01 UTC
From: wb8elk@aol.com
Topic: 6974 Message: 7006
Attachments: 1 described; binary payloads are missing from this source WARC

Some chipsets that don't have the altitude limit may have a 78,000 limit (I believe that's what I was told once).....the Inventek units with the balloon mod have a 137,000 feet limit....depends on how they do the Kalman filtering.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@mwt.net>
To: GPSL@yahoogroups.com
Sent: Sat, May 8, 2010 10:58 pm
Subject: [GPSL] gps ALT LIMITS

Hi All,

Ok we all know about that 60K alt limit many GPS's have (we found another today) But when that limit is lifted, is there another limit? window? if so what altitude is it at?

Joe WB9SBD
Near Space Sciences KB9KHO

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

7007. Re: [GPSL] Lift Win

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 05:34:00 UTC
From: wb8elk@aol.com
Topic: 6982 Message: 7007
Attachments: 2 described; binary payloads are missing from this source WARC

Joe....just enter in smaller balloon fill diameters in the boxes to see the lower ascent rates.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sun, May 9, 2010 10:16 am
Subject: [GPSL] Lift Win

I love all these gadgets we get to play with now that we diddn't have 20+ years ago. While this program of Bills and Hank's revisions is almost as old as ballooning itself,, I have never used it till i tried it last night.

seems pretty cool except for one thing,, that I wonder about

What are the Min diameter and max diameter windows.

Ok onto another when i plug in the spec's for yesterdays flight, it jives right on with everything that happened.

isn't it cool when things match the real world?

BUT

when i plug in what we would have flown if the winds were Ok would have been a 2000 gram balloon using H2 for gas, a 1.25 pound payload, and a extra pound of free lift, (2.25 pounds lift on the balloon neck with no payload)

Punch in those numbers and the program wont show me reasonable lift amounts,

what do i need to do to be able to see say 1 pound of free lift?

I tried re sizing the window like any regular "Windows" you do and a grab and drag doesn't work.

Joe

--

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Idle-Tyme.com
http://www.idle-tyme.com

7008. Re: [GPSL] Re: gps ALT LIMITS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 05:38:18 UTC
From: wb8elk@aol.com
Topic: 6974 Message: 7008

Hi Rodney,

I've flown the Inventek balloon mod module about 18 times in the past 2 years....works great when you use a Sarantel Helical antenna with it....I should have the boards available with the chip and antenna near the end of the month. I tested it out about 3 weeks ago on a UAH flight with a Microtrak300 and it powered right up and started to report it's location within a minute. It was a lot faster position lock than using a Garmin 18.

- Bill WB8ELK

-----Original Message-----
From: Rodney Sparks <rodney@...>
To: GPSL@yahoogroups.com
Sent: Sun, May 9, 2010 11:03 am
Subject: Re: [GPSL] Re: gps ALT LIMITS

Have you guys seen this module that goes to 135k feet? Any experiences with it?

http://www.inventeksys.com/html/ism300f2-c5-v0004.html

-Rodney

On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...> wrote:

Hi Joe

The fellow Garmin who did the presentation for us at GPSL 2009 mentioned that their code has an arbitrary limit built in based on the routines they use to calculate their positions. In consumer grade units, to make calculations faster to perform they use approximations based on a GPS being used near the ground so they become inaccurate at very high altitudes. If I recall correctly their formulas start to become inaccurate when you're 2 or 3 thousand feet up so their consumer code is designed to stop working before that happens. I suspect other manufacturers do similar things.

73, Bruce
VE5BNC

----- Original Message -----

From: Joe
To: GPSL@yahoogroups.com
Cc: Mark Conner
Sent: Sunday, May 09, 2010 8:55 AM
Subject: Re: [GPSL] Re: gps ALT LIMITS

Ok, now I'm confused where does this 16 bit thing come into play and why?

Reason saying is we have had the Garmen hocky puck exceed that altitude 32,767 meters (107503 feet) several times, well in to the teens Like 112,000 and 118,000 feet. This is frustrating he he he,,

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/9/2010 9:46 AM, Mark Conner wrote:
Hi Joe,

I think you'll find that few have direct experience with how well GPS units function at that altitude. As far as I know, there aren't any that have known limitations at 125,000 ft that aren't already present at lower altitudes above 60,000 ft. The only possibility I can think of is software limitations that might prevent calculation or reporting of altitudes above 32,767 meters (that's the maximum value of a 16-bit signed integer).

73 de Mark N9XTN

7009. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 15:19:04 UTC
From: Pete Lilja
Topic: 7001 Message: 7009

Cloud cover and visual constraints aren't an issue for exempt flights? I
did not know that but it is good to know.

That "government-ese" in the FARs is too much. I much prefer plain English.

Pete
KC0GPB

On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...> wrote:

>
>
> Hi Joe,
>
> Nice thing about exempt flights is you can ignore cloud cover and
> visibility
> constraints.
>
> BTW, didn't see any special precautions using H2 inside that garage -
> even ran the garage door opener and did some flash pix!
>
> 73 de Mike W5VSI
>
>
> On 5/9/2010 20:00, Joe wrote:
> >
> > Steve made available a short 11 minute video of our last launch of
> NSS-48.
> > Enjoy, and thanks Steve, nice job, and good editing if you know what I
> > mean he he he..
> >
> > The wind i thought was a lot faster than the editing mentions.
> > Joe
> >
> > mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
> > --
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein

>
>

7010. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 15:43:40 UTC
From: L. Paul Verhage
Topic: 7001 Message: 7010

I hate the use of the term, "exempt flights". It makes it sound like we
want exemptions from FAR 101. I often have to explain to the flight service
office that we are flying under the requirements of FAR 101 and that we are
not asking for an exemption.

Paul

On Mon, May 10, 2010 at 10:19 AM, Pete Lilja <plilja@...> wrote:

>
>
> Cloud cover and visual constraints aren't an issue for exempt flights? I
> did not know that but it is good to know.
>
> That "government-ese" in the FARs is too much. I much prefer plain
> English.
>
> Pete
> KC0GPB
>
> On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...> wrote:
>
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>>
>> Hi Joe,
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>> Nice thing about exempt flights is you can ignore cloud cover and
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>> constraints.
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>> BTW, didn't see any special precautions using H2 inside that garage -
>> even ran the garage door opener and did some flash pix!
>>
>> 73 de Mike W5VSI
>>
>>
>> On 5/9/2010 20:00, Joe wrote:
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>> > Steve made available a short 11 minute video of our last launch of
>> NSS-48.
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>> > The wind i thought was a lot faster than the editing mentions.
>> > Joe
>> >

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>> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>
>
>
>

--
Onwards and Upwards,
Paul

7011. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 15:55:20 UTC
From: Joe
Topic: 7001 Message: 7011

On 5/10/2010 10:19 AM, Pete Lilja wrote:
>
>
> Cloud cover and visual constraints aren't an issue for exempt
> flights? I did not know that but it is good to know.
>
> That "government-ese" in the FARs is too much. I much prefer plain
> English.
tHAT IS WHY I JUST FORMED THAT YAHOO GROUP FOR THE EXPERIENCED BALLOON GROUPS TO WORK ON MAKING A TOTALLY UNDERSTANDABLE IN PLAIN ENGLISH VERSION crap caplock sorry gang, anyway, i'd liove to make a set of plans a eventual web page that goes through that document line by line in their words and then as a group of the experienced groups explain in english what it actually means, with examples of payloads that meet or do not meet the rule being covered. it would be a great beginner resource.

Joe WB9SBD
Near Space Sciences KB9KHO
>
> Pete
> KC0GPB
>
> On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Joe,
>
> Nice thing about exempt flights is you can ignore cloud cover and
> visibility
> constraints.
>
> BTW, didn't see any special precautions using H2 inside that garage -
> even ran the garage door opener and did some flash pix!
>
> 73 de Mike W5VSI
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> On 5/9/2010 20:00, Joe wrote:
> >
> > Steve made available a short 11 minute video of our last launch
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> > Enjoy, and thanks Steve, nice job, and good editing if you know
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>
>
>
>

7012. Near Space Conference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-10 17:58:15 UTC
From: L. Paul Verhage
Topic: 7012 Message: 7012

Here's a link
http://haans.rmtech.org/Speakers/Oholendt.php

--
Onwards and Upwards,
Paul

7013. Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 03:06:50 UTC
From: Mike Manes
Topic: 7013 Message: 7013

Hi Scott,

Well, you did note the major benefits of a national ARHAB organization, and they're not minor issues for some of us.

Liability insurance: EOSS submitted RFQs for liability coverage for its operations back in the salad days, and Lloyd's of London was the only underwriter to response - with a quote for absurd premiums. I note that one of our members has coverage under his homeowner's policy, but clubs like EOSS don't get such coverage. Even the ARRL policy won't cover balloon ops.

Dealing with regulatory agencies: And by this I mean the FAA. Now, EOSS has developed a pretty sound working relationship with Denver Center and NW Region, but some of their demands, such as having all flights back on the deck by 0930 local time, are unnecessarily intrusive. And comments posted to the FAA folks in DC seem to be totally ignored; my comments on the UAS NPRM, observing that the proposed rules don't mention FAR-101, and further, can be read to conflict with allowances under that long-established regulation. However, comments submitted by the national R/C model aircraft were not only acknowledged but also specifically addressed in the next round on that NPRM. So how far do you think that you, I or any other ARHAB ham might get with a proposal to update FAR-101, even to clarify the text, to define "impact strength", eliminate obsolete provisions like trailing wire antennas over 50 ft long and radar reflectors? Try getting something like I-gated APRS beacons in to replace phoned-in position reports every 2 hours!

Given that ARHABs been operating for over 20 years now without ANY national organization, I'm skeptical that the act of creating one would automatically induce the rise of a competing one. Now, I don't question your fear that the leadership of this national organization could get real pushy - however, application of tried and proven democratic principles with some means of balancing powers to the organization's charter could go a long way towards averting something like the ARES vs. RACES tempests that crop up locally here and there (guessing that's your ref point).

That's my $0.02, and it's about all I can afford to spend on it at this point.

73 de Mike W5VSI
CTO EOSS

On 5/10/2010 10:50, Scott Miller wrote:
> I think my first question would be why this NEEDS to be a national
> organization like NAR or USHPA or something. The primary advantages I
> see there are liability insurance and a degree of self-regulation that

> keeps the government from taking a more direct role in regulation.
>
> Those aren't bad things, but is ARHAB to this point? Personally I'd
> rather be part of an informal community (like this mailing list) than a
> formal organization. Been a part of too many ham clubs and things that
> get factionalized and politicized. As soon as you establish an
> organization, you'll wind up with some competing organization with a
> different take on the hobby, and then you'll have hobbyists outside all
> of the organizations resisting organization, or just being indifferent
> to it, and winding up at odds with those inside the organization(s).
> You get empire builders at the core of these organizations who care less
> about getting stuff done and more about maintaining control and exerting
> influence, and generally basking in their own importance.
>
> (Please note that this is NOT directed at anyone here, I've never met
> any balloonatics I didn't like, but it's a general observation on how
> these things often go.)
>
> My $0.02.
>
> Scott
> N1VG
>
> Joe wrote:
>>
>>
>> It seems like we all will be seriously starting to make a national
>> organization for ARHAB activities. Similar to the Tripoli and NAR groups
>> that the high power rocketry people have. This I think is a good idea
>> especially with the sudden influx of all the news media lately
>> ballooning has had.
>>
>> I think a nicely set up on the groups once it is made web page should be
>> a nice basic how to and what not to do page.
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>> I still see the EOSS gang still have the basic page up at
>> http://www.eoss.org/pubs/faqloon.htm<http://www.eoss.org/pubs/faqloon.htm>
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>> And their page that tries to explain the legal talk of FAR Part 101 and
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>> I propose while we are talking about the formation of the national
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>> this for a long time join me in really making part 101 soo clear and
>> understandable that anyone even with absolutely no knowledge of anything

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>> Joe WB9SBD
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> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7014. Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 03:16:15 UTC
From: Mike Manes
Topic: 6974 Message: 7014

Hey Bill,

Did you have any luck getting small quantities of the Saratel quad helix GPS antenna? We're down to our last MicroPulse VIZ flex circuit quad, and when I last checked Sarantel, they weren't interested in non-OEM qty orders.

73 de Mike W5VSI

On 5/9/2010 23:38, wb8elk@... wrote:
>
>
> Hi Rodney,
> I've flown the Inventek balloon mod module about 18 times in the past 2
> years....works great when you use a Sarantel Helical antenna with
> it....I should have the boards available with the chip and antenna near
> the end of the month. I tested it out about 3 weeks ago on a UAH flight
> with a Microtrak300 and it powered right up and started to report it's
> location within a minute. It was a lot faster position lock than using a
> Garmin 18.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Rodney Sparks <rodney@...>
> To: GPSL@yahoogroups.com
> Sent: Sun, May 9, 2010 11:03 am
> Subject: Re: [GPSL] Re: gps ALT LIMITS
>
> Have you guys seen this module that goes to 135k feet? Any experiences
> with it?
>
> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>
>
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney
>
> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...
> <mailto:bruce.coates@...>> wrote:
>
>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based on

> the routines they use to calculate their positions. In consumer
> grade units, to make calculations faster to perform they use
> approximations based on a GPS being used near the ground so they
> become inaccurate at very high altitudes. If I recall correctly
> their formulas start to become inaccurate when you're 2 or 3
> thousand feet up so their consumer code is designed to stop working
> before that happens. I suspect other manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into play
> and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that
> altitude 32,767 meters (107503 feet) several times, well in to
> the teens Like 112,000 and 118,000 feet. This is frustrating he
> he he,,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>> Hi Joe,
>>
>> I think you'll find that few have direct experience with how
>> well GPS units function at that altitude. As far as I know,
>> there aren't any that have known limitations at 125,000 ft
>> that aren't already present at lower altitudes above 60,000
>> ft. The only possibility I can think of is software
>> limitations that might prevent calculation or reporting of
>> altitudes above 32,767 meters (that's the maximum value of a
>> 16-bit signed integer).
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>> 73 de Mark N9XTN
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7015. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 03:38:33 UTC
From: Mike Manes
Topic: 7001 Message: 7015

Hi Pete,

Yeah, 14 CFR 101.1 is a tough read. But the bottom line is that if
your payload string conforms to the exempt limits (< 6# per box, <12#
total, 50# "impact strength" line, etc), then the ONLY rule that applies
is the "Catch 22" 101.7 "Hazardous operations". 101.33, which includes
the cloud cover and vis limits, only applies to non-exempt flights.

BTW, if you get crosswise with your FAA folks, they can pull a 101.7
job on you. It's happened. So behave!

There's a "readable" version of the balloon-related bits in FAR-101,
with how I've interpreted them, on the EOSS web site:

www.eoss.org/pubs/far_annotated.htm

73 de Mike W5VSI

On 5/10/2010 09:19, Pete Lilja wrote:
>
>
> Cloud cover and visual constraints aren't an issue for exempt flights?
> I did not know that but it is good to know.
>
> That "government-ese" in the FARs is too much. I much prefer plain English.
>
> Pete
> KC0GPB
>
> On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Joe,
>
> Nice thing about exempt flights is you can ignore cloud cover and
> visibility
> constraints.
>
> BTW, didn't see any special precautions using H2 inside that garage -
> even ran the garage door opener and did some flash pix!
>
> 73 de Mike W5VSI
>
>
>
> On 5/9/2010 20:00, Joe wrote:

> >
> > Steve made available a short 11 minute video of our last launch
> of NSS-48.
> > Enjoy, and thanks Steve, nice job, and good editing if you know
> what I
> > mean he he he..
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> > The wind i thought was a lot faster than the editing mentions.
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> > mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
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> > http://www.idle-tyme.com
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7016. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 03:54:22 UTC
From: Mike Manes
Topic: 7001 Message: 7016

It's been my experience that many of the FAA folks have as much
trouble reading that grammatical hell hole as we do! It helps to
replace "exempt" with a specific reference to 14 CFR 101.1(a)(4)
and a statement that you fully conform to that regulation.

73 de Mike W5VSI

On 5/10/2010 09:43, L. Paul Verhage wrote:
>
>
> I hate the use of the term, "exempt flights". It makes it sound like we
> want exemptions from FAR 101. I often have to explain to the flight
> service office that we are flying under the requirements of FAR 101 and
> that we are not asking for an exemption.
> Paul
>
> On Mon, May 10, 2010 at 10:19 AM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
>
> Cloud cover and visual constraints aren't an issue for exempt
> flights? I did not know that but it is good to know.
>
> That "government-ese" in the FARs is too much. I much prefer plain
> English.
>
> Pete
> KC0GPB
>
> On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Joe,
>
> Nice thing about exempt flights is you can ignore cloud cover
> and visibility
> constraints.
>
> BTW, didn't see any special precautions using H2 inside that
> garage -
> even ran the garage door opener and did some flash pix!
>
> 73 de Mike W5VSI
>

>
>
> On 5/9/2010 20:00, Joe wrote:
> >
> > Steve made available a short 11 minute video of our last
> launch of NSS-48.
> > Enjoy, and thanks Steve, nice job, and good editing if you
> know what I
> > mean he he he..
> >
> > The wind i thought was a lot faster than the editing mentions.
> > Joe
> >
> > mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
> > --
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7017. Re: [GPSL] Fwd: NSS-48 launch Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 04:00:18 UTC
From: Mike Manes
Topic: 7001 Message: 7017

Hi Joe,

I did that back in 2001. See:
www.eoss.org/pubs/far_annotated.htm
73 de Mike W5VSI

On 5/10/2010 09:55, Joe wrote:
>
>
>
> On 5/10/2010 10:19 AM, Pete Lilja wrote:
>> Cloud cover and visual constraints aren't an issue for exempt
>> flights? I did not know that but it is good to know.
>>
>> That "government-ese" in the FARs is too much. I much prefer plain
>> English.
> tHAT IS WHY I JUST FORMED THAT YAHOO GROUP FOR THE EXPERIENCED BALLOON
> GROUPS TO WORK ON MAKING A TOTALLY UNDERSTANDABLE IN PLAIN ENGLISH
> VERSION crap caplock sorry gang, anyway, i'd liove to make a set of
> plans a eventual web page that goes through that document line by line
> in their words and then as a group of the experienced groups explain in
> english what it actually means, with examples of payloads that meet or
> do not meet the rule being covered. it would be a great beginner resource.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>>
>> Pete
>> KC0GPB
>>
>> On Sun, May 9, 2010 at 10:37 PM, Mike Manes <mrmanes@...
>> <mailto:mrmanes@...>> wrote:
>>
>> Hi Joe,
>>
>> Nice thing about exempt flights is you can ignore cloud cover and
>> visibility
>> constraints.
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>> BTW, didn't see any special precautions using H2 inside that garage -
>> even ran the garage door opener and did some flash pix!
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>> 73 de Mike W5VSI
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>> > mms://yellowthunder.org/images/video/NSS-48_5-8-10.wmv
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7018. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 04:19:24 UTC
From: Meer, Stephen
Topic: 6974 Message: 7018

There is a distributor in TX that gladly sells the Sarantel antennas in small quantities. I purchased a couple last year for the B-LAN master module project. I don't recall the name off the top of my head but I will grab it when I get back to the office tomorrow evening.

/s/SM2. K0SCC

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Cc: wb8elk@aol.com
Sent: Mon May 10 21:16:15 2010
Subject: [GPSL] Sarantel GPS quad helix antennas

Hey Bill,

Did you have any luck getting small quantities of the Saratel quad helix GPS antenna? We're down to our last MicroPulse VIZ flex circuit quad, and when I last checked Sarantel, they weren't interested in non-OEM qty orders.

73 de Mike W5VSI

On 5/9/2010 23:38, wb8elk@aol.com<mailto:wb8elk%40aol.com> wrote:
>
>
> Hi Rodney,
> I've flown the Inventek balloon mod module about 18 times in the past 2
> years....works great when you use a Sarantel Helical antenna with
> it....I should have the boards available with the chip and antenna near
> the end of the month. I tested it out about 3 weeks ago on a UAH flight
> with a Microtrak300 and it powered right up and started to report it's
> location within a minute. It was a lot faster position lock than using a
> Garmin 18.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Rodney Sparks <rodney@rsparks.com<mailto:rodney%40rsparks.com>>
> To: GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
> Sent: Sun, May 9, 2010 11:03 am
> Subject: Re: [GPSL] Re: gps ALT LIMITS
>
> Have you guys seen this module that goes to 135k feet? Any experiences
> with it?

>
> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>
>
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney
>
> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates
<bruce.coates@sasktel.net<mailto:bruce.coates%40sasktel.net>
> <mailto:bruce.coates@sasktel.net<mailto:bruce.coates%40sasktel.net>>> wrote:
>
>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based on
> the routines they use to calculate their positions. In consumer
> grade units, to make calculations faster to perform they use
> approximations based on a GPS being used near the ground so they
> become inaccurate at very high altitudes. If I recall correctly
> their formulas start to become inaccurate when you're 2 or 3
> thousand feet up so their consumer code is designed to stop working
> before that happens. I suspect other manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@mwt.net<mailto:nss%40mwt.net>>
> *To:* GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>>
> *Cc:* Mark Conner <mailto:mconner1@gmail.com<mailto:mconner1%40gmail.com>>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into play
> and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that
> altitude 32,767 meters (107503 feet) several times, well in to
> the teens Like 112,000 and 118,000 feet. This is frustrating he
> he he,,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 5/9/2010 9:46 AM, Mark Conner wrote:
>> Hi Joe,

>>
>> I think you'll find that few have direct experience with how
>> well GPS units function at that altitude. As far as I know,
>> there aren't any that have known limitations at 125,000 ft
>> that aren't already present at lower altitudes above 60,000
>> ft. The only possibility I can think of is software
>> limitations that might prevent calculation or reporting of
>> altitudes above 32,767 meters (that's the maximum value of a
>> 16-bit signed integer).
>>
>> 73 de Mark N9XTN
>>
>>
>
>
>
>
>
>
>

--
Mike Manes mrmanes@gmail.com<mailto:mrmanes%40gmail.com> Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7019. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 08:13:25 UTC
From: wb8elk@aol.com
Topic: 6974 Message: 7019

Hi Mike,

I get mine from Jim D. Gray and Associates....they aren't cheap however...about $25 each....used to be $16 each just a few months ago....but they sure do work well.

Sarantel 1010021 Geohelix-S Active GPS Antenna 24dB

http://www.jdgastore.com/index.php?act=viewProd&productId=15

There's a couple of versions both active and passive...but this is the one that I've flight tested many times.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Sent: Mon, May 10, 2010 10:16 pm
Subject: [GPSL] Sarantel GPS quad helix antennas

Hey Bill,

Did you have any luck getting small quantities of the Saratel quad helix GPS antenna? We're down to our last MicroPulse VIZ flex circuit quad, and when I last checked Sarantel, they weren't interested in non-OEM qty orders.

73 de Mike W5VSI

On 5/9/2010 23:38, wb8elk@... wrote:
>
>
> Hi Rodney,
> I've flown the Inventek balloon mod module about 18 times in the past 2
> years....works great when you use a Sarantel Helical antenna with
> it....I should have the boards available with the chip and antenna near
> the end of the month. I tested it out about 3 weeks ago on a UAH flight
> with a Microtrak300 and it powered right up and started to report it's
> location within a minute. It was a lot faster position lock than using a
> Garmin 18.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Rodney Sparks <rodney@...>

> To: GPSL@yahoogroups.com
> Sent: Sun, May 9, 2010 11:03 am
> Subject: Re: [GPSL] Re: gps ALT LIMITS
>
> Have you guys seen this module that goes to 135k feet? Any experiences
> with it?
>
> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
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>
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>
> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates <bruce.coates@...
> <mailto:bruce.coates@...>> wrote:
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>
>
> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
> mentioned that their code has an arbitrary limit built in based on
> the routines they use to calculate their positions. In consumer
> grade units, to make calculations faster to perform they use
> approximations based on a GPS being used near the ground so they
> become inaccurate at very high altitudes. If I recall correctly
> their formulas start to become inaccurate when you're 2 or 3
> thousand feet up so their consumer code is designed to stop working
> before that happens. I suspect other manufacturers do similar things.
> 73, Bruce
> VE5BNC
> ----- Original Message -----
>
> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
> Ok, now I'm confused where does this 16 bit thing come into play
> and why?
>
> Reason saying is we have had the Garmen hocky puck exceed that
> altitude 32,767 meters (107503 feet) several times, well in to
> the teens Like 112,000 and 118,000 feet. This is frustrating he
> he he,,
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>> that aren't already present at lower altitudes above 60,000
>> ft. The only possibility I can think of is software
>> limitations that might prevent calculation or reporting of
>> altitudes above 32,767 meters (that's the maximum value of a
>> 16-bit signed integer).
>>
>> 73 de Mark N9XTN
>>
>>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7020. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 12:33:44 UTC
From: L. Paul Verhage
Topic: 7013 Message: 7020

We're coming up on the 25th anniversary of the first modern day near space launch. I'd like to see us commenorate the event with an ARHAB year, modelled after IGY. I tried to do something like this several years ago and it didn't take off, but I'd like to try again. Create Space is a publish on demand website. We could create a book of all the launches and stories of 2012 as a way to celebrate the year.

I talked to the AMA last year about insurance. Let me try to bring up this conversation again and involve the people I talked with last year.

I agree with Mike that an ARHAB organization shouldn't be pushy or regulating (we already have enough regulation with the FAA and FCC). But one voice would be great.

Paul
On Mon, May 10, 2010 at 10:06 PM, Mike Manes <mrmanes@...> wrote:

> Hi Scott,
>
> Well, you did note the major benefits of a national ARHAB organization,
> and they're not minor issues for some of us.
>
> Liability insurance: EOSS submitted RFQs for liability coverage for its
> operations back in the salad days, and Lloyd's of London was the only
> underwriter to response - with a quote for absurd premiums. I note that
> one of our members has coverage under his homeowner's policy, but clubs
> like EOSS don't get such coverage. Even the ARRL policy won't cover
> balloon
> ops.
>
> Dealing with regulatory agencies: And by this I mean the FAA. Now, EOSS
> has developed a pretty sound working relationship with Denver Center and
> NW Region, but some of their demands, such as having all flights back on
> the deck by 0930 local time, are unnecessarily intrusive. And comments
> posted to the FAA folks in DC seem to be totally ignored; my comments
> on the UAS NPRM, observing that the proposed rules don't mention FAR-101,
> and further, can be read to conflict with allowances under that long-
> established regulation. However, comments submitted by the national R/C
> model aircraft were not only acknowledged but also specifically addressed
> in the next round on that NPRM. So how far do you think that you, I or any
> other ARHAB ham might get with a proposal to update FAR-101, even to
> clarify
> the text, to define "impact strength", eliminate obsolete provisions like
> trailing wire antennas over 50 ft long and radar reflectors? Try getting
> something like I-gated APRS beacons in to replace phoned-in position
> reports every 2 hours!

>
> Given that ARHABs been operating for over 20 years now without ANY
> national organization, I'm skeptical that the act of creating one would
> automatically induce the rise of a competing one. Now, I don't question
> your fear that the leadership of this national organization could get
> real pushy - however, application of tried and proven democratic principles
> with some means of balancing powers to the organization's charter could
> go a long way towards averting something like the ARES vs. RACES tempests
> that crop up locally here and there (guessing that's your ref point).
>
> That's my $0.02, and it's about all I can afford to spend on it at this
> point.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 5/10/2010 10:50, Scott Miller wrote:
> > I think my first question would be why this NEEDS to be a national
> > organization like NAR or USHPA or something. The primary advantages I
> > see there are liability insurance and a degree of self-regulation that
> > keeps the government from taking a more direct role in regulation.
> >
> > Those aren't bad things, but is ARHAB to this point? Personally I'd
> > rather be part of an informal community (like this mailing list) than a
> > formal organization. Been a part of too many ham clubs and things that
> > get factionalized and politicized. As soon as you establish an
> > organization, you'll wind up with some competing organization with a
> > different take on the hobby, and then you'll have hobbyists outside all
> > of the organizations resisting organization, or just being indifferent
> > to it, and winding up at odds with those inside the organization(s).
> > You get empire builders at the core of these organizations who care less
> > about getting stuff done and more about maintaining control and exerting
> > influence, and generally basking in their own importance.
> >
> > (Please note that this is NOT directed at anyone here, I've never met
> > any balloonatics I didn't like, but it's a general observation on how
> > these things often go.)
> >
> > My $0.02.
> >
> > Scott
> > N1VG
> >
> > Joe wrote:
> >>
> >>
> >> It seems like we all will be seriously starting to make a national
> >> organization for ARHAB activities. Similar to the Tripoli and NAR groups
> >> that the high power rocketry people have. This I think is a good idea
> >> especially with the sudden influx of all the news media lately

> >> ballooning has had.
> >>
> >> I think a nicely set up on the groups once it is made web page should be
> >> a nice basic how to and what not to do page.
> >>
> >> I still see the EOSS gang still have the basic page up at
> >> http://www.eoss.org/pubs/faqloon.htm<
> http://www.eoss.org/pubs/faqloon.htm>
> >> Man does that bring back memories! it's clearly out dated, but also a
> >> lot is still good strong advise.
> >>
> >> And their page that tries to explain the legal talk of FAR Part 101 and
> >> how it effects our flights at,
> >> http://eoss.org/pubs/far_annotated.htm
> >> <http://eoss.org/pubs/far_annotated.htm>
> >> Is a major good start.
> >>
> >> I propose while we are talking about the formation of the national
> >> organization or group, how about all you out there that have been doing
> >> this for a long time join me in really making part 101 soo clear and
> >> understandable that anyone even with absolutely no knowledge of anything
> >> aviation regulation wise is it in perfect clear easy to understand
> >> language. with examples of payloads that would meet a typical rule and
> >> a payload the does not meet the rules. make it incredibly simple.
> >>
> >> who is with me on doing this task as a group effort?
> >>
> >> If so I made a yahoo group for us to do this in as a group. it's at.
> >>
> >> http://groups.yahoo.com/group/FarPart101/
> >> <http://groups.yahoo.com/group/FarPart101/>
> >>
> >> Anyone?
> >>
> >> Joe WB9SBD
> >> Near Space Sciences KB9KHO
> >>
> >>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
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>
> --

> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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--
Onwards and Upwards,
Paul

7021. GPSL Schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 17:33:00 UTC
From: Zack Clobes
Topic: 451 Message: 7021

So I'm hearing a lot of "national organization" chatter again... Do we need to schedule some formal time to discuss this at GPSL?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7022. Re: [GPSL] GPSL Schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 17:53:29 UTC
From: BASE
Topic: 451 Message: 7022

Zach,

I'd suggest that we have the conversation right after lunch on Friday. I won't need (or take) 30 minutes. You could move my talk to the end, after Brian's talk on UI-View.

Howard

--- On Tue, 5/11/10, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: [GPSL] GPSL Schedule
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Tuesday, May 11, 2010, 1:33 PM

So I'm hearing a lot of "national organization" chatter again... Do we need to schedule some formal time to discuss this at GPSL?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler .org

7023. RE: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 18:07:53 UTC
From: Meer, Stephen
Topic: 6974 Message: 7023

I have purchased a number of antennas and other GPS accessories from these guys over the last few years . They delivered as promised and the couple of time I spoke to them were helpful and knowledgeable. I have no other association with them other that being a past and infrequent customer.

http://www.jdgastore.com/

/s/SM2 K0SCC

From: Meer, Stephen
Sent: Monday, May 10, 2010 10:19 PM
To: 'GPSL@yahoogroups.com'
Subject: Re: [GPSL] Sarantel GPS quad helix antennas

There is a distributor in TX that gladly sells the Sarantel antennas in small quantities. I purchased a couple last year for the B-LAN master module project. I don't recall the name off the top of my head but I will grab it when I get back to the office tomorrow evening.

/s/SM2. K0SCC

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when I last checked Sarantel, they weren't interested in non-OEM qty orders.

73 de Mike W5VSI

On 5/9/2010 23:38, wb8elk@aol.com<mailto:wb8elk%40aol.com> wrote:
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> Hi Rodney,
> I've flown the Inventek balloon mod module about 18 times in the past 2
> years....works great when you use a Sarantel Helical antenna with
> it....I should have the boards available with the chip and antenna near
> the end of the month. I tested it out about 3 weeks ago on a UAH flight
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> location within a minute. It was a lot faster position lock than using a
> Garmin 18.

> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Rodney Sparks <rodney@rsparks.com<mailto:rodney%40rsparks.com>>
> To: GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
> Sent: Sun, May 9, 2010 11:03 am
> Subject: Re: [GPSL] Re: gps ALT LIMITS
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> Have you guys seen this module that goes to 135k feet? Any experiences
> with it?
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> http://www.inventeksys.com/html/ism300f2-c5-v0004.html
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> On Sun, May 9, 2010 at 8:14 AM, Bruce Coates
<bruce.coates@sasktel.net<mailto:bruce.coates%40sasktel.net>
> <mailto:bruce.coates@sasktel.net<mailto:bruce.coates%40sasktel.net>>> wrote:
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> Hi Joe
> The fellow Garmin who did the presentation for us at GPSL 2009
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> 73, Bruce
> VE5BNC
> ----- Original Message -----
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> *From:* Joe <mailto:nss@mwt.net<mailto:nss%40mwt.net>>
> *To:* GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>>
> *Cc:* Mark Conner <mailto:mconner1@gmail.com<mailto:mconner1%40gmail.com>>
> *Sent:* Sunday, May 09, 2010 8:55 AM
> *Subject:* Re: [GPSL] Re: gps ALT LIMITS
>
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>> 73 de Mark N9XTN
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Mike Manes mrmanes@gmail.com<mailto:mrmanes%40gmail.com> Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7024. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 18:15:32 UTC
From: Zack Clobes
Topic: 6974 Message: 7024

I've had good luck with Jim D. Gray too.

For the record, I tried one of their cheaper "Quadrifiler V GPS Antenna, +3V 14db", part number QV1 with the Inventek GPS, and I couldn't get a lock from it. It's possible that I had a solder bridge or something, but I unsoldered that one, and put the Sarantel in its place, and it's been working perfectly ever since.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, May 11, 2010 at 1:07 PM, Meer, Stephen <smeer@...> wrote:

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> these guys over the last few years . They delivered as promised and the
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> http://www.jdgastore.com/
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> /s/SM2 K0SCC
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> *From:* Meer, Stephen
> *Sent:* Monday, May 10, 2010 10:19 PM
> *To:* 'GPSL@yahoogroups.com'
> *Subject:* Re: [GPSL] Sarantel GPS quad helix antennas
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> small quantities. I purchased a couple last year for the B-LAN master module
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> /s/SM2. K0SCC
>
> ***This message has been sent via the Intrado Wireless Information
> Network.***
> ------------------------------
>
> *From*: GPSL@yahoogroups.com
> *To*: GPSL@yahoogroups.com
> *Cc*: wb8elk@...
> *Sent*: Mon May 10 21:16:15 2010
> *Subject*: [GPSL] Sarantel GPS quad helix antennas
>
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> Hey Bill,
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> Did you have any luck getting small quantities of the Saratel quad helix
> GPS antenna? We're down to our last MicroPulse VIZ flex circuit quad, and
> when I last checked Sarantel, they weren't interested in non-OEM qty
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> 73 de Mike W5VSI
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> On 5/9/2010 23:38, wb8elk@... <wb8elk%40aol.com> wrote:
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> > Hi Rodney,
> > I've flown the Inventek balloon mod module about 18 times in the past 2
> > years....works great when you use a Sarantel Helical antenna with
> > it....I should have the boards available with the chip and antenna near
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> > - Bill WB8ELK
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> > -----Original Message-----
> > From: Rodney Sparks <rodney@rsparks.com <rodney%40rsparks.com>>
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Sent: Sun, May 9, 2010 11:03 am
> > Subject: Re: [GPSL] Re: gps ALT LIMITS
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> > Have you guys seen this module that goes to 135k feet? Any experiences
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> > *To:* GPSL@yahoogroups.com <GPSL%40yahoogroups.com> <mailto:
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> "Things should be made as simple as possible, but not more so."
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>
>

7025. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 18:28:19 UTC
From: wb8elk@aol.com
Topic: 6974 Message: 7025

Zack....the Sarantel has 10 dB more gain as well so that might make the difference.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL@yahoogroups.com
Sent: Tue, May 11, 2010 1:15 pm
Subject: Re: [GPSL] Sarantel GPS quad helix antennas

I've had good luck with Jim D. Gray too.

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Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

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http://www.jdgastore.com/

/s/SM2 K0SCC

From: Meer, Stephen
Sent: Monday, May 10, 2010 10:19 PM
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Subject: Re: [GPSL] Sarantel GPS quad helix antennas

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/s/SM2. K0SCC

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Cc: wb8elk@...

Sent: Mon May 10 21:16:15 2010
Subject: [GPSL] Sarantel GPS quad helix antennas

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On 5/9/2010 23:38, wb8elk@... wrote:
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> ----- Original Message -----
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> *From:* Joe <mailto:nss@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Mark Conner <mailto:mconner1@...>
> *Sent:* Sunday, May 09, 2010 8:55 AM
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7026. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 18:33:39 UTC
From: Zack Clobes
Topic: 6974 Message: 7026

Yes, I know it's down in performance, but you would think that in a clear view of the sky, it wouldn't make *that *much difference. For what it's worth, the guy at Jim Gray's through that it would work...

One other thing about that antenna, when I put it on my dash in the Jeep next to my Garmin Nuvi, the Nuvi would immediately lose its satellite lock when the Inventek would fire up. It's almost like the Inventek/antenna/amp were going into some sort of oscillation.

All of those problems went away with the Sarantel.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, May 11, 2010 at 1:28 PM, <wb8elk@...> wrote:

>
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> Zack....the Sarantel has 10 dB more gain as well so that might make the
> difference.
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> - Bill WB8ELK
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> From: Zack Clobes <zclobes@gmail.com>
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> Sent: Tue, May 11, 2010 1:15 pm
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>> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
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7027. GPSL Participation Survey

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 19:06:24 UTC
From: Zack Clobes
Topic: 7027 Message: 7027

I'm getting close to the point of needing finalized numbers for food, chairs, etc. Please take a few minutes to fill out the Participation survey so that I can give intelligent numbers to people who ask.. :-)

I would greatly appreciate it if you would nominate one spokesperson from each group to compile your answers so I won't have to guess who's affiliated with whom. If at all possible, please have this filled out by June 13th. If you are not 100% sure at this point, please give me your best estimate, and maybe a note in the Comments section that it may be changing.

http://spreadsheets.google.com/viewform?formkey=dDNMTHktaGM1blluWG1ZNHhfTWgtU1E6MQ

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7028. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 19:13:11 UTC
From: Joe
Topic: 7013 Message: 7028

On 5/11/2010 7:33 AM, L. Paul Verhage wrote:
>
>
> We're coming up on the 25th anniversary of the first modern day near
> space launch. I'd like to see us commenorate the event with an ARHAB
> year, modelled after IGY. I tried to do something like this several
> years ago and it didn't take off, but I'd like to try again. Create
> Space is a publish on demand website. We could create a book of all
> the launches and stories of 2012 as a way to celebrate the year.
This sounds cool!
> I talked to the AMA last year about insurance. Let me try to bring up
> this conversation again and involve the people I talked with last year.
Interested,

Another thought is,,, that i haven't pushed deep into is forming a corporation for your persnal ballon group. like a LLC or similar to provide the liability buffer between the group and it's members? i haven't dug deep into any of these ideas LLC's of incorporation like a 5013c etc.. i have enough tax headaches as it is at the moment to create another entity to keep track of. anyone have any backgrounds on the levels of member ship liability protections from these method?
> I agree with Mike that an ARHAB organization shouldn't be pushy or
> regulating (we already have enough regulation with the FAA and FCC).
> But one voice would be great.
And I agree here also. Not pushy But the one voice as Mike stated with his level of being ignored when talking to the FAA.

Mike knows about it, and the FAA is rally the way they are. Like you know if you had a payload that is coming down, and it might land someplace not really safe,, Like a busy downtown large city, a nuke plant,, or a major airport Like Chicago Ohare international. The payload is falling towards one of these examples.

You know they have absolute no care if it is or not if you met all the guidelines of far part 101, but then of course that magic clause, that they can get you on on any flight at all.

But the FAA will not allow you to remedy the situation. It's coming down towards Ohare! and it's gonna land there. but thats fine,,, wow huh. But say you see it's going to land there and you have the capability to steer the payload away from Ohare so it lands in a safe place. THIS IS ABSOLUTELY FORBIDDEN!!!!

If you are able to steer it the FAA calls it a UAV now and if you fly a UAV that is not flight certified with all the same certs a 747 must pass. Imagine the trouble they could get you in.

They see absolute no difference between a several ton Predator UAV and a under 1 pound UAV.. BOTH in the rules are UAV's and are not allowed in the NAS PERIOD!

That's whats crazy! even a balloon that flys under the Exempt cause area. if it flies as normal. fine, of you can control where it goes it now a free balloon under exempt laws now it is now a UAV!! i fought with them for 2 years on this one. But I'm only one guy.

We had better luck getting permission to launch both a super loki ballistic missile and a large rocket with a "P" size motor from a balloon launch platform right here in wisconsin was far easier getting permission that it is getting a steerable exempt payload permission. crazy.

Joe WB9SBD
Near Space Sciences KB9KHO
>
> Paul
> On Mon, May 10, 2010 at 10:06 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Scott,
>
> Well, you did note the major benefits of a national ARHAB
> organization,
> and they're not minor issues for some of us.
>
> Liability insurance: EOSS submitted RFQs for liability coverage
> for its
> operations back in the salad days, and Lloyd's of London was the only
> underwriter to response - with a quote for absurd premiums. I
> note that
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> that crop up locally here and there (guessing that's your ref point).
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> That's my $0.02, and it's about all I can afford to spend on it at
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> care less
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> > influence, and generally basking in their own importance.
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> > (Please note that this is NOT directed at anyone here, I've
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> <mailto:GPSL-fullfeatured@yahoogroups.com>

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>
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>

7029. Re: [GPSL] GPSL Schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 19:22:47 UTC
From: Joe
Topic: 451 Message: 7029
Attachments: 1 described; binary payloads are missing from this source WARC

Dunno

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/11/2010 12:33 PM, Zack Clobes wrote:
>
>
> So I'm hearing a lot of "national organization" chatter again... Do we
> need to schedule some formal time to discuss this at GPSL?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>

7030. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 19:56:37 UTC
From: Zack Clobes
Topic: 7013 Message: 7030

I've been having discussions again with my State Farm agent, and basically he told me that if it was MY balloon that "lived" at MY house, then the home owners liability would extend to the balloon.

I've already taken a slightly different route and put my balloons under my home-based LLC business. Now my home owners coverage has become more of a gray area, and he recommended that I purchase a general liability coverage for my LLC, which runs a little under $300 per year.

As far as just creating an LLC to fly balloons under, my opinion is that by itself would be a foolish thing to do. If your balloon falls and cracks a windshield, then it doesn't really matter if the LLC cracked it or you did, someone is still going to have to pay to replace that glass.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, May 11, 2010 at 2:13 PM, Joe <nss@...> wrote:

>
>
> On 5/11/2010 7:33 AM, L. Paul Verhage wrote:
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> We're coming up on the 25th anniversary of the first modern day near space
> launch. I'd like to see us commenorate the event with an ARHAB year,
> modelled after IGY. I tried to do something like this several years ago and
> it didn't take off, but I'd like to try again. Create Space is a publish on
> demand website. We could create a book of all the launches and stories of
> 2012 as a way to celebrate the year.
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> This sounds cool!
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> I talked to the AMA last year about insurance. Let me try to bring up this
> conversation again and involve the people I talked with last year.
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> Interested,
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> Another thought is,,, that i haven't pushed deep into is forming a
> corporation for your persnal ballon group. like a LLC or similar to provide
> the liability buffer between the group and it's members? i haven't dug deep
> into any of these ideas LLC's of incorporation like a 5013c etc.. i have
> enough tax headaches as it is at the moment to create another entity to keep
> track of. anyone have any backgrounds on the levels of member ship
> liability protections from these method?

>
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> I agree with Mike that an ARHAB organization shouldn't be pushy or
> regulating (we already have enough regulation with the FAA and FCC). But
> one voice would be great.
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> And I agree here also. Not pushy But the one voice as Mike stated with
> his level of being ignored when talking to the FAA.
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> Mike knows about it, and the FAA is rally the way they are. Like you know
> if you had a payload that is coming down, and it might land someplace not
> really safe,, Like a busy downtown large city, a nuke plant,, or a major
> airport Like Chicago Ohare international. The payload is falling towards
> one of these examples.
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> You know they have absolute no care if it is or not if you met all the
> guidelines of far part 101, but then of course that magic clause, that they
> can get you on on any flight at all.
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> But the FAA will not allow you to remedy the situation. It's coming down
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> the payload away from Ohare so it lands in a safe place. THIS IS ABSOLUTELY
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> UAV that is not flight certified with all the same certs a 747 must pass.
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> area. if it flies as normal. fine, of you can control where it goes it now
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> for 2 years on this one. But I'm only one guy.
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> We had better luck getting permission to launch both a super loki ballistic
> missile and a large rocket with a "P" size motor from a balloon launch
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> Joe WB9SBD
> Near Space Sciences KB9KHO
>
>
>
> Paul

> On Mon, May 10, 2010 at 10:06 PM, Mike Manes <mrmanes@...> wrote:
>
>> Hi Scott,
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>> Well, you did note the major benefits of a national ARHAB organization,
>> and they're not minor issues for some of us.
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7031. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 20:41:46 UTC
From: Joe
Topic: 7013 Message: 7031
Attachments: 1 described; binary payloads are missing from this source WARC

it was just a thought,

as far as the LLC goes.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

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>> >>
>> >> http://groups.yahoo.com/group/FarPart101/
>> >> <http://groups.yahoo.com/group/FarPart101/>
>> >>
>> >> Anyone?
>> >>
>> >> Joe WB9SBD
>> >> Near Space Sciences KB9KHO
>> >>
>> >>
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >

>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>
>
>
>
>

7032. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 21:26:49 UTC
From: Mike Manes
Topic: 6974 Message: 7032

Thanks, Bill,

So I guess the trick is to find a Satantel distributor willing to work
with us onesie small fry (another argument for a natioal organization, BTW).

The Rockwell Jupiters have fair to middlin' front ends, so we've never
needed an external preamp - just a decent passive quad helix with a few
inches of coax feedline. Since there are no active devices in the antenna,
it can be located with a clear view of the sky without thermal concerns.

I'll pop over there and see what I can drum up.

73 de Mike W5VSI

On 5/11/2010 02:13, wb8elk@... wrote:
>
>
> Hi Mike,
> I get mine from Jim D. Gray and Associates....they aren't cheap
> however...about $25 each....used to be $16 each just a few months
> ago....but they sure do work well.
> **
> **
> Sarantel 1010021 Geohelix-S Active GPS Antenna 24dB
> http://www.jdgastore.com/index.php?act=viewProd&productId=15
> <http://www.jdgastore.com/index.php?act=viewProd&productId=15>
> There's a couple of versions both active and passive...but this is the
> one that I've flight tested many times.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: wb8elk@...
> Sent: Mon, May 10, 2010 10:16 pm
> Subject: [GPSL] Sarantel GPS quad helix antennas
>
> Hey Bill,
>
> Did you have any luck getting small quantities of the Saratel quad helix
> GPS antenna? We're down to our last MicroPulse VIZ flex circuit quad, and
> when I last checked Sarantel, they weren't interested in non-OEM qty orders.
>

> 73 de Mike W5VSI
>
> On 5/9/2010 23:38, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
> >
> >
> > Hi Rodney,
> > I've flown the Inventek balloon mod module about 18 times in the past 2
> > years....works great when you use a Sarantel Helical antenna with
> > it....I should have the boards available with the chip and antenna near
> > the end of the month. I tested it out about 3 weeks ago on a UAH flight
> > with a Microtrak300 and it powered right up and started to report it's
> > location within a minute. It was a lot faster position lock than using a
> > Garmin 18.
> > - Bill WB8ELK
> >
> >
> >
> >
> > -----Original Message-----
> > From: Rodney Sparks <rodney@... <mailto:rodney%40rsparks.com>>
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > Sent: Sun, May 9, 2010 11:03 am
> > Subject: Re: [GPSL] Re: gps ALT LIMITS
> >
> > Have you guys seen this module that goes to 135k feet? Any experiences
> > with it?
> >
> > http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>
> > <http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>>
> >
> > <http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>>-Rodney
> >
> > On Sun, May 9, 2010 at 8:14 AM, Bruce Coates
> <bruce.coates@... <mailto:bruce.coates%40sasktel.net>
> > <mailto:bruce.coates@...
> <mailto:bruce.coates%40sasktel.net>>> wrote:
> >
> >
> >
> > Hi Joe
> > The fellow Garmin who did the presentation for us at GPSL 2009
> > mentioned that their code has an arbitrary limit built in based on
> > the routines they use to calculate their positions. In consumer
> > grade units, to make calculations faster to perform they use
> > approximations based on a GPS being used near the ground so they
> > become inaccurate at very high altitudes. If I recall correctly
> > their formulas start to become inaccurate when you're 2 or 3

> > thousand feet up so their consumer code is designed to stop working
> > before that happens. I suspect other manufacturers do similar things.
> > 73, Bruce
> > VE5BNC
> > ----- Original Message -----
> >
> > *From:* Joe <mailto:nss@... <mailto:nss%40mwt.net>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Cc:* Mark Conner <mailto:mconner1@...
> <mailto:mconner1%40gmail.com>>
> > *Sent:* Sunday, May 09, 2010 8:55 AM
> > *Subject:* Re: [GPSL] Re: gps ALT LIMITS
> >
> > Ok, now I'm confused where does this 16 bit thing come into play
> > and why?
> >
> > Reason saying is we have had the Garmen hocky puck exceed that
> > altitude 32,767 meters (107503 feet) several times, well in to
> > the teens Like 112,000 and 118,000 feet. This is frustrating he
> > he he,,
> >
> > Joe
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com <http://www.idle-tyme.com/>
> <http://www.idle-tyme.com/ <http://www.idle-tyme.com/>>
> >
> > On 5/9/2010 9:46 AM, Mark Conner wrote:
> >> Hi Joe,
> >>
> >> I think you'll find that few have direct experience with how
> >> well GPS units function at that altitude. As far as I know,
> >> there aren't any that have known limitations at 125,000 ft
> >> that aren't already present at lower altitudes above 60,000
> >> ft. The only possibility I can think of is software
> >> limitations that might prevent calculation or reporting of
> >> altitudes above 32,767 meters (that's the maximum value of a
> >> 16-bit signed integer).
> >>
> >> 73 de Mark N9XTN
> >>
> >>
> >
> >
> >
> >
> >

> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7033. Re: [GPSL] GPSL Schedule

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 21:32:13 UTC
From: Mike Manes
Topic: 451 Message: 7033

Yeah, I think there's enough interest to hold a conversation. Suggest putting it early in the agenda so it doesn't get bumped off the end like it did a few years ago.

73 de Mike W5VSI

On 5/11/2010 11:33, Zack Clobes wrote:
>
>
> So I'm hearing a lot of "national organization" chatter again... Do we
> need to schedule some formal time to discuss this at GPSL?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7034. Re: [GPSL] Sarantel GPS quad helix antennas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 21:42:23 UTC
From: Mike Manes
Topic: 6974 Message: 7034

Hi Zack,

We've encountered a coule of instances where two GPSs in close proximity QRMed each other. It's not at the 1.5 GHz RF freq, but at the 10 MHz IF, where signal levels are much higher. One incident happened between the autopilot GPS on a CU glider and our APRS beacon package - both within a foot of one another in the fuselage.

The other was when one of the tracker's handheld GPS was placed on the AE0SS-11 APRS beacon at the landing site before it was powered down - both readings were way off from one another, and both were wrong.

A word to the wise when flying redundant APRS beacons - keep 'em well separated on the payload string (at least 5 ft).

73 de Mike W5VSI

On 5/11/2010 12:33, Zack Clobes wrote:
>
>
> Yes, I know it's down in performance, but you would think that in a
> clear view of the sky, it wouldn't make *that *much difference. For
> what it's worth, the guy at Jim Gray's through that it would work...
>
> One other thing about that antenna, when I put it on my dash in the Jeep
> next to my Garmin Nuvi, the Nuvi would immediately lose its satellite
> lock when the Inventek would fire up. It's almost like the
> Inventek/antenna/amp were going into some sort of oscillation.
>
>
> All of those problems went away with the Sarantel.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Tue, May 11, 2010 at 1:28 PM, <wb8elk@...
> <mailto:wb8elk@...>> wrote:
>
> Zack....the Sarantel has 10 dB more gain as well so that might make
> the difference.
> - Bill WB8ELK
>
>
>

> -----Original Message-----
> From: Zack Clobes <zclobes@... <mailto:zclobes@...>>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Tue, May 11, 2010 1:15 pm
> Subject: Re: [GPSL] Sarantel GPS quad helix antennas
>
> I've had good luck with Jim D. Gray too.
>
> For the record, I tried one of their cheaper "Quadrifiler V GPS
> Antenna, +3V 14db", part number QV1 with the Inventek GPS, and I
> couldn't get a lock from it. It's possible that I had a solder
> bridge or something, but I unsoldered that one, and put the Sarantel
> in its place, and it's been working perfectly ever since.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org/>
>
>
> On Tue, May 11, 2010 at 1:07 PM, Meer, Stephen <smeer@...
> <mailto:smeer@...>> wrote:
>
> I have purchased a number of antennas and other GPS accessories
> from these guys over the last few years . They delivered as
> promised and the couple of time I spoke to them were helpful and
> knowledgeable. I have no other association with them other that
> being a past and infrequent customer.
> http://www.jdgastore.com/
> /s/SM2 K0SCC
> *From:* Meer, Stephen
> *Sent:* Monday, May 10, 2010 10:19 PM
> *To:* 'GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>'
> *Subject:* Re: [GPSL] Sarantel GPS quad helix antennas
> There is a distributor in TX that gladly sells the Sarantel
> antennas in small quantities. I purchased a couple last year for
> the B-LAN master module project. I don't recall the name off the
> top of my head but I will grab it when I get back to the office
> tomorrow evening.
>
> /s/SM2. K0SCC
>
> ***This message has been sent via the Intrado Wireless
> Information Network.***
> ---
> *From*: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *To*: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc*: wb8elk@... <mailto:wb8elk@...>
> *Sent*: Mon May 10 21:16:15 2010
> *Subject*: [GPSL] Sarantel GPS quad helix antennas
> Hey Bill,

>
> Did you have any luck getting small quantities of the Saratel
> quad helix
> GPS antenna? We're down to our last MicroPulse VIZ flex circuit
> quad, and
> when I last checked Sarantel, they weren't interested in non-OEM
> qty orders.
>
> 73 de Mike W5VSI
>
> On 5/9/2010 23:38, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
> >
> >
> > Hi Rodney,
> > I've flown the Inventek balloon mod module about 18 times in
> the past 2
> > years....works great when you use a Sarantel Helical antenna with
> > it....I should have the boards available with the chip and
> antenna near
> > the end of the month. I tested it out about 3 weeks ago on a
> UAH flight
> > with a Microtrak300 and it powered right up and started to
> report it's
> > location within a minute. It was a lot faster position lock
> than using a
> > Garmin 18.
> > - Bill WB8ELK
> >
> >
> >
> >
> > -----Original Message-----
> > From: Rodney Sparks <rodney@...
> <mailto:rodney%40rsparks.com>>
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > Sent: Sun, May 9, 2010 11:03 am
> > Subject: Re: [GPSL] Re: gps ALT LIMITS
> >
> > Have you guys seen this module that goes to 135k feet? Any
> experiences
> > with it?
> >
> > http://www.inventeksys.com/html/ism300f2-c5-v0004.html
> > <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>
> >
> > <http://www.inventeksys.com/html/ism300f2-c5-v0004.html>-Rodney
> >
> > On Sun, May 9, 2010 at 8:14 AM, Bruce Coates
> <bruce.coates@... <mailto:bruce.coates%40sasktel.net>
> > <mailto:bruce.coates@...

> <mailto:bruce.coates%40sasktel.net>>> wrote:
> >
> >
> >
> > Hi Joe
> > The fellow Garmin who did the presentation for us at GPSL 2009
> > mentioned that their code has an arbitrary limit built in
> based on
> > the routines they use to calculate their positions. In consumer
> > grade units, to make calculations faster to perform they use
> > approximations based on a GPS being used near the ground so they
> > become inaccurate at very high altitudes. If I recall correctly
> > their formulas start to become inaccurate when you're 2 or 3
> > thousand feet up so their consumer code is designed to stop
> working
> > before that happens. I suspect other manufacturers do similar
> things.
> > 73, Bruce
> > VE5BNC
> > ----- Original Message -----
> >
> > *From:* Joe <mailto:nss@... <mailto:nss%40mwt.net>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Cc:* Mark Conner <mailto:mconner1@...
> <mailto:mconner1%40gmail.com>>
> > *Sent:* Sunday, May 09, 2010 8:55 AM
> > *Subject:* Re: [GPSL] Re: gps ALT LIMITS
> >
> > Ok, now I'm confused where does this 16 bit thing come into play
> > and why?
> >
> > Reason saying is we have had the Garmen hocky puck exceed that
> > altitude 32,767 meters (107503 feet) several times, well in to
> > the teens Like 112,000 and 118,000 feet. This is frustrating he
> > he he,,
> >
> > Joe
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com <http://www.idle-tyme.com/>
> <http://www.idle-tyme.com/>
> >
> > On 5/9/2010 9:46 AM, Mark Conner wrote:
> >> Hi Joe,
> >>
> >> I think you'll find that few have direct experience with how
> >> well GPS units function at that altitude. As far as I know,

> >> there aren't any that have known limitations at 125,000 ft
> >> that aren't already present at lower altitudes above 60,000
> >> ft. The only possibility I can think of is software
> >> limitations that might prevent calculation or reporting of
> >> altitudes above 32,767 meters (that's the maximum value of a
> >> 16-bit signed integer).
> >>
> >> 73 de Mark N9XTN
> >>
> >>
> >
> >
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> >
> >
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>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7035. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 21:56:34 UTC
From: Mike Manes
Topic: 7013 Message: 7035

Some states, e.g. Colorado, have regulations that protect non-profit volunteer organizations and their principals from a degree of liability. But it's a state-by-state situation. So it might be worth a visit to your state's secy of state web site so see what protection may already be in place.

But, of course, nothing prevents a tort suit from being filed against you and your club, and lacking insurance coverage, you're stuck with the attorney's fees to defend against it - fingers crossed the court could rule the suit frivolous and order reimbursement of those fees. But it's still a major cash flow problem in real time.

In the meantime, it's a good idea to document all the steps you've taken to mitigate the risk to the public for every flight, since that'll form the basis for a sound legal defense. Conformance to FAR-101 is a good start, but not nearly enough.

73 de Mike W5VSI

On 5/11/2010 13:56, Zack Clobes wrote:
>
>
> I've been having discussions again with my State Farm agent, and
> basically he told me that if it was MY balloon that "lived" at MY house,
> then the home owners liability would extend to the balloon.
>
> I've already taken a slightly different route and put my balloons under
> my home-based LLC business. Now my home owners coverage has become more
> of a gray area, and he recommended that I purchase a general liability
> coverage for my LLC, which runs a little under $300 per year.
>
>
> As far as just creating an LLC to fly balloons under, my opinion is that
> by itself would be a foolish thing to do. If your balloon falls and
> cracks a windshield, then it doesn't really matter if the LLC cracked it
> or you did, someone is still going to have to pay to replace that glass.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
> On Tue, May 11, 2010 at 2:13 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
>

> On 5/11/2010 7:33 AM, L. Paul Verhage wrote:
>> We're coming up on the 25th anniversary of the first modern day
>> near space launch. I'd like to see us commenorate the event with
>> an ARHAB year, modelled after IGY. I tried to do something like
>> this several years ago and it didn't take off, but I'd like to try
>> again. Create Space is a publish on demand website. We could
>> create a book of all the launches and stories of 2012 as a way to
>> celebrate the year.
> This sounds cool!
>
>> I talked to the AMA last year about insurance. Let me try to
>> bring up this conversation again and involve the people I talked
>> with last year.
> Interested,
>
> Another thought is,,, that i haven't pushed deep into is forming a
> corporation for your persnal ballon group. like a LLC or similar to
> provide the liability buffer between the group and it's members? i
> haven't dug deep into any of these ideas LLC's of incorporation
> like a 5013c etc.. i have enough tax headaches as it is at the
> moment to create another entity to keep track of. anyone have any
> backgrounds on the levels of member ship liability protections from
> these method?
>
>> I agree with Mike that an ARHAB organization shouldn't be pushy or
>> regulating (we already have enough regulation with the FAA and
>> FCC). But one voice would be great.
> And I agree here also. Not pushy But the one voice as Mike stated
> with his level of being ignored when talking to the FAA.
>
> Mike knows about it, and the FAA is rally the way they are. Like
> you know if you had a payload that is coming down, and it might land
> someplace not really safe,, Like a busy downtown large city, a
> nuke plant,, or a major airport Like Chicago Ohare international.
> The payload is falling towards one of these examples.
>
> You know they have absolute no care if it is or not if you met all
> the guidelines of far part 101, but then of course that magic
> clause, that they can get you on on any flight at all.
>
> But the FAA will not allow you to remedy the situation. It's
> coming down towards Ohare! and it's gonna land there. but thats
> fine,,, wow huh. But say you see it's going to land there and you
> have the capability to steer the payload away from Ohare so it lands
> in a safe place. THIS IS ABSOLUTELY FORBIDDEN!!!!
>
> If you are able to steer it the FAA calls it a UAV now and if you
> fly a UAV that is not flight certified with all the same certs a
> 747 must pass. Imagine the trouble they could get you in.
>

> They see absolute no difference between a several ton Predator UAV
> and a under 1 pound UAV.. BOTH in the rules are UAV's and are not
> allowed in the NAS PERIOD!
>
> That's whats crazy! even a balloon that flys under the Exempt
> cause area. if it flies as normal. fine, of you can control where
> it goes it now a free balloon under exempt laws now it is now a
> UAV!! i fought with them for 2 years on this one. But I'm only one guy.
>
> We had better luck getting permission to launch both a super loki
> ballistic missile and a large rocket with a "P" size motor from a
> balloon launch platform right here in wisconsin was far easier
> getting permission that it is getting a steerable exempt payload
> permission. crazy.
>
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>>
>> Paul
>> On Mon, May 10, 2010 at 10:06 PM, Mike Manes <mrmanes@...
>> <mailto:mrmanes@...>> wrote:
>>
>> Hi Scott,
>>
>> Well, you did note the major benefits of a national ARHAB
>> organization,
>> and they're not minor issues for some of us.
>>
>> Liability insurance: EOSS submitted RFQs for liability
>> coverage for its
>> operations back in the salad days, and Lloyd's of London was
>> the only
>> underwriter to response - with a quote for absurd premiums. I
>> note that
>> one of our members has coverage under his homeowner's policy,
>> but clubs
>> like EOSS don't get such coverage. Even the ARRL policy won't
>> cover balloon
>> ops.
>>
>> Dealing with regulatory agencies: And by this I mean the FAA.
>> Now, EOSS
>> has developed a pretty sound working relationship with Denver
>> Center and
>> NW Region, but some of their demands, such as having all
>> flights back on
>> the deck by 0930 local time, are unnecessarily intrusive. And
>> comments
>> posted to the FAA folks in DC seem to be totally ignored; my

>> comments
>> on the UAS NPRM, observing that the proposed rules don't
>> mention FAR-101,
>> and further, can be read to conflict with allowances under
>> that long-
>> established regulation. However, comments submitted by the
>> national R/C
>> model aircraft were not only acknowledged but also
>> specifically addressed
>> in the next round on that NPRM. So how far do you think that
>> you, I or any
>> other ARHAB ham might get with a proposal to update FAR-101,
>> even to clarify
>> the text, to define "impact strength", eliminate obsolete
>> provisions like
>> trailing wire antennas over 50 ft long and radar reflectors?
>> Try getting
>> something like I-gated APRS beacons in to replace phoned-in
>> position
>> reports every 2 hours!
>>
>> Given that ARHABs been operating for over 20 years now without ANY
>> national organization, I'm skeptical that the act of creating
>> one would
>> automatically induce the rise of a competing one. Now, I
>> don't question
>> your fear that the leadership of this national organization
>> could get
>> real pushy - however, application of tried and proven
>> democratic principles
>> with some means of balancing powers to the organization's
>> charter could
>> go a long way towards averting something like the ARES vs.
>> RACES tempests
>> that crop up locally here and there (guessing that's your ref
>> point).
>>
>> That's my $0.02, and it's about all I can afford to spend on
>> it at this
>> point.
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 5/10/2010 10:50, Scott Miller wrote:
>> > I think my first question would be why this NEEDS to be a
>> national
>> > organization like NAR or USHPA or something. The primary
>> advantages I
>> > see there are liability insurance and a degree of

>> self-regulation that
>> > keeps the government from taking a more direct role in
>> regulation.
>> >
>> > Those aren't bad things, but is ARHAB to this point?
>> Personally I'd
>> > rather be part of an informal community (like this mailing
>> list) than a
>> > formal organization. Been a part of too many ham clubs and
>> things that
>> > get factionalized and politicized. As soon as you establish an
>> > organization, you'll wind up with some competing
>> organization with a
>> > different take on the hobby, and then you'll have hobbyists
>> outside all
>> > of the organizations resisting organization, or just being
>> indifferent
>> > to it, and winding up at odds with those inside the
>> organization(s).
>> > You get empire builders at the core of these organizations
>> who care less
>> > about getting stuff done and more about maintaining control
>> and exerting
>> > influence, and generally basking in their own importance.
>> >
>> > (Please note that this is NOT directed at anyone here, I've
>> never met
>> > any balloonatics I didn't like, but it's a general
>> observation on how
>> > these things often go.)
>> >
>> > My $0.02.
>> >
>> > Scott
>> > N1VG
>> >
>> > Joe wrote:
>> >>
>> >>
>> >> It seems like we all will be seriously starting to make a
>> national
>> >> organization for ARHAB activities. Similar to the Tripoli
>> and NAR groups
>> >> that the high power rocketry people have. This I think is a
>> good idea
>> >> especially with the sudden influx of all the news media lately
>> >> ballooning has had.
>> >>
>> >> I think a nicely set up on the groups once it is made web
>> page should be

>> >> a nice basic how to and what not to do page.
>> >>
>> >> I still see the EOSS gang still have the basic page up at
>> >>
>> http://www.eoss.org/pubs/faqloon.htm<http://www.eoss.org/pubs/faqloon.htm>
>> >> Man does that bring back memories! it's clearly out dated,
>> but also a
>> >> lot is still good strong advise.
>> >>
>> >> And their page that tries to explain the legal talk of FAR
>> Part 101 and
>> >> how it effects our flights at,
>> >> http://eoss.org/pubs/far_annotated.htm
>> >> <http://eoss.org/pubs/far_annotated.htm>
>> >> Is a major good start.
>> >>
>> >> I propose while we are talking about the formation of the
>> national
>> >> organization or group, how about all you out there that
>> have been doing
>> >> this for a long time join me in really making part 101 soo
>> clear and
>> >> understandable that anyone even with absolutely no
>> knowledge of anything
>> >> aviation regulation wise is it in perfect clear easy to
>> understand
>> >> language. with examples of payloads that would meet a
>> typical rule and
>> >> a payload the does not meet the rules. make it incredibly
>> simple.
>> >>
>> >> who is with me on doing this task as a group effort?
>> >>
>> >> If so I made a yahoo group for us to do this in as a group.
>> it's at.
>> >>
>> >> http://groups.yahoo.com/group/FarPart101/
>> >> <http://groups.yahoo.com/group/FarPart101/>
>> >>
>> >> Anyone?
>> >>
>> >> Joe WB9SBD
>> >> Near Space Sciences KB9KHO
>> >>
>> >>
>> >
>> >
>> >
>> > ------------------------------------
>> >

>> > Yahoo! Groups Links
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
>>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7036. Re: [GPSL] Re: [Balloonatics] Balloon Organization.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 23:52:48 UTC
From: L. Paul Verhage
Topic: 7013 Message: 7036
Attachments: 1 described; binary payloads are missing from this source WARC

I'd like to see the issue of a national organization be brought up again at GPSL. I'm looking for my email contacts about the AMA and possible insurance. Last year I invited them to attend GPSL and see what we do. My take was that we build and fly model satellites. AMA builds and flies model airplanes. There's some similarity, but perhaps not enough to interest AMA.

If a national ARHAB group were to form, they would have to collect some sort of dues for everyone's insurance. What kind of structure does the ARRL have? Would we be something like that?

Or perhaps we should model ourselves after AMSAT. We're close to satellites.

ARHAB-NA.

Paul

On Tue, May 11, 2010 at 3:41 PM, Joe <nss@...> wrote:

> it was just a thought,
>
> as far as the LLC goes.
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/11/2010 2:56 PM, Zack Clobes wrote:
>
> I've been having discussions again with my State Farm agent, and basically
> he told me that if it was MY balloon that "lived" at MY house, then the home
> owners liability would extend to the balloon.
>
> I've already taken a slightly different route and put my balloons under my
> home-based LLC business. Now my home owners coverage has become more of a
> gray area, and he recommended that I purchase a general liability coverage
> for my LLC, which runs a little under $300 per year.
>
>
> As far as just creating an LLC to fly balloons under, my opinion is that by
> itself would be a foolish thing to do. If your balloon falls and cracks a
> windshield, then it doesn't really matter if the LLC cracked it or you did,
> someone is still going to have to pay to replace that glass.

>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Tue, May 11, 2010 at 2:13 PM, Joe <nss@...> wrote:
>
>>
>> On 5/11/2010 7:33 AM, L. Paul Verhage wrote:
>>
>> We're coming up on the 25th anniversary of the first modern day near space
>> launch. I'd like to see us commenorate the event with an ARHAB year,
>> modelled after IGY. I tried to do something like this several years ago and
>> it didn't take off, but I'd like to try again. Create Space is a publish on
>> demand website. We could create a book of all the launches and stories of
>> 2012 as a way to celebrate the year.
>>
>> This sounds cool!
>>
>>
>> I talked to the AMA last year about insurance. Let me try to bring up
>> this conversation again and involve the people I talked with last year.
>>
>> Interested,
>>
>> Another thought is,,, that i haven't pushed deep into is forming a
>> corporation for your persnal ballon group. like a LLC or similar to provide
>> the liability buffer between the group and it's members? i haven't dug deep
>> into any of these ideas LLC's of incorporation like a 5013c etc.. i have
>> enough tax headaches as it is at the moment to create another entity to keep
>> track of. anyone have any backgrounds on the levels of member ship
>> liability protections from these method?
>>
>>
>> I agree with Mike that an ARHAB organization shouldn't be pushy or
>> regulating (we already have enough regulation with the FAA and FCC). But
>> one voice would be great.
>>
>> And I agree here also. Not pushy But the one voice as Mike stated with
>> his level of being ignored when talking to the FAA.
>>
>> Mike knows about it, and the FAA is rally the way they are. Like you know
>> if you had a payload that is coming down, and it might land someplace not
>> really safe,, Like a busy downtown large city, a nuke plant,, or a major
>> airport Like Chicago Ohare international. The payload is falling towards
>> one of these examples.
>>

>> You know they have absolute no care if it is or not if you met all the
>> guidelines of far part 101, but then of course that magic clause, that they
>> can get you on on any flight at all.
>>
>> But the FAA will not allow you to remedy the situation. It's coming down
>> towards Ohare! and it's gonna land there. but thats fine,,, wow huh. But
>> say you see it's going to land there and you have the capability to steer
>> the payload away from Ohare so it lands in a safe place. THIS IS ABSOLUTELY
>> FORBIDDEN!!!!
>>
>> If you are able to steer it the FAA calls it a UAV now and if you fly a
>> UAV that is not flight certified with all the same certs a 747 must pass.
>> Imagine the trouble they could get you in.
>>
>> They see absolute no difference between a several ton Predator UAV and a
>> under 1 pound UAV.. BOTH in the rules are UAV's and are not allowed in the
>> NAS PERIOD!
>>
>> That's whats crazy! even a balloon that flys under the Exempt cause
>> area. if it flies as normal. fine, of you can control where it goes it now
>> a free balloon under exempt laws now it is now a UAV!! i fought with them
>> for 2 years on this one. But I'm only one guy.
>>
>> We had better luck getting permission to launch both a super loki
>> ballistic missile and a large rocket with a "P" size motor from a balloon
>> launch platform right here in wisconsin was far easier getting permission
>> that it is getting a steerable exempt payload permission. crazy.
>>
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>>
>>
>> Paul
>> On Mon, May 10, 2010 at 10:06 PM, Mike Manes <mrmanes@...> wrote:
>>
>>> Hi Scott,
>>>
>>> Well, you did note the major benefits of a national ARHAB organization,
>>> and they're not minor issues for some of us.
>>>
>>> Liability insurance: EOSS submitted RFQs for liability coverage for its
>>> operations back in the salad days, and Lloyd's of London was the only
>>> underwriter to response - with a quote for absurd premiums. I note that
>>> one of our members has coverage under his homeowner's policy, but clubs
>>> like EOSS don't get such coverage. Even the ARRL policy won't cover
>>> balloon
>>> ops.
>>>

>>> Dealing with regulatory agencies: And by this I mean the FAA. Now, EOSS
>>> has developed a pretty sound working relationship with Denver Center and
>>> NW Region, but some of their demands, such as having all flights back on
>>> the deck by 0930 local time, are unnecessarily intrusive. And comments
>>> posted to the FAA folks in DC seem to be totally ignored; my comments
>>> on the UAS NPRM, observing that the proposed rules don't mention FAR-101,
>>> and further, can be read to conflict with allowances under that long-
>>> established regulation. However, comments submitted by the national R/C
>>> model aircraft were not only acknowledged but also specifically addressed
>>> in the next round on that NPRM. So how far do you think that you, I or
>>> any
>>> other ARHAB ham might get with a proposal to update FAR-101, even to
>>> clarify
>>> the text, to define "impact strength", eliminate obsolete provisions like
>>> trailing wire antennas over 50 ft long and radar reflectors? Try getting
>>> something like I-gated APRS beacons in to replace phoned-in position
>>> reports every 2 hours!
>>>
>>> Given that ARHABs been operating for over 20 years now without ANY
>>> national organization, I'm skeptical that the act of creating one would
>>> automatically induce the rise of a competing one. Now, I don't question
>>> your fear that the leadership of this national organization could get
>>> real pushy - however, application of tried and proven democratic
>>> principles
>>> with some means of balancing powers to the organization's charter could
>>> go a long way towards averting something like the ARES vs. RACES tempests
>>> that crop up locally here and there (guessing that's your ref point).
>>>
>>> That's my $0.02, and it's about all I can afford to spend on it at this
>>> point.
>>>
>>> 73 de Mike W5VSI
>>> CTO EOSS
>>>
>>> On 5/10/2010 10:50, Scott Miller wrote:
>>> > I think my first question would be why this NEEDS to be a national
>>> > organization like NAR or USHPA or something. The primary advantages I
>>> > see there are liability insurance and a degree of self-regulation that
>>> > keeps the government from taking a more direct role in regulation.
>>> >
>>> > Those aren't bad things, but is ARHAB to this point? Personally I'd
>>> > rather be part of an informal community (like this mailing list) than a
>>> > formal organization. Been a part of too many ham clubs and things that
>>> > get factionalized and politicized. As soon as you establish an
>>> > organization, you'll wind up with some competing organization with a
>>> > different take on the hobby, and then you'll have hobbyists outside all
>>> > of the organizations resisting organization, or just being indifferent
>>> > to it, and winding up at odds with those inside the organization(s).
>>> > You get empire builders at the core of these organizations who care
>>> less

>>> > about getting stuff done and more about maintaining control and
>>> exerting
>>> > influence, and generally basking in their own importance.
>>> >
>>> > (Please note that this is NOT directed at anyone here, I've never met
>>> > any balloonatics I didn't like, but it's a general observation on how
>>> > these things often go.)
>>> >
>>> > My $0.02.
>>> >
>>> > Scott
>>> > N1VG
>>> >
>>> > Joe wrote:
>>> >>
>>> >>
>>> >> It seems like we all will be seriously starting to make a national
>>> >> organization for ARHAB activities. Similar to the Tripoli and NAR
>>> groups
>>> >> that the high power rocketry people have. This I think is a good idea
>>> >> especially with the sudden influx of all the news media lately
>>> >> ballooning has had.
>>> >>
>>> >> I think a nicely set up on the groups once it is made web page should
>>> be
>>> >> a nice basic how to and what not to do page.
>>> >>
>>> >> I still see the EOSS gang still have the basic page up at
>>> >> http://www.eoss.org/pubs/faqloon.htm<
>>> http://www.eoss.org/pubs/faqloon.htm>
>>> >> Man does that bring back memories! it's clearly out dated, but also a
>>> >> lot is still good strong advise.
>>> >>
>>> >> And their page that tries to explain the legal talk of FAR Part 101
>>> and
>>> >> how it effects our flights at,
>>> >> http://eoss.org/pubs/far_annotated.htm
>>> >> <http://eoss.org/pubs/far_annotated.htm>
>>> >> Is a major good start.
>>> >>
>>> >> I propose while we are talking about the formation of the national
>>> >> organization or group, how about all you out there that have been
>>> doing
>>> >> this for a long time join me in really making part 101 soo clear and
>>> >> understandable that anyone even with absolutely no knowledge of
>>> anything
>>> >> aviation regulation wise is it in perfect clear easy to understand
>>> >> language. with examples of payloads that would meet a typical rule and
>>> >> a payload the does not meet the rules. make it incredibly simple.
>>> >>

>>> >> who is with me on doing this task as a group effort?
>>> >>
>>> >> If so I made a yahoo group for us to do this in as a group. it's at.
>>> >>
>>> >> http://groups.yahoo.com/group/FarPart101/
>>> >> <http://groups.yahoo.com/group/FarPart101/>
>>> >>
>>> >> Anyone?
>>> >>
>>> >> Joe WB9SBD
>>> >> Near Space Sciences KB9KHO
>>> >>
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>>> >
>>> >
>>> >
>>> > ------------------------------------
>>> >
>>> > Yahoo! Groups Links
>>> >
>>> >
>>> >
>>> >
>>>
>>> --
>>> Mike Manes mrmanes@... Tel: 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
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>>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>

--
Onwards and Upwards,
Paul

7037. Welcome Packets

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-11 23:56:53 UTC
From: L. Paul Verhage
Topic: 7037 Message: 7037

I've arranged for N&V to send magazines for welcome packets. Can someone else arrange for other magazines?

--
Onwards and Upwards,
Paul

7038. Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 00:45:57 UTC
From: lpcoates
Topic: 7038 Message: 7038

Hi

The Sarantel thread got me thinking about this. We often see electronics in payload interfere with the gps in the same playload. Most recently it was a "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.

Thanks

Bruce, VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

7039. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 00:49:05 UTC
From: Zack Clobes
Topic: 7038 Message: 7039

Physical separation is the simplest, most reliable cure for the said
symptoms...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, May 11, 2010 at 7:45 PM, lpcoates <bruce.coates@...> wrote:

>
>
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
>
> payload interfere with the gps in the same playload. Most recently it was a
>
> "chewing gum" "spy" video camera. The camera is just about perfect for a
> balloon but it completely stopped the GPS from working when it was within a
> foot or two of the antenna. I've heard of and experienced ATV transmitters
> on 439.25 causing problems with GPSs. Has anyone else had success in finding
> and mitigating interference from nearby electronics? In particular, what
> frequencies have people found to be common causes. What did you do to
> eliminate or reduce the problem. What about different antenna types, patch,
> quadrifilar, amplified, passive, etc.
>
> Thanks
>
> Bruce, VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>
>
>

7040. Entertainment for spouses question

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 00:56:21 UTC
From: Zack Clobes
Topic: 7040 Message: 7040

There's a new(er) cooking store in Hutch that offers cooking classes to small groups. It was suggested that they could have a class for some of the wives on Friday afternoon.

I'm not sure how they price it, but most of the classes seem to be in the $20-$35 range. If this is something that would interest those who are not attending the symposium, I'd be happy to try to coordinate this.

I'm not positive, but I think we'd have to guaranty at least 5-8 participants.

Here is a link to the store and some of their classes that they're currently offering, to give you an idea what's available.

http://www.apronstringsstore.com/special_events.php

If anyone would be interested in this, please let me know ASAP so I can try to coordinate something.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7041. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 01:24:26 UTC
From: HarryM
Topic: 7038 Message: 7041

This is not related to flight interference, but related to my T&R mobile installation. I have an old trusty upgraded 12 chan. Garmin GPS 20/20 TracPak GPS that I have used for 10 years. It has never failed me until I installed a new Farenheit brand 3x4 video display radio with bluetooth, SD card reader & iPod capable. The 20/20 normally sits on the center of the dash of my Jeep Cherokee against the windshield right over the radio. Since installing the new radio I had to move the 20/20 at least 6" to the left or right or it just would not get a lock. I might try to lay a flat piece of metal under the GPS and see if it will help.

7042. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 03:09:41 UTC
From: Mark Conner
Topic: 7038 Message: 7042

I've had digital cameras affect my GPS-18 - seems to desense it by 20 dB or so, and made it lose lock on one flight. My "mitigation" was to go back to the GPS-35 power hog (~130 mA at 5V), which doesn't seem to be affected. Maybe when you eat that many electrons, stray RF doesn't bother you. :)

73 de Mark N9XTN

On Tue, May 11, 2010 at 19:45, lpcoates <bruce.coates@sasktel.net> wrote:
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
> payload interfere with the gps in the same playload. Most recently it was a
> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.
>
> Thanks
>
> Bruce, VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>
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> Yahoo! Groups Links
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7043. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 03:25:17 UTC
From: Joe
Topic: 7038 Message: 7043
Attachments: 1 described; binary payloads are missing from this source WARC

which cameras?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/11/2010 10:09 PM, Mark Conner wrote:
> I've had digital cameras affect my GPS-18 - seems to desense it by 20
> dB or so, and made it lose lock on one flight. My "mitigation" was to
> go back to the GPS-35 power hog (~130 mA at 5V), which doesn't seem to
> be affected. Maybe when you eat that many electrons, stray RF doesn't
> bother you. :)
>
> 73 de Mark N9XTN
>
> On Tue, May 11, 2010 at 19:45, lpcoates<bruce.coates@...> wrote:
>
>> Hi
>>
>> The Sarantel thread got me thinking about this. We often see electronics in
>> payload interfere with the gps in the same playload. Most recently it was a
>> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it
completely stopped the GPS from working when it was within a foot or two of the antenna.
I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has
anyone else had success in finding and mitigating interference from nearby electronics? In
particular, what frequencies have people found to be common causes. What did you do to
eliminate or reduce the problem. What about different antenna types, patch, quadrifilar,
amplified, passive, etc.
>>
>> Thanks
>>
>> Bruce, VE5BNC
>> SABRE - http://ve5aa.dyndns.org/balloon
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7044. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 03:28:36 UTC
From: Mark Conner
Topic: 7038 Message: 7044
Attachments: 1 described; binary payloads are missing from this source WARC

The Concord 4060 was the one that gave me trouble. I now use a Canon A560
but have not tested it against the GPS-18 for desense (it rides on the
GPS-35 payload).

73 de Mark N9XTN

On Tue, May 11, 2010 at 22:25, Joe <nss@mwt.net> wrote:

> which cameras?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/11/2010 10:09 PM, Mark Conner wrote:
>
> I've had digital cameras affect my GPS-18 - seems to desense it by 20
> dB or so, and made it lose lock on one flight. My "mitigation" was to
> go back to the GPS-35 power hog (~130 mA at 5V), which doesn't seem to
> be affected. Maybe when you eat that many electrons, stray RF doesn't
> bother you. :)
>
> 73 de Mark N9XTN
>
> On Tue, May 11, 2010 at 19:45, lpcoates <bruce.coates@...> <bruce.coates@...> wrote:
>
>
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
> payload interfere with the gps in the same playload. Most recently it was a
> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it
completely stopped the GPS from working when it was within a foot or two of the antenna.
I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has
anyone else had success in finding and mitigating interference from nearby electronics? In
particular, what frequencies have people found to be common causes. What did you do to
eliminate or reduce the problem. What about different antenna types, patch, quadrifilar,
amplified, passive, etc.
>
> Thanks
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> Bruce, VE5BNC
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> Yahoo! Groups Links
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7045. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 03:49:06 UTC
From: Bruce Coates
Topic: 7038 Message: 7045

Hi Zack

Unfortunately that's my biggest obstacle. My camera module uses the GPS signal to coordinate turning things on and off. Yes, I could just use a simple timer to do it, but where's the fun in that? ;-)

Bruce

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Tuesday, May 11, 2010 6:49 PM
Subject: Re: [GPSL] Electronics interfering with GPS

Physical separation is the simplest, most reliable cure for the said symptoms...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, May 11, 2010 at 7:45 PM, lpcoates <bruce.coates@...> wrote:

Hi

The Sarantel thread got me thinking about this. We often see electronics in payload interfere with the gps in the same playload. Most recently it was a "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.

Thanks

Bruce, VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

7046. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 07:38:08 UTC
From: wb8elk@aol.com
Topic: 7038 Message: 7046

Hi Bruce,

I assume you're talking about this particular "chewing gum" sized camcorder distributed by Hobbypartz and also MCM Electronics. I've flown it several times on our last few flights....taped to the outside of my payload with absolutely no insulation besides the duct tape. It actually did a pretty decent job. Considering it was exposed to the elements it still worked up to about 28,000 feet and took some nice video (although not as high resolution of a Flip Ultra but it is half the price and 1/10 the weight)...it is amazingly lightweight (18 grams) and the sound it recorded was good. I got some nice video from it. I plan to power it from the external USB port instead of relying on it's small internal battery, add some insulation and it should work for 2 hours or more I would think.

http://www.hobbypartz.com/smvicarewfr2.html

I did notice it does produce EMI noise so I kept it some distance below the GPS antenna.

- Bill WB8ELK

-----Original Message-----
From: lpcoates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Tue, May 11, 2010 7:45 pm
Subject: [GPSL] Electronics interfering with GPS

Hi

The Sarantel thread got me thinking about this. We often see electronics in payload interfere with the gps in the same playload. Most recently it was a "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.

Thanks

Bruce, VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

7047. Re: Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 09:51:08 UTC
From: robert.harrison@rocketmail.com
Topic: 7038 Message: 7047

All,

We have had some success removing RFI by placing the camera in an enclosure covered with tin foil and grounding it.

You can test this with GPS devices that give signal readouts.

Robert Harrison

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Zack
>
> Unfortunately that's my biggest obstacle. My camera module uses the GPS signal to coordinate turning things on and off. Yes, I could just use a simple timer to do it, but where's the fun in that? ;-)
>
> Bruce
>
>
> ----- Original Message -----
> From: Zack Clobes
> To: GPSL@yahoogroups.com
> Sent: Tuesday, May 11, 2010 6:49 PM
> Subject: Re: [GPSL] Electronics interfering with GPS
>
>
>
> Physical separation is the simplest, most reliable cure for the said symptoms...
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>
> On Tue, May 11, 2010 at 7:45 PM, lpcoates <bruce.coates@...> wrote:
>
>
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
> payload interfere with the gps in the same playload. Most recently it was a
> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna.

I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.
>
> Thanks
>
> Bruce, VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>

7048. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 12:22:40 UTC
From: Bruce Coates
Topic: 7038 Message: 7048

Hi Bill

It actually the ones being flogged on eBay for well under $20. I'm not sure if they're identical or just a knock-off. They look the same as the one from hobbypartz. I'm also using an "MD80" model that's much the same with different packaging. The last one took 90 minutes of video before the battery was exhausted. With mine, applying USB power puts it into mass storage mode where it can't record video, but it does recharge the battery and also generates enough heat to keep things from freezing.

Bruce

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Wednesday, May 12, 2010 1:38 AM
Subject: Re: [GPSL] Electronics interfering with GPS

Hi Bruce,

I assume you're talking about this particular "chewing gum" sized camcorder distributed by Hobbypartz and also MCM Electronics. I've flown it several times on our last few flights....taped to the outside of my payload with absolutely no insulation besides the duct tape. It actually did a pretty decent job. Considering it was exposed to the elements it still worked up to about 28,000 feet and took some nice video (although not as high resolution of a Flip Ultra but it is half the price and 1/10 the weight)...it is amazingly lightweight (18 grams) and the sound it recorded was good. I got some nice video from it. I plan to power it from the external USB port instead of relying on it's small internal battery, add some insulation and it should work for 2 hours or more I would think.

http://www.hobbypartz.com/smvicarewfr2.html

I did notice it does produce EMI noise so I kept it some distance below the GPS antenna.

- Bill WB8ELK

-----Original Message-----
From: lpcoates <bruce.coates@...>
To: GPSL@yahoogroups.com
Sent: Tue, May 11, 2010 7:45 pm
Subject: [GPSL] Electronics interfering with GPS

Hi

The Sarantel thread got me thinking about this. We often see electronics in payload interfere with the gps in the same playload. Most recently it was a "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has

anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.

Thanks

Bruce, VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

7049. Re: Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 15:10:21 UTC
From: nordlie101
Topic: 7038 Message: 7049

We've run into problems with GPS receivers jamming each
other. On one flight, trying to run a Garmin eTrex and a
Motorola Oncore, if the units were within 6" of each other,
the eTrex wouldn't get a position fix.

In a terrestrial
application (NTP timeservers), I've had a Garmin GPS-18 LVC
and a Deluo serial GPS fight when mounted on the same steel plate,
again less than 6" apart. One receiver got fixes, but frequently
lost them, the other never got a fix. I moved them apart by
6 feet and now both run flawlessly.

--- In GPSL@yahoogroups.com, "lpcoates" <bruce.coates@...> wrote:
>
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
> payload interfere with the gps in the same playload. Most recently it was a
> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it
completely stopped the GPS from working when it was within a foot or two of the antenna.
I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has
anyone else had success in finding and mitigating interference from nearby electronics? In
particular, what frequencies have people found to be common causes. What did you do to
eliminate or reduce the problem. What about different antenna types, patch, quadrifilar,
amplified, passive, etc.
>
> Thanks
>
> Bruce, VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>

7050. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 16:54:55 UTC
From: Zack Clobes
Topic: 6446 Message: 7050

We're trying to squeeze two more sessions into the day. Would it be
possible to condense your presentation down to 45 minutes?

Zack

On Mon, Feb 15, 2010 at 5:21 PM, <mw@...> wrote:

>
>
>
> Topic: "ARBONET: Progress of Experiments in Communications and Control"
>
> Description: The two cowboys from North Texas share the status and
> history of the positive pressure control system for balloon altitude
> optimization and controlled return, including various payload
> electronics such as customized cross-band repeater, linear
> transponder, slow scan TV, mechanical implementations, results and
> data collected.
>
> Time: Up to 1 hour depending on who is still awake (including the two
> presenters).
>
> Preferred Time: No preferred time.
>
> Resources: Table / Projector / Laptop / Coffee
>
> Michael Willett: 817-776-5420 office / 214-578-2400 cell
> Doug Loughmiller: 214-455-7071
>
>
> Quoting Zack Clobes <zclobes@... <zclobes%40gmail.com>>:
>
> > I'm now taking volunteers and requests for sessions at the 2010 GPSL in
> > Hutchinson. If you are interested in presenting, please include the
> > following in your response:
> >
> > 1. Topic (5 words or less)
> >
> > 2. Short description of your presentation (2 sentences or more)
> >
> > 3. How much time do you expect the presentation and related questions to
> > take?
> >
> > 4. Do you have a preference of when you present?
> >
> > 5. What resources will you need for your program (projector, computer,

> DVD,
> > tables, etc)?
> >
> > 6. A cell phone number for the presenter for questions or coordination.
> >
> >
> >
> > If you are not interested in presenting, but would like to see someone
> > else speak on a specific topic, I'd be interested in hearing your
> > suggestions.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> >
>
>
>

7051. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 17:00:45 UTC
From: L. Paul Verhage
Topic: 6446 Message: 7051

I'll make sure to keepo mine to 45 minutes.

Paul

On Wed, May 12, 2010 at 11:54 AM, Zack Clobes <zclobes@...> wrote:

>
>
> We're trying to squeeze two more sessions into the day. Would it be
> possible to condense your presentation down to 45 minutes?
>
> Zack
>
> On Mon, Feb 15, 2010 at 5:21 PM, <mw@...> wrote:
>
>>
>>
>>
>> Topic: "ARBONET: Progress of Experiments in Communications and Control"
>>
>> Description: The two cowboys from North Texas share the status and
>> history of the positive pressure control system for balloon altitude
>> optimization and controlled return, including various payload
>> electronics such as customized cross-band repeater, linear
>> transponder, slow scan TV, mechanical implementations, results and
>> data collected.
>>
>> Time: Up to 1 hour depending on who is still awake (including the two
>> presenters).
>>
>> Preferred Time: No preferred time.
>>
>> Resources: Table / Projector / Laptop / Coffee
>>
>> Michael Willett: 817-776-5420 office / 214-578-2400 cell
>> Doug Loughmiller: 214-455-7071
>>
>>
>> Quoting Zack Clobes <zclobes@... <zclobes%40gmail.com>>:
>>
>> > I'm now taking volunteers and requests for sessions at the 2010 GPSL in
>> > Hutchinson. If you are interested in presenting, please include the
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>> DVD,
>> > tables, etc)?
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>> > 6. A cell phone number for the presenter for questions or coordination.
>> >
>> >
>> >
>> > If you are not interested in presenting, but would like to see someone
>> > else speak on a specific topic, I'd be interested in hearing your
>> > suggestions.
>> >
>> > Zack Clobes, W0ZC
>> > Project: Traveler
>> >
>>
>>
>
>
>

--
Onwards and Upwards,
Paul

7052. Re: Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-12 17:15:27 UTC
From: zclobes@gmail.com
Topic: 6446 Message: 7052

Sorry, stupid Gmail was trying to be smarter than I am. This was intended
for Michael Willett and/or Doug Loughmiller at ARBONET.

Zack

On May 12, 2010 11:54am, Zack Clobes <zclobes@gmail.com> wrote:
> We're trying to squeeze two more sessions into the day. Would it be
> possible to condense your presentation down to 45 minutes?

> Zack

> On Mon, Feb 15, 2010 at 5:21 PM, mw@omsrc.com> wrote:

> Topic: "ARBONET: Progress of Experiments in Communications and Control"

> Description: The two cowboys from North Texas share the status and

> history of the positive pressure control system for balloon altitude

> optimization and controlled return, including various payload

> electronics such as customized cross-band repeater, linear

> transponder, slow scan TV, mechanical implementations, results and

> data collected.

> Time: Up to 1 hour depending on who is still awake (including the two

> presenters).

> Preferred Time: No preferred time.

> Resources: Table / Projector / Laptop / Coffee

> Michael Willett: 817-776-5420 office / 214-578-2400 cell

> Doug Loughmiller: 214-455-7071

> Quoting Zack Clobes zclobes@gmail.com>:

> > I'm now taking volunteers and requests for sessions at the 2010 GPSL in

> > Hutchinson. If you are interested in presenting, please include the

> > following in your response:

> >

> > 1. Topic (5 words or less)

> >

> > 2. Short description of your presentation (2 sentences or more)

> >

> > 3. How much time do you expect the presentation and related questions to

> > take?

> >

> > 4. Do you have a preference of when you present?

> >

> > 5. What resources will you need for your program (projector, computer,
> DVD,

> > tables, etc)?

> >

> > 6. A cell phone number for the presenter for questions or coordination.

> >

> >

> >

> > If you are not interested in presenting, but would like to see someone

> > else speak on a specific topic, I'd be interested in hearing your

> > suggestions.

> >

> > Zack Clobes, W0ZC

> > Project: Traveler

> >

>

7053. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 01:15:13 UTC
From: Mike Manes
Topic: 7038 Message: 7053

Hi Bruce,

EOSS used to encounter problems getting decent 3D lock with our early Magellan GPS engine when it was co-located in the same payload enclosure as our 70 cm AM ATV xmtr. This was completely resolved by exporting the ATV to a separate payload located at least 3m down the payload string from the GPS/APRS payload.

However, this also prevented us from adding a GPS-based data overlay on the ATV video until Steve K0SCC developed our "Balloon-LAN" (B-LAN) ZigBee link from a separate GPS payload to a ZigBee receiver in the ATV package. That scheme has worked nicely.

We've also encountered some RFI problems with early-generations of the TinyTrack APRS beacon generators - we tracked this down to xmit RF getting into the low-level signal traces on the TT PWB causing very distorted packet audio, and even TT processor upsets. This was corrected by replacing the 1/4 wave 2m antenna mounted on the package with a flexible J-pole fed with about 1m of coax hanging below the payload.

73 de Mike W5VSI
CTO EOSS

On 5/11/2010 18:45, lpcoates wrote:
> Hi
>
> The Sarantel thread got me thinking about this. We often see electronics in
> payload interfere with the gps in the same playload. Most recently it was a
> "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.
>
> Thanks
>
> Bruce, VE5BNC
> SABRE - http://ve5aa.dyndns.org/balloon
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7054. Re: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 01:49:26 UTC
From: Bruce Coates
Topic: 7038 Message: 7054

Wow. What a bunch of great suggestions. Thanks and keep them coming.

Bruce

----- Original Message -----
From: lpcoates
To: GPSL@yahoogroups.com
Sent: Tuesday, May 11, 2010 6:45 PM
Subject: [GPSL] Electronics interfering with GPS

Hi

The Sarantel thread got me thinking about this. We often see electronics in payload interfere with the gps in the same playload. Most recently it was a "chewing gum" "spy" video camera. The camera is just about perfect for a balloon but it completely stopped the GPS from working when it was within a foot or two of the antenna. I've heard of and experienced ATV transmitters on 439.25 causing problems with GPSs. Has anyone else had success in finding and mitigating interference from nearby electronics? In particular, what frequencies have people found to be common causes. What did you do to eliminate or reduce the problem. What about different antenna types, patch, quadrifilar, amplified, passive, etc.

Thanks

Bruce, VE5BNC
SABRE - http://ve5aa.dyndns.org/balloon

7055. RE: [GPSL] Electronics interfering with GPS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 04:48:34 UTC
From: Meer, Stephen
Topic: 7038 Message: 7055

One beauty of the EOSS B-LAN model is that we can fly one payload that houses a GPS and B-LAN transmitter (ZigBee) and that we can configure the system to "broadcast" the NMEA-0183 sentences such that as many modules and necessary on the flight string can receive the GPS info for the price (paid in size, power and compatibility) of an integrated ZigBee enabled device.

We also have a ground based B-LAN flight line module that is used to monitor B-LAN (and in this case GPS) operation prior to launch to make sure that all is good and GPS is locked prior to launch. Somewhat by accident using this we learned that the Maxstream ZigBee modules (one high power and one low power both with integral wire stub antenna) will communicate approximately 15Kft evenly with poor antenna geometry.

As an aside our B-LAN wireless data buss can also be configured to operate in a polling master model to allow other data to traverse the flight string between modules as needed. Still a lot of work to be done here to further enhance this and build/publish a simple interface toolkit for our "customers" to integrate against. A future phase of the system design is also envisioned to extend high speed air to ground data as well (not ZigBee based) but that area has not materialized in the real world yet. When we do that my intention is to use LabView as the ground station environment to allow us to easily configure monitoring and logging on a per flight/experiment basis.

/s/SM2 K0SCC

7056. Re: [GPSL] GPSL Call for Presenters

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 14:14:31 UTC
From: Michael Willett
Topic: 6446 Message: 7056

Sure, not a problem.

--Michael K5NOT

On 5/12/2010 11:54 AM, Zack Clobes wrote:
>
> We're trying to squeeze two more sessions into the day. Would it be
> possible to condense your presentation down to 45 minutes?
>
> Zack
>
> On Mon, Feb 15, 2010 at 5:21 PM, <mw@... <mailto:mw@...>>
> wrote:
>
>
> Topic: "ARBONET: Progress of Experiments in Communications and
> Control"
>
> Description: The two cowboys from North Texas share the status and
> history of the positive pressure control system for balloon altitude
> optimization and controlled return, including various payload
> electronics such as customized cross-band repeater, linear
> transponder, slow scan TV, mechanical implementations, results and
> data collected.
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> Time: Up to 1 hour depending on who is still awake (including the two
> presenters).
>
> Preferred Time: No preferred time.
>
> Resources: Table / Projector / Laptop / Coffee
>
> Michael Willett: 817-776-5420 office / 214-578-2400 cell
> Doug Loughmiller: 214-455-7071
>
>
>
> Quoting Zack Clobes <zclobes@... <mailto:zclobes%40gmail.com>>:
>
> > I'm now taking volunteers and requests for sessions at the 2010
> GPSL in
> > Hutchinson. If you are interested in presenting, please include the
> > following in your response:
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> > take?
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> > 4. Do you have a preference of when you present?
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> > 5. What resources will you need for your program (projector,
> computer, DVD,
> > tables, etc)?
> >
> > 6. A cell phone number for the presenter for questions or
> coordination.
> >
> >
> >
> > If you are not interested in presenting, but would like to see
> someone
> > else speak on a specific topic, I'd be interested in hearing your
> > suggestions.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> >
>
>
>

7057. Festo Jellyfish

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 14:51:13 UTC
From: L. Paul Verhage
Topic: 7057 Message: 7057

This is an amazing indoor helium balloon.

I want one.

http://www.youtube.com/watch?v=F_citFkSNtk

--
Onwards and Upwards,
Paul

7058. Re: [GPSL] Festo Jellyfish

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-13 15:24:03 UTC
From: Keith Kaiser
Topic: 7057 Message: 7058

Nothing less than awesome!

On May 13, 2010, at 9:51 AM, L. Paul Verhage wrote:

>
> This is an amazing indoor helium balloon.
>
> I want one.
>
> http://www.youtube.com/watch?v=F_citFkSNtk
>
> --
> Onwards and Upwards,
> Paul
>
>

7059. Possible streaming video of the BalloonSat forum at the Dayton Hamvention today

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-14 14:39:23 UTC
From: wb8elk@aol.com
Topic: 7059 Message: 7059

Depending on cell coverage inside the arena....there will be two streams possibly sending out the BalloonSat Forum at 12:15 pm to 2:15 pm today EDT (Friday May 14).

www.batc.tv

Click on "Members Streams"

Then try the stream called " KE6BXT" and hit "watch stream"

also "WB9KMO" will try as well under that same list.

- Bill WB8ELK

7060. Balloon flight Saturday May 15th at 11am from Dayton Hamvention

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-14 15:21:02 UTC
From: wb8elk@aol.com
Topic: 7060 Message: 7060

Balloon will be launched from the Dayton Hamvention at 11:00 am EDT Saturday May 15th.

APRS on 144.39: WB8ELK-10
APRS on 144.34: N0OY-11

DominoEX on 146.565: N9QGS (it's either EX16 or EX22, can't remember which speed I set Ron's up for).

- Bill WB8ELK

Streaming video possible of the launch: www.batc.tv click on Members Streams...then select either KE6BXT or WB9KMO.

7061. Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 01:46:17 UTC
From: Zack Clobes
Topic: 7061 Message: 7061

It looks like SparkFun is now carrying a Sarantel 18db active helix antenna now for $23.

http://www.sparkfun.com/commerce/product_info.php?products_id=9871

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7062. Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 15:49:01 UTC
From: wb8elk@aol.com
Topic: 7062 Message: 7062

Perfect conditions....launch occured at 1525 UTC from the flea market at the Dayton Hamvention.

Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6

DominoEX22 on 146.565: N9QGS

Landing zone is just southwest of the outer belt of Columbus, Ohio.

- Bill WB8ELK

7063. Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 15:56:15 UTC
From: Joe
Topic: 7062 Message: 7063
Attachments: 1 described; binary payloads are missing from this source WARC

Good Luck Bill.

We ust went swimming. landed like 500 feet off shore!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 10:49 AM, wb8elk@... wrote:
>
>
>
>
> Perfect conditions....launch occured at 1525 UTC from the flea market
> at the Dayton Hamvention.
> Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
> DominoEX22 on 146.565: N9QGS
> Landing zone is just southwest of the outer belt of Columbus, Ohio.
> - Bill WB8ELK
>
>
>

7064. Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 16:35:34 UTC
From: Mike Manes
Topic: 7062 Message: 7064

Hi Joe,

Hope you had light, watertight payloads! The Puerto Rico team has
used trash bags and duct tape on theirs and has mastered maritime
recoveries.

GL es 73 de Mike W5VSI, EOSS

On 5/15/2010 09:56, Joe wrote:
> Good Luck Bill.
>
> We ust went swimming. landed like 500 feet off shore!
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/15/2010 10:49 AM, wb8elk@... wrote:
>>
>>
>>
>>
>> Perfect conditions....launch occured at 1525 UTC from the flea market
>> at the Dayton Hamvention.
>> Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
>> DominoEX22 on 146.565: N9QGS
>> Landing zone is just southwest of the outer belt of Columbus, Ohio.
>> - Bill WB8ELK
>>
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7065. Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 16:39:55 UTC
From: Joe
Topic: 7062 Message: 7065
Attachments: 1 described; binary payloads are missing from this source WARC

This is a "Ala" ELK" bubble wrap system..

hard to say the gps was made with a styrofoam blovk to suport it. and
the electronice a microtrac 300 with 8 AA cells all wrapped in bubble
wrap. neutral buyoant? hard to say.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 11:35 AM, Mike Manes wrote:
> Hi Joe,
>
> Hope you had light, watertight payloads! The Puerto Rico team has
> used trash bags and duct tape on theirs and has mastered maritime
> recoveries.
>
> GL es 73 de Mike W5VSI, EOSS
>
> On 5/15/2010 09:56, Joe wrote:
>> Good Luck Bill.
>>
>> We ust went swimming. landed like 500 feet off shore!
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 5/15/2010 10:49 AM, wb8elk@... wrote:
>>>
>>>
>>>
>>>
>>> Perfect conditions....launch occured at 1525 UTC from the flea market
>>> at the Dayton Hamvention.
>>> Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
>>> DominoEX22 on 146.565: N9QGS
>>> Landing zone is just southwest of the outer belt of Columbus, Ohio.
>>> - Bill WB8ELK
>>>
>>>

>>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>>
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>> Yahoo! Groups Links
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7066. Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 17:20:40 UTC
From: Mike Manes
Topic: 7062 Message: 7066

Looks like Bill's payloads are heading back home. Any luck on fishing
your stuff out of Lk Winnebago?

On 5/15/2010 10:39, Joe wrote:
> This is a "Ala" ELK" bubble wrap system..
>
> hard to say the gps was made with a styrofoam blovk to suport it. and
> the electronice a microtrac 300 with 8 AA cells all wrapped in bubble
> wrap. neutral buyoant? hard to say.
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/15/2010 11:35 AM, Mike Manes wrote:
>> Hi Joe,
>>
>> Hope you had light, watertight payloads! The Puerto Rico team has
>> used trash bags and duct tape on theirs and has mastered maritime
>> recoveries.
>>
>> GL es 73 de Mike W5VSI, EOSS
>>
>> On 5/15/2010 09:56, Joe wrote:
>>> Good Luck Bill.
>>>
>>> We ust went swimming. landed like 500 feet off shore!
>>>
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>>> http://www.idle-tyme.com
>>>
>>> On 5/15/2010 10:49 AM, wb8elk@... wrote:
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>>>>
>>>> Perfect conditions....launch occured at 1525 UTC from the flea market
>>>> at the Dayton Hamvention.
>>>> Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
>>>> DominoEX22 on 146.565: N9QGS
>>>> Landing zone is just southwest of the outer belt of Columbus, Ohio.

>>>> - Bill WB8ELK
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>>> [Non-text portions of this message have been removed]
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7067. Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 17:32:55 UTC
From: Joe
Topic: 7062 Message: 7067
Attachments: 1 described; binary payloads are missing from this source WARC

There are some locals going out to look, they say where it landed it.s
only a few feet deep. so even if all of it went to the bottom,, if it's
less than 20 feet or so, Linda had a bunch of like cause ribbons
attached to a LONG LONG string. 100'+ so they might be floating even if
all the payload stuff is not.
Flight 49,, and might be out first to not recover. Bummer!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 12:20 PM, Mike Manes wrote:
> Looks like Bill's payloads are heading back home. Any luck on fishing
> your stuff out of Lk Winnebago?
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> On 5/15/2010 10:39, Joe wrote:
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>>> used trash bags and duct tape on theirs and has mastered maritime
>>> recoveries.
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>>> GL es 73 de Mike W5VSI, EOSS
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>>> On 5/15/2010 09:56, Joe wrote:
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>>>> The Original Rolling Ball Clock

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>>>> http://www.idle-tyme.com
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>>>> On 5/15/2010 10:49 AM, wb8elk@... wrote:
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>>>>> Perfect conditions....launch occured at 1525 UTC from the flea market
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>>>>> Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
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>>>>> Landing zone is just southwest of the outer belt of Columbus, Ohio.
>>>>> - Bill WB8ELK
>>>>>
>>>>>
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>>>> [Non-text portions of this message have been removed]
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>>>> Yahoo! Groups Links
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7068. Re: Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 17:54:23 UTC
From: wb8elk@aol.com
Topic: 7062 Message: 7068
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe...my WB8ELK-10 APRS tracker today at the Hamvention was a "bubble-wrap" special as well....6 AA lithium batteries, Microtrak300 with SMA-24 whip and my new Inventek GPS board. It weighed in at 8 ounces....all mounted on a 2 inch wide strip of foamcore and surrounded by 3 layers of clear small-cell bubblewrap. The last few flights I've used this system it got a GPS lock in less than a minute at powerup.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: Mike Manes <mrmanes@...>
Cc: Balloonatics@yahoogroups.com; Ballooning@yahoogroups.com; wb8elk@...; balloon_sked@yahoogroups.com; GPSL@yahoogroups.com
Sent: Sat, May 15, 2010 11:39 am
Subject: Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

This is a "Ala" ELK" bubble wrap system..

hard to say the gps was made with a styrofoam blovk to suport it. and the electronice a microtrac 300 with 8 AA cells all wrapped in bubble wrap. neutral buyoant? hard to say.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
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On 5/15/2010 11:35 AM, Mike Manes wrote:
Hi Joe,

Hope you had light, watertight payloads! The Puerto Rico team has
used trash bags and duct tape on theirs and has mastered maritime
recoveries.

GL es 73 de Mike W5VSI, EOSS

On 5/15/2010 09:56, Joe wrote:

Good Luck Bill.

We ust went swimming. landed like 500 feet off shore!

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On 5/15/2010 10:49 AM, wb8elk@... wrote:

Perfect conditions....launch occured at 1525 UTC from the flea market
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Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
DominoEX22 on 146.565: N9QGS
Landing zone is just southwest of the outer belt of Columbus, Ohio.
- Bill WB8ELK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

7069. Re: [GPSL] Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 17:57:56 UTC
From: wb8elk@aol.com
Topic: 7062 Message: 7069
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe....the bubblewrap payload should float....we splashed down in the Tennessee River a couple weeks ago and a bass fisherman found it within minutes of landing...my APRS payload was still working after they fished it out of the water.

Yours will wash up on shore or be found by a fisherman in short order.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@mwt.net>
To: Mike Manes <mrmanes@...>
Cc: Balloonatics@...m; Ballooning@yahoogroups.com; wb8elk@...;
balloon_sked@yahoogroups.com; GPSL@yahoogroups.com
Sent: Sat, May 15, 2010 12:32 pm
Subject: [GPSL] Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

There are some locals going out to look, they say where it landed it.s only a few feet deep. so even if all of it went to the bottom,, if it's less than 20 feet or so, Linda had a bunch of like cause ribbons attached to a LONG LONG string. 100'+ so they might be floating even if all the payload stuff is not.
Flight 49,, and might be out first to not recover. Bummer!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 12:20 PM, Mike Manes wrote:
Looks like Bill's payloads are heading back home. Any luck on fishing
your stuff out of Lk Winnebago?

On 5/15/2010 10:39, Joe wrote:

This is a "Ala" ELK" bubble wrap system..

hard to say the gps was made with a styrofoam blovk to suport it. and
the electronice a microtrac 300 with 8 AA cells all wrapped in bubble
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On 5/15/2010 11:35 AM, Mike Manes wrote:

Hi Joe,

Hope you had light, watertight payloads! The Puerto Rico team has
used trash bags and duct tape on theirs and has mastered maritime
recoveries.

GL es 73 de Mike W5VSI, EOSS

On 5/15/2010 09:56, Joe wrote:

Good Luck Bill.

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The Original Rolling Ball Clock
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On 5/15/2010 10:49 AM, wb8elk@... wrote:

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Callsigns on APRS 144.39: WB8ELK-10 and KB8PVR-6
DominoEX22 on 146.565: N9QGS
Landing zone is just southwest of the outer belt of Columbus, Ohio.
- Bill WB8ELK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

7070. Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 18:17:14 UTC
From: Mike Manes
Topic: 7062 Message: 7070

Well, parachute nylon is lighter than water, so unless it got pulled
down, then the landing site ought to be easy to find. GL bringing
any soaked payloads back to life. If there's no electrolytic corrosion,
then chances are good if you wash 'em out in clear water, like take 'em into
the shower with ya :=). It's worked for me.

73 de Mike W5VSI

On 5/15/2010 11:32, Joe wrote:
> There are some locals going out to look, they say where it landed it.s
> only a few feet deep. so even if all of it went to the bottom,, if it's
> less than 20 feet or so, Linda had a bunch of like cause ribbons
> attached to a LONG LONG string. 100'+ so they might be floating even if
> all the payload stuff is not.
> Flight 49,, and might be out first to not recover. Bummer!
>
> The Original Rolling Ball Clock
> Idle Tyme
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> On 5/15/2010 12:20 PM, Mike Manes wrote:
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>>>>> [Non-text portions of this message have been removed]
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>>>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7071. Dayton Hamvention balloon has been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 18:39:29 UTC
From: wb8elk@aol.com
Topic: 7071 Message: 7071
Attachments: 1 described; binary payloads are missing from this source WARC

The Hamvention balloon landed southwest of Darbyville, Ohio in an open field about 300 feet from the road and managed to miss the high tension lines about 500 feet to the south....Ron N9QGS could see the parachute from the road. However, the white payload with the Flip Ultra Camcorder and the FindMeSpot unit was not attached and likely the string holding it broke at burst. So far I haven't seen any updates from the FindMeSpot unit but am hoping it will come on soon....It was very lightweight so hopefully it didn't hit too hard....however if it hit hard, it may not be functional so will have to rely on the Reward sign.

Photo of the landing spot attached.

- Bill WB8ELK

7072. Re: [GPSL] Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 21:03:32 UTC
From: Keith Kaiser
Topic: 7062 Message: 7072

Joe, did I miss posting one of your flights?

On May 15, 2010, at 12:32 PM, Joe wrote:

> There are some locals going out to look, they say where it landed it.s only a few feet deep. so even if all of it went to the bottom,, if it's less than 20 feet or so, Linda had a bunch of like cause ribbons attached to a LONG LONG string. 100'+ so they might be floating even if all the payload stuff is not.
> Flight 49,, and might be out first to not recover. Bummer!
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
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> On 5/15/2010 12:20 PM, Mike Manes wrote:
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7073. Re: [GPSL] Re: [Balloonatics] Re: [Ballooning] Dayton Hamvention balloon now in the air

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 22:30:22 UTC
From: Joe
Topic: 7062 Message: 7073
Attachments: 1 described; binary payloads are missing from this source WARC

Not really,

It was a last minute crunch to test another GPS. it arived late
yesterday so we diddn't even know if we were going to have anything to
test fly.

so diddn't advertise it at all.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 4:03 PM, Keith Kaiser wrote:
>
>
> Joe, did I miss posting one of your flights?
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>> Flight 49,, and might be out first to not recover. Bummer!
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
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>>>>>> [Non-text portions of this message have been removed]
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>>>>>> Yahoo! Groups Links

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7074. Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-15 22:52:54 UTC
From: Joe
Topic: 7074 Message: 7074
Attachments: 1 described; binary payloads are missing from this source WARC

BallTrak

The Near Space Ventures, and not someone ust told me about this one

http://weather.uwyo.edu/polar/balloon_traj.html

with such few fields to fill in, how is the accuracy? Anyone know?

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

7075. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 00:58:34 UTC
From: wb8elk@aol.com
Topic: 7074 Message: 7075
Attachments: 3 described; binary payloads are missing from this source WARC

Joe and all,

Interesting you should ask about the three online prediction programs....I wish I had thought to compare these when the 15z data was still active so I could compare it against my actual flight path....but I will tell you that the Near Space Ventures Online Balloon Track was very accurate for today's flight, particularly in the parachute descent portion....the burst was a few miles further west of my prediction probably due to a small difference in the overall ascent rate...or possibly the Reynolds number knee effect (which by the way can be modeled in the PC version of Balloon Track).

Online Balloon Track on the Nearspace Ventures website will give you the identical results of the PC version of Balloon Track since they use the same algorithms.

The Univ of Wyoming predictor doesn't allow you to change the ascent or descent rates so unless you happen to match those same parameters in your flight, it will be not be usable for accurate predictions. As you can see from the attached map, it shows a landing site 10 miles further downrange than online balloon track and the CUSF predictor from the UK....70 miles instead of 60 miles. The actual track and parachute modeling seems good but unless they provide us with an option to adjust the ascent and descent rates, it's not usable. The MIT students recommend this in their balloon guide to the general public so I imagine folks just starting out will be losing some payloads.

The Cambridge University (CUSF) online predictor is nicely done, but you'll have to convert to the metric system....the hardest part is to make sure you use meters/sec instead of feet/minute. Other than that, it also is quite accurate....the burst points are very close between the CUSF site and online Balloon Track....however, their parachute modeling puts the descent portion further downrange. Since the parachute descent was quite accurate on online Balloon Track's prediction today compared to my actual flight, I would that they may be modeling the parachute with a different coefficient of drag than is used in online Balloon Track....whether they are predicting a bit too long or not on the descent portion is something I'll have to compare during upcoming flights. Other than that, it's a very nicely done display and map.

Attached are the three screenshots for today at 1800 UTC's wind model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, May 15, 2010 5:52 pm
Subject: [GPSL] Prediction Programs

BallTrak

The Near Space Ventures, and not someone ust told me about this one

http://weather.uwyo.edu/polar/balloon_traj.html

with such few fields to fill in, how is the accuracy? Anyone know?

Joe

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The Original Rolling Ball Clock
Idle Tyme
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http://www.idle-tyme.com

7076. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 02:09:10 UTC
From: Joe
Topic: 7074 Message: 7076
Attachments: 2 described; binary payloads are missing from this source WARC

Ours was really weird Bill,

We flew the exact same payload as last week. Just a bigger balloon.
What made no sense was tho the acent rate and path matched ventures
perfectly like withinn a mile real to predicted. but the flight down
while the final decent rate matched the numbers from last flight, and
this one post flight too. but the path of the decent wasn' even close
at all to the predicted one. and the balloon landed at least 20 miles
downrange also.

very strange.
Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2010 7:58 PM, wb8elk@... wrote:
>
> Joe and all,
> Interesting you should ask about the three online prediction
> programs....I wish I had thought to compare these when the 15z data
> was still active so I could compare it against my actual flight
> path....but I will tell you that the Near Space Ventures Online
> Balloon Track was very accurate for today's flight, particularly in
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> - Bill WB8ELK
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> -----Original Message-----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, May 15, 2010 5:52 pm
> Subject: [GPSL] Prediction Programs
>
> BallTrak
>
> The Near Space Ventures, and not someone ust told me about this one
>
> http://weather.uwyo.edu/polar/balloon_traj.html
>
> with such few fields to fill in, how is the accuracy? Anyone know?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>

7077. Re: [GPSL] Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 03:06:02 UTC
From: Michael Willett
Topic: 7061 Message: 7077

Good luck getting support from these clowns. I bought 2 GPS units from them last year, one arrived DOA. I contacted them both by email 2X and voice mail 1X and not ever a call or email back. They don't get my vote, and I am pretty easy on suppliers typically.

--Michael
K5NOT

On 5/14/2010 8:46 PM, Zack Clobes wrote:
>
> It looks like SparkFun is now carrying a Sarantel 18db active helix
> antenna now for $23.
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=9871
> <http://www.sparkfun.com/commerce/product_info.php?products_id=9871>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org/>
>
>

7078. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 14:51:28 UTC
From: Keith Kaiser
Topic: 7074 Message: 7078

I think part of the descent problem is due to the fact that we should be picking up a downline sounding as well. The initial ascent prediction is based on the airport you supply. But the 100 miles later descent is based on the same one. Where it most likely should be base on a new one. This is actually something Troy has talked about a number of times doing automatically. And in fact if you look at the projection, all airports within the flight path are actually displayed partially in preparation for this coding effort.

Who wants to tackle the perl code for Troy and make this happen?

On May 15, 2010, at 9:09 PM, Joe wrote:

> Ours was really weird Bill,
>
> We flew the exact same payload as last week. Just a bigger balloon. What made no sense was tho the acent rate and path matched ventures perfectly like withinn a mile real to predicted. but the flight down while the final decent rate matched the numbers from last flight, and this one post flight too. but the path of the decent wasn' even close at all to the predicted one. and the balloon landed at least 20 miles downrange also.
>
> very strange.
> Joe
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/15/2010 7:58 PM, wb8elk@... wrote:
>>
>>
>> Joe and all,
>>
>> Interesting you should ask about the three online prediction programs....I wish I had thought to compare these when the 15z data was still active so I could compare it against my actual flight path....but I will tell you that the Near Space Ventures Online Balloon Track was very accurate for today's flight, particularly in the parachute descent portion....the burst was a few miles further west of my prediction probably due to a small difference in the overall ascent rate...or possibly the Reynolds number knee effect (which by the way can be modeled in the PC version of Balloon Track).
>>
>> Online Balloon Track on the Nearspace Ventures website will give you the identical results of the PC version of Balloon Track since they use the same algorithms.
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>> The Univ of Wyoming predictor doesn't allow you to change the ascent or descent rates so unless you happen to match those same parameters in your flight, it will be not be usable for accurate predictions. As you can see from the attached map, it shows a landing site 10

miles further downrange than online balloon track and the CUSF predictor from the UK....70 miles instead of 60 miles. The actual track and parachute modeling seems good but unless they provide us with an option to adjust the ascent and descent rates, it's not usable. The MIT students recommend this in their balloon guide to the general public so I imagine folks just starting out will be losing some payloads.
>>
>> The Cambridge University (CUSF) online predictor is nicely done, but you'll have to convert to the metric system....the hardest part is to make sure you use meters/sec instead of feet/minute. Other than that, it also is quite accurate....the burst points are very close between the CUSF site and online Balloon Track....however, their parachute modeling puts the descent portion further downrange. Since the parachute descent was quite accurate on online Balloon Track's prediction today compared to my actual flight, I would that they may be modeling the parachute with a different coefficient of drag than is used in online Balloon Track....whether they are predicting a bit too long or not on the descent portion is something I'll have to compare during upcoming flights. Other than that, it's a very nicely done display and map.
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>> Attached are the three screenshots for today at 1800 UTC's wind model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
>>
>> - Bill WB8ELK
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>> -----Original Message-----
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>> with such few fields to fill in, how is the accuracy? Anyone know?
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>> Joe
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>> <Mail Attachment.jpeg>
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>> http://www.idle-tyme.com

7079. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 15:08:47 UTC
From: HarryM
Topic: 7074 Message: 7079

This is something that I have done for almost all flights especially when OSU flies. I will use the Stillwater sounding to the west, Tulsa to the east and compare the two flight paths. I will also use other soundings in the area depending on the initial prediction. Sometimes I have used up to 4 seperate soundings for comparisons. This does give a more accurate landing prediction.

> I think part of the descent problem is due to the fact that we should be
> picking up a downline sounding as well.

7080. Re: [GPSL] Prediction Programs [3 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 15:15:41 UTC
From: Joe
Topic: 7074 Message: 7080

Hi Bill and everyone.

A continuation of the below topic of flight prediction programs, sites, etc.

Any programmers out there? Now I faintly remember something about what I am about to describe from at LEAST a decade ago. And at least for me it never came to be. Or if it did I missed it, not an unusual event, especially since our group took off several large gaps in activity. But if it did not happen, anyone up to trying to make it, or if it did happen, where is it so I can use it? With the awfully skilled people we have now making prediction web sites and prediction programs, maybe it's time we did what I am going to try to describe below.

I was thinking just now, and I of course don't know anything about programming so what I'm about to say may sound simple, but in reality is impossible to implement. Maybe? I dunno.

Ok we have a flight scheduled. And we plug into say like the NSV site all the details, location, rates of climb, fall, burst altitude etc. (by the way guys,, can we ask for an addition like baltrak has a float option? Where we can specify a float altitude and duration? That would be super cool!

Ok we go to run a prediction. and we get the data from the national weather service. For the direction and speed of the winds aloft. We plug it all in, you all know what I'm talking about. And we tell it to tell us the flight profile! Super cool!

But these data sets from the NWS can be easily 14 hours old even! Then we also guess the estimated rate of climb and fall. and tell this all to that programs and it spits out the predicted landing location.

But there we go for the reason of the errors from prediction to real world is the variables. The estimated speed up and down as well as how fast the NWS data can be changing. Especially if a front is passing through etc. but it's what we have, is what we have and it does work amazingly well.

Now this is where I may not know what I'm talking about, but then again maybe it's really simple too and just no ones tried to do it? A new system...

Lets see we run a prediction, exactly the same as before described above, and make our best guesses and get the best winds aloft data possible. and make a prediction, and it spits out using Google maps the flight profile as usual.

Now the program remains in like a standby mode? or something,

Now How does APRS.FI or Findu grab the dats from how ever it gets it's info from the balloons, to plot the balloons position. Can we not now also grab this dats stream and have it each time a new packet bundle comes through have it use this ultra freash sounding data info the get an exact true sounding now. Ya know what i mean?

why can we not use the very same data hello? what does the weather service supply? the flight of their balloon, by the speed and diretion it's moving it tells us what the winds aloft are.

after we lift off why can we not harvest this same dats and have it automatically with every packet bundle of data re calculate the new landing position with this perfect and highly accurate movement of the balloon?

we have true speed and directions as well as rate of climbs and falls not guess estimates.

have the program using this brand new data constantly tweak the estimated landing spot?

So it's like a blend of the NSV prediction site and APRS.fi sites. we see the predicted flight path, and the balloons current prediction, and as the flight is progressing along the site uses this fresh sounding data coming directly from the balloon, (can't get sounding info any fresher than this) and it for each bundle re calculates the final resting landing spot.

Is this possible,

Yes?
No?
Joe
On 5/15/2010 7:58 PM, wb8elk@... wrote:
> [Attachment(s) <#TopText> from wb8elk@... included below]
>
>
> Joe and all,
> Interesting you should ask about the three online prediction
> programs....I wish I had thought to compare these when the 15z data
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> Attached are the three screenshots for today at 1800 UTC's wind
> model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
> - Bill WB8ELK

7081. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 15:46:41 UTC
From: James Coxon
Topic: 7074 Message: 7081

Hey all,
While perhaps not directly useful for the APRS system, the latest version of http://spacenear.us/tracker has an integrated flight predictor which uses the latest GFS data and then in realtime updates its landing prediction, its really helpful when chasing the flight especially for the last 500m or so when you lose the radio signal.

Currently it uses the atmospheric model that is used in the CUSF predictor but an additional algorithm has been written that calculates the actual ballistic co-efficient based on the descent data to make it even more accurate - just waiting for it to be integrated.

I've also seen PIC code that does landing prediction onboard the flight computer itself which uses the ascent profile to calculate its landing site which it downlinks over the radio - this is very useful in the UK as we can use it to automate the cutdown to avoid landing in the sea.

Regarding calculating balloon float I've got some hacked scripts that combined the CUSF ascent predictor with the NOAA Hysplit modelling program to generate long duration flights.

It certainly wouldn't be a challenge to lift the data off aprs.fi and then continually run it through a predictor to generate a realtime landing site preditction.

James
M6JCX
http://www.pegasushabproject.org.uk

On 16 May 2010 16:15, Joe <nss@...> wrote:

>
>
> Hi Bill and everyone.
>
> A continuation of the below topic of flight prediction programs, sites,
> etc.
>
> Any programmers out there? Now I faintly remember something about what I am
> about to describe from at LEAST a decade ago. And at least for me it never
> came to be. Or if it did I missed it, not an unusual event, especially since
> our group took off several large gaps in activity. But if it did not
> happen, anyone up to trying to make it, or if it did happen, where is it so
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> web sites and prediction programs, maybe it's time we did what I am going to
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> I was thinking just now, and I of course don't know anything about
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> impossible to implement. Maybe? I dunno.
>
> Ok we have a flight scheduled. And we plug into say like the NSV site all
> the details, location, rates of climb, fall, burst altitude etc. (by the
> way guys,, can we ask for an addition like baltrak has a float option? Where
> we can specify a float altitude and duration? That would be super cool!
>
> Ok we go to run a prediction. and we get the data from the national weather
> service. For the direction and speed of the winds aloft. We plug it all in,
> you all know what I'm talking about. And we tell it to tell us the flight
> profile! Super cool!
>
> But these data sets from the NWS can be easily 14 hours old even! Then we
> also guess the estimated rate of climb and fall. and tell this all to that
> programs and it spits out the predicted landing location.
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> But there we go for the reason of the errors from prediction to real world
> is the variables. The estimated speed up and down as well as how fast the
> NWS data can be changing. Especially if a front is passing through etc.
> but it's what we have, is what we have and it does work amazingly well.
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> maybe it's really simple too and just no ones tried to do it? A new
> system...
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> Lets see we run a prediction, exactly the same as before described above,
> and make our best guesses and get the best winds aloft data possible. and
> make a prediction, and it spits out using Google maps the flight profile as
> usual.
>
> Now the program remains in like a standby mode? or something,
>
> Now How does APRS.FI or Findu grab the dats from how ever it gets it's
> info from the balloons, to plot the balloons position. Can we not now also
> grab this dats stream and have it each time a new packet bundle comes
> through have it use this ultra freash sounding data info the get an exact
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> automatically with every packet bundle of data re calculate the new landing
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> guess estimates.

>
> have the program using this brand new data constantly tweak the estimated
> landing spot?
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> the predicted flight path, and the balloons current prediction, and as the
> flight is progressing along the site uses this fresh sounding data coming
> directly from the balloon, (can't get sounding info any fresher than this)
> and it for each bundle re calculates the final resting landing spot.
>
> Is this possible,
>
> Yes?
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>
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> Joe and all,
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> Interesting you should ask about the three online prediction
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>
>
>

7082. Re: Prediction Programs [3 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 16:48:55 UTC
From: jjdemeyer
Topic: 7074 Message: 7082

Joe,

If I understand correctly, you are suggesting to use the data collected during the ascent to help predict the flight path during the descent. If that is the case, the MapPoint add-in I wrote does just that. The real-time flight path prediction combines the flight data with the NWS data (from READY) to plot a predicted flight path.

I'm intrigued with the suggestions to use more than one sounding to improve the accuracy of the flight path prediction and will begin to investigate how I might add that to my add-in. Presently, I am testing a recent change in the add-in to use the measured ascent rate for the real-time flight path prediction.

Information about the add-in is here:
http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm

The download page is here:
http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrack.Download

Joe

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> > - Bill WB8ELK
>

7083. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 16:51:03 UTC
From: Ed Moore
Topic: 7074 Message: 7083

Hi Joe,

The CUSF predictor does include a 'float' option - a time in seconds spent at a particular altitude. cuspaceflight.co.uk/predict

Your main question is an interesting one. The question is really if knowing the winds at your current altitude (based on live telemetry) helps you better estimate the winds at higher altitudes for the rest of the flight. This correlation we seek is infact very complex and non-linear, and is the sort of thing the forecast supercomputers concern themselves with, but it is significantly beyond the scope of our prediction program. A naive approach of saying 'the winds seem to be 10% faster than predicted so let's add 10% to all the predicted winds' doesn't work at all, and when we tested it 'just to see' produced significantly worse results than trusted the a priori GFS data.

To answer Bill's question about our descent calculation, it just assumes eqilibrium the whole way down, using the standard drag equation. I think eqilibrium is a fair assumption as the the erros induced by the initial post-burst downwards acceleration are negligible.

As James Coxon mentioned, I wrote a quick algorithm for the online tracker (spacenear.us/tracker) which should calculate the actual ballistics of the falling payload to improve the landing prediction in real time. It should hopefully be integrated soon.

Another tool is cuspaceflight.co.uk/hourly-predictions . This provides the locus of landing points for launces on the hour for the next 5 days, for a given ascent/descent profile. This gives a useful 'week at a glance' to see what the atmosphere has in store for us.

Ed Moore (M0TEK)
CUSF

On 16 May 2010, at 16:15, Joe <nss@...> wrote:

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>
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> sites, etc.
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> for me it never came to be. Or if it did I missed it, not an unusual
> event, especially since our group took off several large gaps in
> activity. But if it did not happen, anyone up to trying to make it,
> or if it did happen, where is it so I can use it? With the awfully

> skilled people we have now making prediction web sites and
> prediction programs, maybe it's time we did what I am going to try
> to describe below.
>
> I was thinking just now, and I of course don't know anything about
> programming so what I'm about to say may sound simple, but in
> reality is impossible to implement. Maybe? I dunno.
>
> Ok we have a flight scheduled. And we plug into say like the NSV
> site all the details, location, rates of climb, fall, burst
> altitude etc. (by the way guys,, can we ask for an addition like
> baltrak has a float option? Where we can specify a float altitude
> and duration? That would be super cool!
>
> Ok we go to run a prediction. and we get the data from the national
> weather service. For the direction and speed of the winds aloft. We
> plug it all in, you all know what I'm talking about. And we tell it
> to tell us the flight profile! Super cool!
>
> But these data sets from the NWS can be easily 14 hours old even!
> Then we also guess the estimated rate of climb and fall. and tell
> this all to that programs and it spits out the predicted landing
> location.
>
> But there we go for the reason of the errors from prediction to real
> world is the variables. The estimated speed up and down as well as
> how fast the NWS data can be changing. Especially if a front is
> passing through etc. but it's what we have, is what we have and it
> does work amazingly well.
>
> Now this is where I may not know what I'm talking about, but then
> again maybe it's really simple too and just no ones tried to do it?
> A new system...
>
> Lets see we run a prediction, exactly the same as before described
> above, and make our best guesses and get the best winds aloft data
> possible. and make a prediction, and it spits out using Google maps
> the flight profile as usual.
>
> Now the program remains in like a standby mode? or something,
>
> Now How does APRS.FI or Findu grab the dats from how ever it gets
> it's info from the balloons, to plot the balloons position. Can we
> not now also grab this dats stream and have it each time a new
> packet bundle comes through have it use this ultra freash sounding
> data info the get an exact true sounding now. Ya know what i mean?
>
> why can we not use the very same data hello? what does the weather
> service supply? the flight of their balloon, by the speed and
> diretion it's moving it tells us what the winds aloft are.

>
> after we lift off why can we not harvest this same dats and have
> it automatically with every packet bundle of data re calculate the
> new landing position with this perfect and highly accurate movement
> of the balloon?
>
> we have true speed and directions as well as rate of climbs and
> falls not guess estimates.
>
> have the program using this brand new data constantly tweak the
> estimated landing spot?
>
> So it's like a blend of the NSV prediction site and APRS.fi sites.
> we see the predicted flight path, and the balloons current
> prediction, and as the flight is progressing along the site uses
> this fresh sounding data coming directly from the balloon, (can't
> get sounding info any fresher than this) and it for each bundle re
> calculates the final resting landing spot.
>
> Is this possible,
>
> Yes?
> No?
> Joe
> On 5/15/2010 7:58 PM, wb8elk@... wrote:
>
>>
>> Joe and all,
>>
>> Interesting you should ask about the three online prediction
>> programs....I wish I had thought to compare these when the 15z data
>> was still active so I could compare it against my actual flight
>> path....but I will tell you that the Near Space Ventures Online
>> Balloon Track was very accurate for today's flight, particularly in
>> the parachute descent portion....the burst was a few miles further
>> west of my prediction probably due to a small difference in the
>> overall ascent rate...or possibly the Reynolds number knee effect
>> (which by the way can be modeled in the PC version of Balloon Track).
>>
>> Online Balloon Track on the Nearspace Ventures website will give
>> you the identical results of the PC version of Balloon Track since
>> they use the same algorithms.
>>
>> The Univ of Wyoming predictor doesn't allow you to change the
>> ascent or descent rates so unless you happen to match those same
>> parameters in your flight, it will be not be usable for accurate
>> predictions. As you can see from the attached map, it shows a
>> landing site 10 miles further downrange than online balloon track
>> and the CUSF predictor from the UK....70 miles instead of 60 miles.
>> The actual track and parachute modeling seems good but unless they

>> provide us with an option to adjust the ascent and descent rates,
>> it's not usable. The MIT students recommend this in their balloon
>> guide to the general public so I imagine folks just starting out
>> will be losing some payloads.
>>
>> The Cambridge University (CUSF) online predictor is nicely done,
>> but you'll have to convert to the metric system....the hardest part
>> is to make sure you use meters/sec instead of feet/minute. Other
>> than that, it also is quite accurate....the burst points are very
>> close between the CUSF site and online Balloon Track....however,
>> their parachute modeling puts the descent portion further
>> downrange. Since the parachute descent was quite accurate on online
>> Balloon Track's prediction today compared to my actual flight, I
>> would that they may be modeling the parachute with a different
>> coefficient of drag than is used in online Balloon Track....whether
>> they are predicting a bit too long or not on the descent portion is
>> something I'll have to compare during upcoming flights. Other than
>> that, it's a very nicely done display and map.
>>
>> Attached are the three screenshots for today at 1800 UTC's wind
>> model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
>>
>> - Bill WB8ELK
>
>

7084. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 17:13:41 UTC
From: Joe
Topic: 7074 Message: 7084
Attachments: 1 described; binary payloads are missing from this source WARC

See below,,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/16/2010 11:51 AM, Ed Moore wrote:
>
>
> Hi Joe,
>
> The CUSF predictor does include a 'float' option - a time in seconds
> spent at a particular altitude. cuspaceflight.co.uk/predict
> <http://cuspaceflight.co.uk/predict>
I will check that out Thanks.
>
> Your main question is an interesting one. The question is really if
> knowing the winds at your current altitude (based on live telemetry)
> helps you better estimate the winds at higher altitudes for the rest
> of the flight.
Well not really, I'm i guess thinking of having it do what we do
manually during a flight. we have the predicted route. and we see what
it's doing real time. and we see that it's running say 5 miles to the
southeast as to compared to the prediction. so we in our minds move the
predicted landing spot more to the south east.

or the winds at 10K feet were 90 deg and 38 MPh, but we see in reality
that they are now via the balloon 110 deg and 62 MPh, and the program
adjusts the prediction accordingly.
> This correlation we seek is infact very complex and non-linear, and is
> the sort of thing the forecast supercomputers concern themselves with,
> but it is significantly beyond the scope of our prediction program. A
> naive approach of saying 'the winds seem to be 10% faster than
> predicted so let's add 10% to all the predicted winds' doesn't work at
> all, and when we tested it 'just to see' produced significantly worse
> results than trusted the a priori GFS data.
>
> ! !
> To answer Bill's question about our descent calculation, it just
> assumes eqilibrium the whole way down, using the standard drag
> equation. I think eqilibrium is a fair assumption as the the erros
> induced by the initial post-burst downwards acceleration are negligible.
>
> As James Coxon mentioned, I wrote a quick algorithm for the online

> tracker (spacenear.us/tracker <http://spacenear.us/tracker>) which
> should calculate the actual ballistics of the falling payload to
> improve the landing prediction in real time. It should hopefully be
> integrated soon.
>
> Another tool is cuspaceflight.co.uk/hourly-predictions
> <http://cuspaceflight.co.uk/hourly-predictions> . This provides the
> locus of landing points for launces on the hour for the next 5 days,
> for a given ascent/descent profile. This gives a useful 'week at a
> glance' to see what the atmosphere has in store for us.
>
> Ed Moore (M0! ! TEK)
> CUSF
>
> On 16 May 2010, at 16:15, Joe <nss@... <mailto:nss@...>> wrote:
>
>> Hi Bill and everyone.
>>
>> A continuation of the below topic of flight prediction programs,
>> sites, etc.
>>
>> Any programmers out there? Now I faintly remember something about
>> what I am about to describe from at LEAST a decade ago. And at least
>> for me it never came to be. Or if it did I missed it, not an unusual
>> event, especially since our group took off several large gaps in
>> activity. But if it did not happen, anyone up to trying to make it,
>> or if it did happen, where is it so I can use it? With the awfully
>> skilled people we have now making prediction web sites and prediction
>> programs, maybe it's time we did what I am going to try to describe
>> below.
>>
>> I was thinking just now, and I of course don't know anything about
>> programming so what I'm about to say may sound simple, but in reality
>> is impossible to implement. Maybe? I dunno.
>>
>> Ok we have a flight scheduled. And we plug into say like the NSV
>> site all the details, location, rates of climb, fall, burst
>> altitude etc. (by the way guys,, can we ask for an addition like
>> baltrak has a float option? Where we can specify a float altitude and
>> duration? That would be super cool!
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>> Ok we go to run a prediction. and we get the data from the national
>> weather service. For the direction and speed of the winds aloft. We
>> plug it all in, you all know what I'm talking about. And we tell it
>> to tell us the flight profile! Super cool!
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>> But these data sets from the NWS can be easily 14 hours old even!
>> Then we also guess the estimated rate of climb and fall. and tell
>> this all to that programs and it spits out the predicted landing
>> location.

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>> But there we go for the reason of the errors from prediction to real
>> world is the variables. The estimated speed up and down as well as
>> how fast the NWS data can be changing. Especially if a front is
>> passing through etc. but it's what we have, is what we have and it
>> does work amazingly well.
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>> Now this is where I may not know what I'm talking about, but then
>> again maybe it's really simple too and just no ones tried to do it? A
>> new system...
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>> Lets see we run a prediction, exactly the same as before described
>> above, and make our best guesses and get the best winds aloft data
>> possible. and make a prediction, and it spits out using Google maps
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>> Now the program remains in like a standby mode? or something,
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>> Now How does APRS.FI or Findu grab the dats from how ever it gets
>> it's info from the balloons, to plot the balloons position. Can we
>> not now also grab this dats stream and have it each time a new packet
>> bundle comes through have it use this ultra freash sounding data info
>> the get an exact true sounding now. Ya know what i mean?
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>> service supply? the flight of their balloon, by the speed and
>> diretion it's moving it tells us what the winds aloft are.
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>> after we lift off why can we not harvest this same dats and have it
>> automatically with every packet bundle of data re calculate the new
>> landing position with this perfect and highly accurate movement of
>> the balloon?
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>> we have true speed and directions as well as rate of climbs and
>> falls not guess estimates.
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>> have the program using this brand new data constantly tweak the
>> estimated landing spot?
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>> we see the predicted flight path, and the balloons current
>> prediction, and as the flight is progressing along the site uses this
>> fresh sounding data coming directly from the balloon, (can't get
>> sounding info any fresher than this) and it for each bundle re
>> calculates the final resting landing spot.
>>
>> Is this possible,
>>
>> Yes?
>> No?

>> Joe
>> On 5/15/2010 7:58 PM, wb8elk@... <mailto:wb8elk@...> wrote:
>>
>>>
>>> Joe and all,
>>> Interesting you should ask about the three online prediction
>>> programs....I wish I had thought to compare these when the 15z data
>>> was still active so I could compare it against my actual flight
>>> path....but I will tell you that the Near Space Ventures Online
>>> Balloon Track was very accurate for today's flight, particularly in
>>> the parachute descent portion....the burst was a few miles further
>>> west of my prediction probably due to a small difference in the
>>> overall ascent rate...or possibly the Reynolds number knee effect
>>> (which by the way can be modeled in the PC version of Balloon Track).
>>> Online Balloon Track on the Nearspace Ventures website will give you
>>> the identical results of the PC version of Balloon Track since they
>>> use the same algorithms.
>>> The Univ of Wyoming predictor doesn't allow you to change the ascent
>>> or descent rates so unless you happen to match those same parameters
>>> in your flight, it will be not be usable for accurate predictions.
>>> As you can see from the attached map, it shows a landing site 10
>>> miles further downrange than online balloon track and the CUSF
>>> predictor from the UK....70 miles instead of 60 miles. The actual
>>> track and parachute modeling seems good but unless they provide us
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>>> the general public so I imagine folks just starting out will be
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>>> between the CUSF site and online Balloon Track....however, their
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>>> the parachute descent was quite accurate on online Balloon Track's
>>> prediction today compared to my actual flight, I would that they may
>>> be modeling the parachute with a different coefficient of drag than
>>> is used in online Balloon Track....whether they are predicting a bit
>>> too long or not on the descent portion is something I'll have to
>>> compare during upcoming flights. Other than that, it's a very nicely
>>> done display and map.
>>> Attached are the three screenshots for today at 1800 UTC's wind
>>> model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
>>> - Bill WB8ELK
>
>
>

7085. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 22:39:42 UTC
From: Mike Manes
Topic: 7074 Message: 7085

I think Rick's WinBallTrak does include feature that extracts a new wind
table from the real-time ascent data and uses it after burst to forecast
a new descent trajectory and landing site. Rick typically runs this several
times during descent and beacons out the new landing predict in APRS via
the balloon's digi.

73 de Mike W5VSI

On 5/15/2010 20:09, Joe wrote:
> Ours was really weird Bill,
>
> We flew the exact same payload as last week. Just a bigger balloon. What
> made no sense was tho the acent rate and path matched ventures perfectly
> like withinn a mile real to predicted. but the flight down while the
> final decent rate matched the numbers from last flight, and this one
> post flight too. but the path of the decent wasn' even close at all to
> the predicted one. and the balloon landed at least 20 miles downrange also.
>
> very strange.
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/15/2010 7:58 PM, wb8elk@... wrote:
>>
>> Joe and all,
>> Interesting you should ask about the three online prediction
>> programs....I wish I had thought to compare these when the 15z data
>> was still active so I could compare it against my actual flight
>> path....but I will tell you that the Near Space Ventures Online
>> Balloon Track was very accurate for today's flight, particularly in
>> the parachute descent portion....the burst was a few miles further
>> west of my prediction probably due to a small difference in the
>> overall ascent rate...or possibly the Reynolds number knee effect
>> (which by the way can be modeled in the PC version of Balloon Track).
>> Online Balloon Track on the Nearspace Ventures website will give you
>> the identical results of the PC version of Balloon Track since they
>> use the same algorithms.
>> The Univ of Wyoming predictor doesn't allow you to change the ascent
>> or descent rates so unless you happen to match those same parameters
>> in your flight, it will be not be usable for accurate predictions. As
>> you can see from the attached map, it shows a landing site 10 miles

>> further downrange than online balloon track and the CUSF predictor
>> from the UK....70 miles instead of 60 miles. The actual track and
>> parachute modeling seems good but unless they provide us with an
>> option to adjust the ascent and descent rates, it's not usable. The
>> MIT students recommend this in their balloon guide to the general
>> public so I imagine folks just starting out will be losing some payloads.
>> The Cambridge University (CUSF) online predictor is nicely done, but
>> you'll have to convert to the metric system....the hardest part is to
>> make sure you use meters/sec instead of feet/minute. Other than that,
>> it also is quite accurate....the burst points are very close between
>> the CUSF site and online Balloon Track....however, their parachute
>> modeling puts the descent portion further downrange. Since the
>> parachute descent was quite accurate on online Balloon Track's
>> prediction today compared to my actual flight, I would that they may
>> be modeling the parachute with a different coefficient of drag than is
>> used in online Balloon Track....whether they are predicting a bit too
>> long or not on the descent portion is something I'll have to compare
>> during upcoming flights. Other than that, it's a very nicely done
>> display and map.
>> Attached are the three screenshots for today at 1800 UTC's wind
>> model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
>> - Bill WB8ELK
>>
>>
>>
>> -----Original Message-----
>> From: Joe <nss@...>
>> To: GPSL@yahoogroups.com
>> Sent: Sat, May 15, 2010 5:52 pm
>> Subject: [GPSL] Prediction Programs
>>
>> BallTrak
>>
>> The Near Space Ventures, and not someone ust told me about this one
>>
>> http://weather.uwyo.edu/polar/balloon_traj.html
>>
>> with such few fields to fill in, how is the accuracy? Anyone know?
>>
>> Joe
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

7086. Re: [GPSL] Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 22:49:17 UTC
From: Mike Manes
Topic: 7061 Message: 7086

Was your problem with Sarantel or SparkFun?

FWIW, I've made 3 orders with SparkFun, and never had a problem - so
my experience is positive. But then, I've not had a problem to
resolve with them, either.

73 de Mike W5VSI
CTO EOSS

On 5/15/2010 21:06, Michael Willett wrote:
>
> Good luck getting support from these clowns. I bought 2 GPS units from
> them last year, one arrived DOA. I contacted them both by email 2X and
> voice mail 1X and not ever a call or email back. They don't get my vote,
> and I am pretty easy on suppliers typically.
>
> --Michael
> K5NOT
>
>
> On 5/14/2010 8:46 PM, Zack Clobes wrote:
>>
>> It looks like SparkFun is now carrying a Sarantel 18db active helix
>> antenna now for $23.
>>
>> http://www.sparkfun.com/commerce/product_info.php?products_id=9871
>> <http://www.sparkfun.com/commerce/product_info.php?products_id=9871>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org <http://www.projecttraveler.org/>
>>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7087. Re: [GPSL] Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-16 23:48:15 UTC
From: Joe
Topic: 7074 Message: 7087
Attachments: 1 described; binary payloads are missing from this source WARC

I thought this also, but couldn't find it. normal,,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/16/2010 5:39 PM, Mike Manes wrote:
> I think Rick's WinBallTrak does include feature that extracts a new wind
> table from the real-time ascent data and uses it after burst to forecast
> a new descent trajectory and landing site. Rick typically runs this several
> times during descent and beacons out the new landing predict in APRS via
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>>> from the UK....70 miles instead of 60 miles. The actual track and
>>> parachute modeling seems good but unless they provide us with an
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>>> BallTrak
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>>>
>

7088. Video of the Dayton Hamvention balloon launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 00:43:34 UTC
From: wb8elk@aol.com
Topic: 7088 Message: 7088

Nice video of the Dayton Hamvention balloon launch as well as a good report on the Hamvention as well. This was filmed by WHIO Channel 7 TV of Dayton, Ohio.

http://www.whiotv.com/news/23568979/detail.html

- Bill WB8ELK

7089. Re: [GPSL] Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 02:47:45 UTC
From: Michael Willett
Topic: 7061 Message: 7089

I have had zero problems with Sarantel. My problem was with 1 DOA Copernicus GPS. I bought 3 total over time, 2 worked fine, one was flaky. Sparkfun did not return emails or calls. I know some people like these guys, I was one of those. But no longer.

--Michael
K5NOT

On 5/16/2010 5:49 PM, Mike Manes wrote:
> Was your problem with Sarantel or SparkFun?
>
> FWIW, I've made 3 orders with SparkFun, and never had a problem - so
> my experience is positive. But then, I've not had a problem to
> resolve with them, either.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 5/15/2010 21:06, Michael Willett wrote:
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>> On 5/14/2010 8:46 PM, Zack Clobes wrote:
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>>> http://www.sparkfun.com/commerce/product_info.php?products_id=9871
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>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org <http://www.projecttraveler.org/>
>>>

7090. Re: [GPSL] Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 03:15:30 UTC
From: Zack Clobes
Topic: 7061 Message: 7090

I don't doubt your experience, but I'd have to say it was at least somewhat isolated. I've purchased 2-3 orders from them. I called in one time to see if I could add something, and was greeted with a real person who was nice and responsive, even though she couldn't do anything for me (the order had already left their door).

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, May 16, 2010 at 9:47 PM, Michael Willett <mw@...> wrote:

>
> I have had zero problems with Sarantel. My problem was with 1 DOA
> Copernicus GPS. I bought 3 total over time, 2 worked fine, one was flaky.
> Sparkfun did not return emails or calls. I know some people like these guys,
> I was one of those. But no longer.
>
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> On 5/16/2010 5:49 PM, Mike Manes wrote:
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>> Was your problem with Sarantel or SparkFun?
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>> FWIW, I've made 3 orders with SparkFun, and never had a problem - so
>> my experience is positive. But then, I've not had a problem to
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>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 5/15/2010 21:06, Michael Willett wrote:
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>>>
>>> Good luck getting support from these clowns. I bought 2 GPS units from
>>> them last year, one arrived DOA. I contacted them both by email 2X and
>>> voice mail 1X and not ever a call or email back. They don't get my vote,
>>> and I am pretty easy on suppliers typically.
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>>> On 5/14/2010 8:46 PM, Zack Clobes wrote:

>>>
>>>>
>>>> It looks like SparkFun is now carrying a Sarantel 18db active helix
>>>> antenna now for $23.
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>>>> http://www.sparkfun.com/commerce/product_info.php?products_id=9871
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>>>> Zack Clobes, W0ZC
>>>> Project: Traveler
>>>> www.projecttraveler.org <http://www.projecttraveler.org/>
>>>>
>>>>
>

7091. Re: [GPSL] Sarantel GPS Supplier

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 04:31:22 UTC
From: Mike Manes
Topic: 7061 Message: 7091

Bummer. Well, decent customer relations is a critical part of e-bidnizz
in crippled, service-oriented economy. Hope the customer service dood at
SparkFun has a decent day job!

73 de Mike W5VSI

On 5/16/2010 20:47, Michael Willett wrote:
>
> I have had zero problems with Sarantel. My problem was with 1 DOA
> Copernicus GPS. I bought 3 total over time, 2 worked fine, one was
> flaky. Sparkfun did not return emails or calls. I know some people like
> these guys, I was one of those. But no longer.
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7092. Re: Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 13:18:16 UTC
From: jjdemeyer
Topic: 7074 Message: 7092

I was thinking about this a little more. Presently, we use a single sounding to generate and evaluate predicted flight paths. Multiple soundings may be used (different geographic areas or different times) but the result provides confidence in a predicted path or landing site.

Could the present methods of prediction move to simplifying this work and review multiple sounding data? I see three methods for providing this.

The first method collects sounding data from different geographic regions. Here in Ohio, I might use Detroit and Pittsburg for an east-west flight. The prediction algorithm uses Detroit data for ascent and Pittsburg data for descent. The algorithm could be smart enough to monitor the flight duration and pick some point to switch between soundings.

The second method collects sounding data from different times near the target launch time, e.g., 12z and 15z. The prediction algorithm uses the 12z data for the ascent and the 15z data for the descent (again, flight duration could be a factor in choosing what data to use).

The last method also collects sounding data from different times near the target launch time. The algorithm provides a predicted flight path for each sounding. This method deomonstrates how the direction of the flight changes over a three hour period.

To answer my original question, prediction methods can be simplified to algorithms. In my experience, algorithms like this require time and data to validate. The data also is used to improve the algorithm over time.

Over the Summer, I hope to implement and evaluate some of these methods in the MapPoint add-in I spoke of earlier.

Other thoughts from the community?

Joe

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> I thought this also, but couldn't find it. normal,,
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> The Original Rolling Ball Clock
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7093. Re: [GPSL] Re: Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 13:58:04 UTC
From: Joe
Topic: 7074 Message: 7093

On 5/17/2010 8:18 AM, jjdemeyer wrote:
[snip]
> The second method collects sounding data from different times near the target launch time, e.g., 12z and 15z. The prediction algorithm uses the 12z data for the ascent and the 15z data for the descent (again, flight duration could be a factor in choosing what data to use).
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Say you planned on flying at 1500Z today. It's 1400Z now and you grab the freshest data possible. thinking this is fresh and accurate. well sadly no it's still data from yesterdays evenings sounding flight from 0000Z

This mornings flight just barely happened.1200Z launch. and all that. I have been keeping track of how long it takes for these soundings to propagate through the system. And it's been for the last month or so it has been taking between 5 to 6 hours for the data to up date.

You can see it happen. You grap numbers run a prediction and it changes like a mile or so. you keep doing this and it keeps changing but ever so slowly, the rubbering of data.

Then suddenly a BIG change happens where the predicted landing spot now jumps like 15 miles! Ok, new dataset just came through.

For me here in CDT land this happens usually between midnight and 1 AM, and in the mornings between Noon and 1 PM. So when you run numbers in the morning pre launch it is still numbers from the flight the evening before. and a LOT can happen in 12+ hours.

Thats why i was wondering why we are not using our very own sounding balloon data we are flying. can't get data anymore fresh that the beacon interval rate!

Joe WB9SBD
Near Space Sciences KB9KHO
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> --- In GPSL@yahoogroups.com, Joe<nss@...> wrote:
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7094. Re: Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 15:04:14 UTC
From: jjdemeyer
Topic: 7074 Message: 7094

Thanks for catching that! I agree that 15z has been 'processed' through the NWS models.

We have seen a delay in data as well. We typically wait for the noon data to generate a new flight path prediction so we have new sounding information. We have found that flight path predictions don't stablize (or become more consistant, maybe) until the week of a launch.

I see two questions in this thread. First, can we use the data from our flight to predict the flight path? Second, can we make a better prediction before the launch?

I saw Mike reply to the first questions and I think I've seen it work in BalloonTrack; I have implemented in my MapPoint add-in. In my add-in, it can update the predicted path with every new packet. In my tests, I have the predicted path updated every fifth packet. The answer to the first question is yes.

The second question may be just me reading more into the thread but I do find the prediction of the flight path interesting and want to explore possibilities to help make the prediction accurate. I agree that time and 'processing' will affect the outcome, and the predicted landing site would be a best guess at the general area of touchdown. When I'm planning a flight, a best guess might help determine accessibility to the landing site, provide the opportunity to determine alternative launch sites, and methods of deploying recovery teams. I'm sure there are more things to consider.

Joe

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> On 5/17/2010 8:18 AM, jjdemeyer wrote:
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> > The second method collects sounding data from different times near the target launch time, e.g., 12z and 15z. The prediction algorithm uses the 12z data for the ascent and the 15z data for the descent (again, flight duration could be a factor in choosing what data to use).
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7095. Re: [GPSL] Re: Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-17 16:28:35 UTC
From: HarryM
Topic: 7074 Message: 7095

Food for Thought

The method I use is to average all the predictions for the day prior to and the morning of, flight. Using UOW prediction data for several airports I will draw 5mi circles on the map in the LZ area. This works pretty good IF there are no weather systems crossing the area. If there is, the predictions will swing wildly as expected. The accuracy of predictions also depends on where you are in relation to the NWS launch sites. Here in Tulsa I am in a void of coverage for at least 100 mi. in all directions. If I launch prior to 1000hrs I find that the flight favors the 1500hr data prediction.

73 Harry ORB

7096. Re: [GPSL] Re: Prediction Programs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-18 21:40:53 UTC
From: Mike Manes
Topic: 7074 Message: 7096

On one flight a few years ago, we got that morning's RAOB data from a site less than 50 miles S of the predicted straight ESE forecast trajectory. Image our surprise when the balloon took off and headed straight SW for about 25 miles before executing a hard left at 30K' to finish up the rest of the ascent heading due E.

My point is that forecasts that use models are no more than best guesses, and even using nearby wind data just a few hours old isn't much better, especially if there's instability in the area. Further, the winds can (and will) change over the duration of a flight.

So it's probably a good idea to give any forecast landing a generous CEP (circular area probable), and even more margin if the isobars are real "twisty". And do expect that Murphy will work to put you down in the least desirable spot in your CEP. Folks who have made the record books for accuracy of landing vs. forecast prolly shoulda bought a lottery ticket that day!

73 de Mike W5VSI
CTO EOSS

On 5/17/2010 07:18, jjdemeyer wrote:
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>
>
> --- In GPSL@yahoogroups.com, Joe<nss@...> wrote:
>>
>> I thought this also, but couldn't find it. normal,,
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 5/16/2010 5:39 PM, Mike Manes wrote:
>>> I think Rick's WinBallTrak does include feature that extracts a new wind
>>> table from the real-time ascent data and uses it after burst to forecast
>>> a new descent trajectory and landing site. Rick typically runs this several
>>> times during descent and beacons out the new landing predict in APRS via
>>> the balloon's digi.
>>>
>>> 73 de Mike W5VSI
>>>
>>> On 5/15/2010 20:09, Joe wrote:
>>>
>>>> Ours was really weird Bill,
>>>>
>>>> We flew the exact same payload as last week. Just a bigger balloon. What
>>>> made no sense was tho the acent rate and path matched ventures perfectly
>>>> like withinn a mile real to predicted. but the flight down while the
>>>> final decent rate matched the numbers from last flight, and this one
>>>> post flight too. but the path of the decent wasn' even close at all to
>>>> the predicted one. and the balloon landed at least 20 miles downrange also.
>>>>
>>>> very strange.
>>>> Joe
>>>>
>>>> The Original Rolling Ball Clock
>>>> Idle Tyme
>>>> Idle-Tyme.com
>>>> http://www.idle-tyme.com
>>>>

>>>> On 5/15/2010 7:58 PM, wb8elk@... wrote:
>>>>
>>>>> Joe and all,
>>>>> Interesting you should ask about the three online prediction
>>>>> programs....I wish I had thought to compare these when the 15z data
>>>>> was still active so I could compare it against my actual flight
>>>>> path....but I will tell you that the Near Space Ventures Online
>>>>> Balloon Track was very accurate for today's flight, particularly in
>>>>> the parachute descent portion....the burst was a few miles further
>>>>> west of my prediction probably due to a small difference in the
>>>>> overall ascent rate...or possibly the Reynolds number knee effect
>>>>> (which by the way can be modeled in the PC version of Balloon Track).
>>>>> Online Balloon Track on the Nearspace Ventures website will give you
>>>>> the identical results of the PC version of Balloon Track since they
>>>>> use the same algorithms.
>>>>> The Univ of Wyoming predictor doesn't allow you to change the ascent
>>>>> or descent rates so unless you happen to match those same parameters
>>>>> in your flight, it will be not be usable for accurate predictions. As
>>>>> you can see from the attached map, it shows a landing site 10 miles
>>>>> further downrange than online balloon track and the CUSF predictor
>>>>> from the UK....70 miles instead of 60 miles. The actual track and
>>>>> parachute modeling seems good but unless they provide us with an
>>>>> option to adjust the ascent and descent rates, it's not usable. The
>>>>> MIT students recommend this in their balloon guide to the general
>>>>> public so I imagine folks just starting out will be losing some payloads.
>>>>> The Cambridge University (CUSF) online predictor is nicely done, but
>>>>> you'll have to convert to the metric system....the hardest part is to
>>>>> make sure you use meters/sec instead of feet/minute. Other than that,
>>>>> it also is quite accurate....the burst points are very close between
>>>>> the CUSF site and online Balloon Track....however, their parachute
>>>>> modeling puts the descent portion further downrange. Since the
>>>>> parachute descent was quite accurate on online Balloon Track's
>>>>> prediction today compared to my actual flight, I would that they may
>>>>> be modeling the parachute with a different coefficient of drag than is
>>>>> used in online Balloon Track....whether they are predicting a bit too
>>>>> long or not on the descent portion is something I'll have to compare
>>>>> during upcoming flights. Other than that, it's a very nicely done
>>>>> display and map.
>>>>> Attached are the three screenshots for today at 1800 UTC's wind
>>>>> model....1400 ft/min up 1000 ft/min dwn 69800 feet max. 39.82 -84.26
>>>>> - Bill WB8ELK
>>>>>
>>>>>
>>>>>
>>>>> -----Original Message-----
>>>>> From: Joe<nss@...>
>>>>> To: GPSL@yahoogroups.com
>>>>> Sent: Sat, May 15, 2010 5:52 pm
>>>>> Subject: [GPSL] Prediction Programs
>>>>>

>>>>> BallTrak
>>>>>
>>>>> The Near Space Ventures, and not someone ust told me about this one
>>>>>
>>>>> http://weather.uwyo.edu/polar/balloon_traj.html
>>>>>
>>>>> with such few fields to fill in, how is the accuracy? Anyone know?
>>>>>
>>>>> Joe
>>>>> --
>>>>>
>>>>> The Original Rolling Ball Clock
>>>>> Idle Tyme
>>>>> Idle-Tyme.com
>>>>> http://www.idle-tyme.com<http://www.idle-tyme.com/>
>>>>>
>>>
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7097. Balloon/Tracking article from G6UIM

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-22 12:17:37 UTC
From: Alan Sieg WB5RMG
Topic: 7088 Message: 7097

For anyone that isn't following the APRSISCE YahooGroup,
I'm cross-posting this item detailing Steve's project.
~~~~~~

1a. aprsis and balloon article
Posted by: "Steve" sbd64000(at)yahoo(dot)com
Date: Fri May 21, 2010 1:02 pm ((PDT))

Hi All

For those interested an article about the balloon on the link bellow.
APRSIS gets a mention on page 2 with a link to the group

http://www.theregister.co.uk/2010/05/21/paris_radio_kit/

Steve
G6UIM
~~~~~~

Enjoy /;^)
--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

7098. Canon Powershot A560 Camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-23 00:29:24 UTC
From: Joe
Topic: 7098 Message: 7098
Attachments: 1 described; binary payloads are missing from this source WARC

Ok, who out there know much about these cameras?

We flew one with the CHDK script a while ago. just taking pictures..
LOTS of pictures 16 GIG's of pictures and it worked perfectly.

Today we flew this camera in video mode. Because it is the one and only
camera that I have found so fat that can simultaneously record on the SD
card AND send live composite video out to the ATV transmitter for down
linking. AWESOME!!!!

I tested the camera many ways before flight.

Like this was with a 2 GIG card. Diddn't want to wait for over 2 hours
to see what happens when the memory card gets full. But with a 2 gig
card this only takes 17 minutes.

OK,

Test #1- What happens when card gets full while recording?

Nothing, it gets to the end, a message appears, and says memory card is
full. And stops recording, but the composite output keeps outputting.
And the video is fine and saved on the SD Card.
Very Good.

Test #2- What happens if the batteries die while recording?

Same thing. it gets to the point where the battery low indicator has
been flashing for a long time. and then stops recording. And the camera
shuts down. But the video file is fine and saved ok. But the camera does
shut down. so the composite video stops.

So this looks great for our flight.

But this is what happened during the flight..

Launch happened and everything is fine. 40 minutes into the flight. I
see the message (busy) this it does when it's saving the last of a file
and closing it. And after the busy went waay, it stopped recording but
was still acting as a camera for the ATV transmitter. so Ok, Not great
but still good images from thr ATV tranny.

Then about two minutes later the signal go to black. Transmitter is
still transmitting.. but it's transmitting a solid perfect black
picture. not one sparkie or nothing! GRRRR! This would be some
awesome clear video. oh well.

Flight finishes and payload is recovered, and upon opening it is noticed
that the camera is still runing. hmmmm? it has not shut down.
It was a 16 gig card and it only has used 4 gigs of it.

sooo anyone have any idea as to what happened? anyone willing to take a
guess?

a you tube vid of the first part of the fflight can be seen at
http://www.youtube.com/watch?v=h3nx_M-dfYw

Joe WB9SBD
Near Space Sciences, KB9KHO

--

The Original Rolling Ball Clock
Idle Tyme
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http://www.idle-tyme.com

7099. T-Shirt?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 01:40:28 UTC
From: L. Paul Verhage
Topic: 7099 Message: 7099

Any t-shirt ideas? I came up with this.

My balloon went to near space and all I got was this t-shirt.

--
Onwards and Upwards,
Paul

7100. And....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 01:41:25 UTC
From: L. Paul Verhage
Topic: 7100 Message: 7100

Nuts and Volts will send magazines. Can we get other magazines for welcome packages?

--
Onwards and Upwards,
Paul

7101. Re: [GPSL] And....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 01:43:38 UTC
From: Zack Clobes
Topic: 7100 Message: 7101

I put an inquiry into Circuit Cellar last week, but haven't heard anything yet.

Zack

On Sun, May 23, 2010 at 8:41 PM, L. Paul Verhage <nearsys@gmail.com> wrote:

>
>
> Nuts and Volts will send magazines. Can we get other magazines for welcome
> packages?
>
> --
> Onwards and Upwards,
> Paul
>
>

7102. Re: [GPSL] And....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 03:02:17 UTC
From: L. Paul Verhage
Topic: 7100 Message: 7102

Sounds good.

I just put in requests to Electronics Goldmine, All Electronics, and
Parallax.

Paul

On Sun, May 23, 2010 at 8:43 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I put an inquiry into Circuit Cellar last week, but haven't heard anything
> yet.
>
> Zack
>
>
> On Sun, May 23, 2010 at 8:41 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> Nuts and Volts will send magazines. Can we get other magazines for
>> welcome packages?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
>
>
>

--
Onwards and Upwards,
Paul

7103. RoboMolloon1 failure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 03:21:07 UTC
From: ccccrnr@aim.com
Topic: 7103 Message: 7103

if anyone was listening for KI4NHK-11 with comment RoboMolloon1 yesterday May 22, thanks

our 1st launch didn't get off the ground
filling the balloon it drug on the parking lot pavement where we were filling and launching which I think created a weakness or tare not noticed until we had dumped the entire 240ft^3 of Helium into the balloon
The tare found was about 1 to 1.5 inches after deflating
Also the balloon didn't have much if any positive lift for carrying the payload upward. We were hoping to get 1,000-1,400ft/min of climb. So we are wondering if the helium we got didn't contain the purity we were expecting (however with it all gone there isn't a way to test) so we'll be going though our calculation to make sure that the whole 5 ft cylinder should have provided plenty of lift (as expected) for out payload+radar reflector+parachute+balloon

Our electronics we prepared has APRS telemetry and a cross band repeater, and a video camera pointed down.
With this ready we thought we may try our relaunch at GPSL 2010, as there would be lots of experience to help us do better.

What does our group need to do to be able to come and launch at GPSL 2010??

Thanks,
Carlton
-.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..

7104. Re: [GPSL] RoboMolloon1 failure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 13:54:11 UTC
From: BASE
Topic: 7103 Message: 7104

Carlton,
Sorry that your first attempt was unsuccessful. Several of us have had similar experiences along the way. Personally, I had one balloon that we had to jettison after filling when a stabilizing hand accidentally poked a hole in the latex. A second balloon (a Kaysam with a little age) tore off the cardboard neck spreader just before the planned release. A third balloon, which we planned to float, separated from the float valve at launch. Failures are part of the game.
As for GPSL, all you have to do is come to Hutchinson. The talks, both formal and informal, on Friday are very good. There will be plenty of us there that can help you with the launch. I've never met a friendly group of folks. When our team showed up at Grand Island in 2007, and didn't even use the 2-meter band or have a ham license, Roger KC0MWM and everyone else welcomed us and provided lots of assistance. I hope you can come.
By the way, Did you use LiftWin to calculate your helium fill? 240 cu. ft. of helium should lift 8 pounds of payload with an ascent rate of almost 1100 ft/min. The tear may have been venting more helium that you realized.
Hope to see you in Kansas. By the way, we'll be rolling through St. Louis on Thursday, the 22nd sometime in mid to late morning. I always take the MO 370 shortcut through the bottoms and over the Missouri River. If you want to make it a convoy, please let me know.
Best wishes,Howard, KC9QBN

--- On Sun, 5/23/10, ccccrnr@... <ccccrnr@...> wrote:

From: ccccrnr@... <ccccrnr@...>
Subject: [GPSL] RoboMolloon1 failure
To: GPSL@yahoogroups.com
Date: Sunday, May 23, 2010, 11:21 PM

if anyone was listening for KI4NHK-11 with comment RoboMolloon1 yesterday May 22, thanks

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filling the balloon it drug on the parking lot pavement where we were filling and launching which I think created a weakness or tare not noticed until we had dumped the entire 240ft^3 of Helium into the balloon

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Our electronics we prepared has APRS telemetry and a cross band repeater, and a video camera pointed down.

With this ready we thought we may try our relaunch at GPSL 2010, as there would be lots of experience to help us do better.

What does our group need to do to be able to come and launch at GPSL 2010??

Thanks,

Carlton

-.- .. ....- -. .... -.-   .. -.   -----   .-.. .- -. -..

7105. Re: [GPSL] RoboMolloon1 failure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 14:04:53 UTC
From: Joe
Topic: 7103 Message: 7105
Attachments: 1 described; binary payloads are missing from this source WARC

I would suspect the gas also BIG time!!!
I can't imagine using 240 cuft of gas. unless HE is really that
inefficient at lifting. 240 cuft of H2 would give over 18 pounds of lift!
We have had three flights in the past three weeks on two tanks and the
second tank still has over 800 pounds of pressure in it.
Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/24/2010 8:54 AM, BASE wrote:
>
>
> Carlton,
>
> Sorry that your first attempt was unsuccessful. Several of us have
> had similar experiences along the way. Personally, I had one balloon
> that we had to jettison after filling when a stabilizing hand
> accidentally poked a hole in the latex. A second balloon (a Kaysam
> with a little age) tore off the cardboard neck spreader just before
> the planned release. A third balloon, which we planned to float,
> separated from the float valve at launch. Failures are part of the game.
>
> As for GPSL, all you have to do is come to Hutchinson. The talks,
> both formal and informal, on Friday are very good. There will be
> plenty of us there that can help you with the launch. I've never met
> a friendly group of folks. When our team showed up at Grand Island in
> 2007, and didn't even use the 2-meter band or have a ham license,
> Roger KC0MWM and everyone else welcomed us and provided lots of
> assistance. I hope you can come.
>
> By the way, Did you use LiftWin to calculate your helium fill? 240
> cu. ft. of helium should lift 8 pounds of payload with an ascent rate
> of almost 1100 ft/min. The tear may have been venting more helium
> that you realized.
>
> Hope to see you in Kansas. By the way, we'll be rolling through St.
> Louis on Thursday, the 22nd sometime in mid to late morning. I always
> take the MO 370 shortcut through the bottoms and over the Missouri
> River. If you want to make it a convoy, please let me know.
>

> Best wishes,
> Howard, KC9QBN
>
>
>
> --- On *Sun, 5/23/10, ccccrnr@... /<ccccrnr@...>/* wrote:
>
>
> From: ccccrnr@... <ccccrnr@...>
> Subject: [GPSL] RoboMolloon1 failure
> To: GPSL@yahoogroups.com
> Date: Sunday, May 23, 2010, 11:21 PM
>
> if anyone was listening for KI4NHK-11 with comment RoboMolloon1
> yesterday May 22, thanks
>
>
> our 1st launch didn't get off the ground
> filling the balloon it drug on the parking lot pavement where we
> were filling and launching which I think created a weakness or
> tare not noticed until we had dumped the entire 240ft^3 of Helium
> into the balloon
> The tare found was about 1 to 1.5 inches after deflating
> Also the balloon didn't have much if any positive lift for
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> min of climb. So we are wondering if the helium we got didn't
> contain the purity we were expecting (however with it all gone
> there isn't a way to test) so we'll be going though our
> calculation to make sure that the whole 5 ft cylinder should have
> provided plenty of lift (as expected) for out payload+radar
> reflector+parachute +balloon
>
>
> Our electronics we prepared has APRS telemetry and a cross band
> repeater, and a video camera pointed down.
> With this ready we thought we may try our relaunch at GPSL 2010,
> as there would be lots of experience to help us do better.
>
> What does our group need to do to be able to come and launch at
> GPSL 2010??
>
> Thanks,
> Carlton
> -.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..
>
>
>
>
>
>
>

7106. SpaceBits Project

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 14:35:17 UTC
From: Timothy Cathcart
Topic: 7106 Message: 7106

Just posting this for the group. Some of you may already be aware of this launch.

http://spacebits.eu

--
Timothy Cathcart
RM&T Engineer
Grand Rapids, MI

--
Timothy Cathcart
RM&T Engineer
Grand Rapids, MI

7107. Re: [GPSL] RoboMolloon1 failure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 14:35:52 UTC
From: Zack Clobes
Topic: 7103 Message: 7107
Attachments: 1 described; binary payloads are missing from this source WARC

Yes, you are welcome to come down for GPSL in July. I would ask that you please fill out the Participation Survey and the Flight Information survey on the superlaunch.org website.

That helps me plan for food, chairs, etc...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, May 24, 2010 at 9:04 AM, Joe <nss@...> wrote:

> I would suspect the gas also BIG time!!!
> I can't imagine using 240 cuft of gas. unless HE is really that inefficient
> at lifting. 240 cuft of H2 would give over 18 pounds of lift!
> We have had three flights in the past three weeks on two tanks and the
> second tank still has over 800 pounds of pressure in it.
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 5/24/2010 8:54 AM, BASE wrote:
>
> Carlton,
>
> Sorry that your first attempt was unsuccessful. Several of us have had
> similar experiences along the way. Personally, I had one balloon that we
> had to jettison after filling when a stabilizing hand accidentally poked a
> hole in the latex. A second balloon (a Kaysam with a little age) tore off
> the cardboard neck spreader just before the planned release. A third
> balloon, which we planned to float, separated from the float valve at
> launch. Failures are part of the game.
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> formal and informal, on Friday are very good. There will be plenty of us
> there that can help you with the launch. I've never met a friendly group of
> folks. When our team showed up at Grand Island in 2007, and didn't even use
> the 2-meter band or have a ham license, Roger KC0MWM and everyone else
> welcomed us and provided lots of assistance. I hope you can come.
>
> By the way, Did you use LiftWin to calculate your helium fill? 240 cu.

> ft. of helium should lift 8 pounds of payload with an ascent rate of almost
> 1100 ft/min. The tear may have been venting more helium that you realized.
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> Louis on Thursday, the 22nd sometime in mid to late morning. I always take
> the MO 370 shortcut through the bottoms and over the Missouri River. If you
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>
> Best wishes,
> Howard, KC9QBN
>
>
>
> --- On *Sun, 5/23/10, ccccrnr@... <ccccrnr@...> <ccccrnr@...>*wrote:
>
>
> From: ccccrnr@... <ccccrnr@...> <ccccrnr@...>
> Subject: [GPSL] RoboMolloon1 failure
> To: GPSL@yahoogroups.com
> Date: Sunday, May 23, 2010, 11:21 PM
>
>
>
> if anyone was listening for KI4NHK-11 with comment RoboMolloon1 yesterday
> May 22, thanks
>
> our 1st launch didn't get off the ground
> filling the balloon it drug on the parking lot pavement where we were
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> and a video camera pointed down.
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> would be lots of experience to help us do better.
>
> What does our group need to do to be able to come and launch at GPSL
> 2010??
>
> Thanks,
> Carlton

> -.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..
>
>
>
>

7108. Re: Hydrogen vs. Helium

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-24 17:36:57 UTC
From: BASE
Topic: 7103 Message: 7108
Attachments: 1 described; binary payloads are missing from this source WARC

I know this sort of information has been posted before, but I want to share it, especially for the newer members on the list.
Helium is not that much different from hydrogen as a lifting agent. This is because the lift force comes from the difference in the weight of the different gases. Hydrogen is a diatomic gas, and helium is monatomic.
Using the following values for densities (which I copied from http://www.elmhurst.edu/~chm/vchembook/imagespdb/123Adensitygas.html#table) :
Hydrogen gas 0.000089 grams/cubic centimeter 0.0056 pounds/cu. ftHelium gas 0.00018 grams/cubic centimeter 0.0112 pounds/cu. ftAir 0.00128 grams/cubic centimeter 0.0799 pounds/cu. ft
240 cu. ft of Hydrogen would weigh 1.34 pounds, 240 cu. ft of helium would weigh 2.67 pounds and, 240 cu. ft of air would weigh 19.2 pounds. The lift force is equal to the weight difference:
for Hydrogen 17.9 pounds (essentially as Joe says)for Helium 16.5 pounds
Now we have to lift the balloon, parachute and payloads. In our BASE flights, we have often approached the 12 pound limit for our flight string which if we fly it on a 1200 gram balloon yields a free lift of 2.27 pounds for hydrogen (ascent rate of 700 ft/min) and 1.02 pounds for helium (ascent rate of 500 ft/minute).
Burst altitude would be the same since the same volume of gas is put into the balloons. According to LiftWin the burst would be at 91 kft.
Of course, there are two related advantages to hydrogen. It is much less expensive and essentially in infinite supply since hydrogen can be readily extracted from a variety natural sources.
Howard
--- On Mon, 5/24/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] RoboMolloon1 failure
To: GPSL@yahoogroups.com
Cc: "BASE" <basedepauw@...>
Date: Monday, May 24, 2010, 10:04 AM

I would suspect the gas also BIG time!!!

I can't imagine using 240 cuft of gas. unless HE is really that
inefficient at lifting. 240 cuft of H2 would give over 18 pounds of
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second tank still has over 800 pounds of pressure in it.

Joe WB9SBD

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Clock

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Carlton,

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Hope to see you in Kansas. By the way, we'll be rolling through St. Louis on Thursday, the 22nd sometime in mid to late morning. I always take the MO 370 shortcut through the bottoms and over the Missouri River. If you want to make it a convoy, please let me know.

Best wishes,
Howard, KC9QBN

--- On Sun, 5/23/10, ccccrnr@... <ccccrnr@...> wrote:

From: ccccrnr@... <ccccrnr@...>

Subject: [GPSL] RoboMolloon1 failure

To: GPSL@yahoogroups.com

Date: Sunday, May 23, 2010, 11:21 PM

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until we had dumped the entire 240ft^3 of Helium into the balloon
The
tare found was about 1 to 1.5 inches after deflating
Also
the balloon didn't have much if any positive lift for carrying the
payload upward. We were hoping to get 1,000-1,400ft/ min of climb. So
we are wondering if the helium we got didn't contain the purity we were
expecting (however with it all gone there isn't a way to test) so we'll
be going though our calculation to make sure that the whole 5 ft
cylinder should have provided plenty of lift (as expected) for out
payload+radar reflector+parachute +balloon

Our
electronics we prepared has APRS telemetry and a cross band repeater,
and a video camera pointed down.
With
this ready we thought we may try our relaunch at GPSL 2010, as there
would be lots of experience to help us do better.

What
does our group need to do to be able to come and launch at GPSL 2010??

Thanks,
Carlton
-.-
 .. ....- -. .... -.-   .. -.   -----   .-.. .- -. -..

7109. Re: [GPSL] RoboMolloon1 failure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 13:15:21 UTC
From: L. Paul Verhage
Topic: 7103 Message: 7109
Attachments: 1 described; binary payloads are missing from this source WARC

I'd still like to pay you folks a visit. I tried visiting St. Louis in
March, but the weather didn't cooperate. Perhaps we can work out something
before GPSL and run through the steps I use to launch a balloon.

Paul

On Mon, May 24, 2010 at 9:35 AM, Zack Clobes <zclobes@...> wrote:

>
>
> Yes, you are welcome to come down for GPSL in July. I would ask that you
> please fill out the Participation Survey and the Flight Information survey
> on the superlaunch.org website.
>
> That helps me plan for food, chairs, etc...
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Mon, May 24, 2010 at 9:04 AM, Joe <nss@...> wrote:
>
>> I would suspect the gas also BIG time!!!
>> I can't imagine using 240 cuft of gas. unless HE is really that
>> inefficient at lifting. 240 cuft of H2 would give over 18 pounds of lift!
>> We have had three flights in the past three weeks on two tanks and the
>> second tank still has over 800 pounds of pressure in it.
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 5/24/2010 8:54 AM, BASE wrote:
>>
>> Carlton,
>>
>> Sorry that your first attempt was unsuccessful. Several of us have had
>> similar experiences along the way. Personally, I had one balloon that we
>> had to jettison after filling when a stabilizing hand accidentally poked a
>> hole in the latex. A second balloon (a Kaysam with a little age) tore off

>> the cardboard neck spreader just before the planned release. A third
>> balloon, which we planned to float, separated from the float valve at
>> launch. Failures are part of the game.
>>
>> As for GPSL, all you have to do is come to Hutchinson. The talks, both
>> formal and informal, on Friday are very good. There will be plenty of us
>> there that can help you with the launch. I've never met a friendly group of
>> folks. When our team showed up at Grand Island in 2007, and didn't even use
>> the 2-meter band or have a ham license, Roger KC0MWM and everyone else
>> welcomed us and provided lots of assistance. I hope you can come.
>>
>> By the way, Did you use LiftWin to calculate your helium fill? 240 cu.
>> ft. of helium should lift 8 pounds of payload with an ascent rate of almost
>> 1100 ft/min. The tear may have been venting more helium that you realized.
>>
>> Hope to see you in Kansas. By the way, we'll be rolling through St. Louis
>> on Thursday, the 22nd sometime in mid to late morning. I always take the MO
>> 370 shortcut through the bottoms and over the Missouri River. If you want to
>> make it a convoy, please let me know.
>>
>> Best wishes,
>> Howard, KC9QBN
>>
>>
>>
>> --- On *Sun, 5/23/10, ccccrnr@... <ccccrnr@...> <ccccrnr@...>
>> * wrote:
>>
>>
>> From: ccccrnr@... <ccccrnr@...> <ccccrnr@...>
>> Subject: [GPSL] RoboMolloon1 failure
>> To: GPSL@yahoogroups.com
>> Date: Sunday, May 23, 2010, 11:21 PM
>>
>>
>>
>> if anyone was listening for KI4NHK-11 with comment RoboMolloon1 yesterday
>> May 22, thanks
>>
>> our 1st launch didn't get off the ground
>> filling the balloon it drug on the parking lot pavement where we were
>> filling and launching which I think created a weakness or tare not noticed
>> until we had dumped the entire 240ft^3 of Helium into the balloon
>> The tare found was about 1 to 1.5 inches after deflating
>> Also the balloon didn't have much if any positive lift for carrying the
>> payload upward. We were hoping to get 1,000-1,400ft/ min of climb. So we
>> are wondering if the helium we got didn't contain the purity we were
>> expecting (however with it all gone there isn't a way to test) so we'll be
>> going though our calculation to make sure that the whole 5 ft cylinder
>> should have provided plenty of lift (as expected) for out payload+radar

>> reflector+parachute +balloon
>>
>>
>> Our electronics we prepared has APRS telemetry and a cross band repeater,
>> and a video camera pointed down.
>> With this ready we thought we may try our relaunch at GPSL 2010, as there
>> would be lots of experience to help us do better.
>>
>> What does our group need to do to be able to come and launch at GPSL
>> 2010??
>>
>> Thanks,
>> Carlton
>> -.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..
>>
>>
>>
>>
>
>
>
>

--
Onwards and Upwards,
Paul

7110. Door Prizes

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 14:37:59 UTC
From: L. Paul Verhage
Topic: 7110 Message: 7110

We're receiving door prizes from Parallax (www.parallax.com). Can we add them to the Super Launch webpage as a sponsor? Please add Nuts and Volts magazine also, they are giving us magazines for our welcome packets.

Zack, does the city of Hutch have a vistors bureau? Perhaps they could give us discount tickets or such.

--
Onwards and Upwards,
Paul

7111. launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 17:39:12 UTC
From: Joe
Topic: 7111 Message: 7111
Attachments: 1 described; binary payloads are missing from this source WARC

Hi All.

I'm trying to find a picture of a balloon launch where there are many
many small seperate payloads on the line. anyone have one?

Joe
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

7112. RE: [GPSL] launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 18:27:24 UTC
From: Rick von Glahn
Topic: 7111 Message: 7112
Attachments: 1 described; binary payloads are missing from this source WARC

I have to head out now but if you don't find any, there are a bunch of them (photos of LOTS of small payloads) at the eoss site. I'll check back when I return home later tonight and see if you had any luck and if not send some links.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Tuesday, May 25, 2010 11:39 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] launch picture

Hi All.

I'm trying to find a picture of a balloon launch where there are many many small seperate payloads on the line. anyone have one?

Joe

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

7113. Re: [GPSL] launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 19:01:19 UTC
From: Joe
Topic: 7111 Message: 7113
Attachments: 2 described; binary payloads are missing from this source WARC

Thats where i did go first! he he he YUP i remember you all doing
payloads that look like that. But spent about 1/2 hour looking around
and like found every type of flight train but that he he he,,

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/25/2010 1:27 PM, Rick von Glahn wrote:
>
>
> I have to head out now but if you don't find any, there are a bunch of
> them (photos of LOTS of small payloads) at the eoss site. I'll check
> back when I return home later tonight and see if you had any luck and
> if not send some links.
>
> 73 -- Rick, N0KKZ
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *Joe
> *Sent:* Tuesday, May 25, 2010 11:39 AM
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] launch picture
>
> Hi All.
>
> I'm trying to find a picture of a balloon launch where there are many
> many small seperate payloads on the line. anyone have one?
>
> Joe
>
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
>
>

7114. Re: [GPSL] launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 18:23:05 UTC
From: Mark Conner
Topic: 7111 Message: 7114
Attachments: 1 described; binary payloads are missing from this source WARC

Joe - see if any of these will work for you:

http://picasaweb.google.com/mconner1/NSTAR09BGroundPhotos#5357650998092544194
http://picasaweb.google.com/mconner1/NSTAR09BGroundPhotos#5357651004259123090
http://picasaweb.google.com/mconner1/NSTAR07BGroundPhotos#5190061800084048594

73 de Mark N9XTN

On Tue, May 25, 2010 at 12:39, Joe <nss@...> wrote:

> Hi All.
>
> I'm trying to find a picture of a balloon launch where there are many many
> small seperate payloads on the line. anyone have one?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

7115. Re: [GPSL] launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 19:51:29 UTC
From: Joe
Topic: 7111 Message: 7115
Attachments: 2 described; binary payloads are missing from this source WARC

that will do

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/25/2010 1:23 PM, Mark Conner wrote:
>
>
> Joe - see if any of these will work for you:
>
> http://picasaweb.google.com/mconner1/NSTAR09BGroundPhotos#5357650998092544194
> http://picasaweb.google.com/mconner1/NSTAR09BGroundPhotos#5357651004259123090
> http://picasaweb.google.com/mconner1/NSTAR07BGroundPhotos#5190061800084048594
>
> 73 de Mark N9XTN
>
> On Tue, May 25, 2010 at 12:39, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> Hi All.
>
> I'm trying to find a picture of a balloon launch where there are
> many many small seperate payloads on the line. anyone have one?
>
> Joe
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
>
>
>

7116. RE: [GPSL] launch picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-25 23:29:11 UTC
From: Nick Hanks
Topic: 7111 Message: 7116
Attachments: 1 described; binary payloads are missing from this source WARC

Will this work?

Nick

NØLP

EOSS

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Tuesday, May 25, 2010 11:39
To: GPSL@yahoogroups.com
Subject: [GPSL] launch picture

Hi All.

I'm trying to find a picture of a balloon launch where there are many many
small seperate payloads on the line. anyone have one?

Joe

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

7117. NASA student balloon to fly Weds from OH with streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-26 03:11:14 UTC
From: wb8elk@aol.com
Topic: 7117 Message: 7117

144.39 APRS: WB8ELK-10
144.34 APRS: NA8SA-4

Predicted landing zone is Willard, Ohio

Launchsite: 41.0785 -82.4038

- Bill WB8ELK

Streaming video: www.batc.tv select Members Streams then click on WB8ELK

7118. NASA balloon liftoff time for Weds morning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-26 03:18:53 UTC
From: wb8elk@aol.com
Topic: 7118 Message: 7118

9:30 am EDT from a park in New London, Ohio

144.39 APRS: WB8ELK-10
144.34 APRS: NA8SA-4

Streaming video: www.batc.tv select Members Streams ... click on WB8ELK

7119. NYT AND CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-27 02:26:00 UTC
From: Pete Lilja
Topic: 7119 Message: 7119

Well, they said tomorrow but it's there tonight.

A few months ago I had mentioned here the NY Times cold emailing me about CHDK and the HAB photos. The article is here:

http://www.nytimes.com/2010/05/27/technology/personaltech/27basics.html?8dpc

Pete
KC0GPB

7120. Re: [GPSL] NYT AND CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-27 13:09:21 UTC
From: L. Paul Verhage
Topic: 7119 Message: 7120

Congrats and beautiful picture on the website.

I'm trying the USB remote shutter and integrating it into my newest flight computer.

Paul

On Wed, May 26, 2010 at 9:26 PM, Pete Lilja <plilja@...> wrote:

>
>
> Well, they said tomorrow but it's there tonight.
>
> A few months ago I had mentioned here the NY Times cold emailing me about
> CHDK and the HAB photos. The article is here:
>
>
> http://www.nytimes.com/2010/05/27/technology/personaltech/27basics.html?8dpc
>
> Pete
> KC0GPB
>
>
>

--
Onwards and Upwards,
Paul

7121. Re: [GPSL] NYT AND CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-27 13:18:28 UTC
From: James Hannon
Topic: 7119 Message: 7121

You always gotta wonder about news articles. The picture caption says "Pete Lilja of Cedar Rapids, Iowa". In the article it says "Mr. Lilja, of Cedar Falls" and "When he is not fighting fires in Waterloo, Iowa" So Pete where do you live?Jim Hannon of northern Linn Co. Iowahttp://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Pete Lilja" <plilja@...>
Sent 5/26/2010 9:26:00 PM
To: "gpsl" <GPSL@yahoogroups.com>, Balloon_Sked@yahoogroups.com
Subject: [GPSL] NYT AND CHDKWell, they said tomorrow but it's there tonight.
A few months ago I had mentioned here the NY Times cold emailing me about CHDK and the HAB photos. The article is
here:http://www.nytimes.com/2010/05/27/technology/personaltech/27basics.html?8dpc
Pete
KC0GPB

7122. Re: [GPSL] NYT AND CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-27 13:59:06 UTC
From: Pete Lilja
Topic: 7119 Message: 7122

My wife asked the same thing, Jim! Actually the picture caption is wrong.
I live in Cedar Falls and work in Waterloo.

So, another Iowa HABist, Jim? We've landed balloons in Buchanan Co. near
Independence.

Pete
KC0GPB

On Thu, May 27, 2010 at 8:18 AM, James Hannon <jmhannon@...> wrote:

>
>
> You always gotta wonder about news articles. The picture caption says "Pete
> Lilja of Cedar Rapids, Iowa". In the article it says "Mr. Lilja, of Cedar
> Falls" and "When he is not fighting fires in Waterloo, Iowa" So Pete where
> do you live?
>
> Jim Hannon of northern Linn Co. Iowa
>
>
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
> -----Original Message-----
> From: "Pete Lilja" <plilja@...>
> Sent 5/26/2010 9:26:00 PM
> To: "gpsl" <GPSL@yahoogroups.com>, Balloon_Sked@yahoogroups.com
> Subject: [GPSL] NYT AND CHDK
>
> Well, they said tomorrow but it's there tonight.
>
> A few months ago I had mentioned here the NY Times cold emailing me about
> CHDK and the HAB photos. The article is here:
>
>
> http://www.nytimes.com/2010/05/27/technology/personaltech/27basics.html?8dpc
>
> Pete
> KC0GPB
>
>

7123. Re: [GPSL] NYT AND CHDK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-27 16:09:10 UTC
From: James Hannon
Topic: 7119 Message: 7123

Right now just an armchair HABist. I did a lot of fox hunting in years past but right now the thought of driving halfway across the state chasing a balloon does not sound like fun. I am mainly interested in the science and equipment used. I have some ideas for experiments I would like to fly.
I will be setting up an antenna and radio for 2 meters so I can listen to any flights that happen to be in range.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Pete Lilja" <plilja@...>
Sent 5/27/2010 8:59:06 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] NYT AND CHDKMy wife asked the same thing, Jim! Actually the picture caption is wrong. I live in Cedar Falls and work in Waterloo.
So, another Iowa HABist, Jim? We've landed balloons in Buchanan Co. near Independence.
Pete
KC0GPBOn Thu, May 27, 2010 at 8:18 AM, James Hannon <jmhannon@...> wrote:You always gotta wonder about news articles. The picture caption says "Pete Lilja of Cedar Rapids, Iowa". In the article it says "Mr. Lilja, of Cedar Falls" and "When he is not fighting fires in Waterloo, Iowa" So Pete where do you live?Jim Hannon of northern Linn Co. Iowahttp://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Pete Lilja" <plilja@...>
Sent 5/26/2010 9:26:00 PM
To: "gpsl" <GPSL@yahoogroups.com>, Balloon_Sked@yahoogroups.com
Subject: [GPSL] NYT AND CHDK
Well, they said tomorrow but it's there tonight.
A few months ago I had mentioned here the NY Times cold emailing me about CHDK and the HAB photos. The article is here:http://www.nytimes.com/2010/05/27/technology/personaltech/27basics.html?8dpc
Pete
KC0GPB

7124. AHAB Help In LA

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-28 12:12:56 UTC
From: Michael Willett
Topic: 7124 Message: 7124

Below is an email I received via our web page regarding help with an AHAB launch in the LA area.

Recently, I tracked a GPS test launch in that area that went near Catalina island and then near downtown LA, but do not recall the group's name or contact information.

Please contact Debbie, noted below and copied on this email about help with a possible June 7th launch for a TV spot.

--Michael K5NOT

Hi Debbie!

I do know there have been some balloons launched in the LA area. No
doubt north as well.

Where are you located?

I can put a note on the balloon groups page and see if anyone pops up
near you.

--Michael
K5NOT

On 5/27/2010 8:22 PM,dmtyner@... wrote:

> > Hello,
> >
> > I recently came across your website and was wondering if you knew of
> > an organization or ham operators who launch space balloons in the
> > State of California? Thank you for your time.
> >
> > Best,
> > Debbie
> >
> >
>

I'm actually in Los Angeles. We are needing someone with experience and expertise in launching a near space balloon. We are doing a television show segment on the topic and need an expert to bounce some ideas off of.

We are looking at a June 7th launch date.

Any help would be greatly appreciated.

They reach me at my email:
Dmtyner@...

Thank you!

Debbie Tyner

7125. First English Channel crossing by a balloon cluster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-28 16:52:11 UTC
From: n1ltv
Topic: 7125 Message: 7125

http://www.telegraph.co.uk/news/newstopics/howaboutthat/7776724/Adventurer-crosses-English-Channel-using-helium-balloons.html

7126. Re: [GPSL] AHAB Help In LA

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-28 19:11:21 UTC
From: Mark Conner
Topic: 7124 Message: 7126

The LA-area flight was by Scott Miller N1VG. He can be reached at
scott@... and his (non-commercial) website is http://n1vg.net.

73 de Mark N9XTN

On Fri, May 28, 2010 at 08:12, Michael Willett <mw@...> wrote:

> Below is an email I received via our web page regarding help with an AHAB
> launch in the LA area.
>
> Recently, I tracked a GPS test launch in that area that went near Catalina
> island and then near downtown LA, but do not recall the group's name or
> contact information.
>
> Please contact Debbie, noted below and copied on this email about help with
> a possible June 7th launch for a TV spot.
>
> --Michael K5NOT
>
>
> Hi Debbie!
>
> I do know there have been some balloons launched in the LA area. No
> doubt north as well.
>
> Where are you located?
>
> I can put a note on the balloon groups page and see if anyone pops up
> near you.
>
> --Michael
> K5NOT
>
>
> On 5/27/2010 8:22 PM,dmtyner@... wrote:
>
> > > Hello,
> > >
> > > I recently came across your website and was wondering if you knew of
> > > an organization or ham operators who launch space balloons in the
> > > State of California? Thank you for your time.
> > >
> > > Best,
> > > Debbie
> > >
> > >

> >
>
>
> I'm actually in Los Angeles. We are needing someone with experience
> and expertise in launching a near space balloon. We are doing a television
> show segment on the topic and need an expert to bounce some ideas off of.
>
> We are looking at a June 7th launch date.
>
> Any help would be greatly appreciated.
>
> They reach me at my email:
> Dmtyner@...
>
> Thank you!
>
> Debbie Tyner
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

7127. Re: [GPSL] First English Channel crossing by a balloon cluster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-29 03:12:16 UTC
From: Mike Manes
Topic: 7125 Message: 7127

Thanks, Hank,
Those sure don't look like any latex or PE balloon I've worked with.
They appear to be coated fabric - perhaps like those used for advertising?
Heavy but reusable. Guess he must have vent valves to dump gas for descent.
73 de Mike W5VSI

On 5/28/2010 10:52, n1ltv wrote:
> http://www.telegraph.co.uk/news/newstopics/howaboutthat/7776724/Adventurer-crosses-English-Channel-using-helium-balloons.html
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7128. Re: First English Channel crossing by a balloon cluster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-29 07:11:24 UTC
From: n1ltv
Topic: 7125 Message: 7128

Mike,

I especially think you and the other pilots will like digging
through Jonathan's cluster balloon website:

http://www.clusterballoon.com/index.asp

The whole website is just awesome. Beautifully done and
really chock full of content, both in words and in pictures.

This is just one account I've been able to go through
(beside the channel one which really is unfinished):

Spirit Cluster nightime North Carolina flight

http://www.clusterballoon.com/SpiritCluster.asp

Can you imagine spending an entire night hanging from
nylon straps? Notice the references to hams and APRS.

Wouldn't it just be amazing to have Jonathan attend GPSL
2010?

Hank

7129. cluster balloon English Channel- details

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-29 14:10:35 UTC
From: Mark Caviezel
Topic: 7129 Message: 7129

Indeed, most of Trappe's balloons are extensible 'chloroprene' which looks, feels, and handles exactly like latex. Some other balloons are PVC, still extensible, but not as much. The PVC balloons can handle the expansion from surface to 7 or 10k feet MSL. The chloroprene balloons are good to over 60k feet.
One architecture that he has used in the past is one K bottle per choroprene balloon. Those balloons are about 630 grams, very similar to latex balloons. That yields about 12 pounds net lift per cell.
Vent valves have been experimented with, but (very predictably, Jonathan had to figure this out on his own) far too ineffective for effective flight control. His normal flight controls are vernier water ballasting and cell cut away. A normal 12 lb net lift big cell is a large chunk of lift to loose, sometimes he adds some smaller cells, too.

I've conducted flight performance analysis on a couple of his flights- twelve pounds of free lift (positive or negative) yields about 200 fpm climb or sink.

His initial departure at the Blueberry festival flight was less than 50 fpm, accelerating appreciably throughout the morning because of solar heating of the cells.

Trappe has shown that the cluster balloon vehicle is indeed a controllable aircraft. I know the rest of his year is booked but he is slated to appear and fly at the EAA event in Oshkosh, WI this summer.

best

- Mark

7130. cluster ballooning English channel- details

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-29 14:15:55 UTC
From: Mark Caviezel
Topic: 7130 Message: 7130

Indeed, most of Trappe's balloons are extensible 'chloroprene' which looks, feels, and handles exactly like latex. Some other balloons are PVC, still extensible, but not as much. The PVC balloons can handle the expansion from surface to 7 or 10k feet MSL or more. The chloroprene balloons are good to over 60k feet.
One architecture that he has used in the past is one K bottle per choroprene balloon. Those balloons are about 630 grams, very similar to latex balloons. That yields about 12 pounds net lift per cell.
Vent valves have been experimented with, but (very predictably, Jonathan had to figure this out on his own) far too ineffective for effective flight control. His normal flight controls are vernier water ballasting and cell cut away. A normal 12 lb net lift big cell is a large chunk of lift to loose, sometimes he adds some smaller cells, too.

I've conducted flight performance analysis on a couple of his flights- twelve pounds of free lift (positive or negative) yields about 200 fpm climb or sink.

His initial departure at the Blueberry festival flight was less than 50 fpm, accelerating appreciably throughout the morning because of solar heating of the cells.

Trappe has shown that the cluster balloon vehicle is indeed a controllable aircraft. I know the rest of his year is booked but he is slated to appear and fly at the EAA event in Oshkosh, WI this summer.

best

- Mark

7131. Re: [GPSL] cluster balloon English Channel- details

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-29 17:14:05 UTC
From: Mike Manes
Topic: 7129 Message: 7131

Hi Mark,

Well, manned gas ballooning has been around for about a century, but Trappe's twist on it is to use multiple, cheap bags in lieu of just one biggie. I suspect that the multi-bag configuration may suffer from a lower bag weight to gas lift ratio, however. But it DOES look a LOT kewler than a single bag.

73 de Mike W5VSI

On 5/29/2010 08:10, Mark Caviezel wrote:
> Indeed, most of Trappe's balloons are extensible 'chloroprene' which looks, feels, and handles exactly like latex. Some other balloons are PVC, still extensible, but not as much. The PVC balloons can handle the expansion from surface to 7 or 10k feet MSL. The chloroprene balloons are good to over 60k feet.
> One architecture that he has used in the past is one K bottle per choroprene balloon. Those balloons are about 630 grams, very similar to latex balloons. That yields about 12 pounds net lift per cell.
> Vent valves have been experimented with, but (very predictably, Jonathan had to figure this out on his own) far too ineffective for effective flight control. His normal flight controls are vernier water ballasting and cell cut away. A normal 12 lb net lift big cell is a large chunk of lift to loose, sometimes he adds some smaller cells, too.
>
> I've conducted flight performance analysis on a couple of his flights- twelve pounds of free lift (positive or negative) yields about 200 fpm climb or sink.
>
> His initial departure at the Blueberry festival flight was less than 50 fpm, accelerating appreciably throughout the morning because of solar heating of the cells.
>
> Trappe has shown that the cluster balloon vehicle is indeed a controllable aircraft. I know the rest of his year is booked but he is slated to appear and fly at the EAA event in Oshkosh, WI this summer.
>
> best
>
> - Mark
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7132. Re: cluster ballooning English channel- details

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-30 02:45:50 UTC
From: n1ltv
Topic: 7130 Message: 7132

Mark,

Thanks for supplying many of the very interesting details that
were not on the extensive website.

> Indeed, most of Trappe's balloons are extensible 'chloroprene'
> which looks, feels, and handles exactly like latex. Some other
> balloons are PVC, still extensible, but not as much.

I'm quite interested in knowing the sources of both of these
variety of balloons. Is at least one of these types you've
mentioned the type used in advertising?

Do you have any cost figures for the sizes Jonathan is using?

> I know the rest of his year is booked but he is slated to appear
> and fly at the EAA event in Oshkosh, WI this summer.

Well, that will make him a pretty well known figure among at least
the experimental aircraft community in the US. Should also lead
to some more national video and print coverage of his exploits.

Surely I would think it appropriate to let him know about
GPSL 2010 and specifically invite him to it, along with any
of his gear. If he's not available this year, try to get
him next year.

It's surprising he hasn't mentioned more here by us
balloonatics, especially with the amateur radio connection.
Incidentally, I've now read the small 3 day flurry of Trappe
messages on this list from February of this year.

Hank

7133. Re: cluster ballooning English channel- details

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-30 03:53:49 UTC
From: n1ltv
Topic: 7130 Message: 7133

> It's surprising he hasn't mentioned more here by us
> balloonatics, especially with the amateur radio connection.
> Incidentally, I've now read the small 3 day flurry of Trappe
> messages on this list from February of this year.

February of *last* year.

7134. further details- cluster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-30 13:44:56 UTC
From: Mark Caviezel
Topic: 7134 Message: 7134

Well, manned gas ballooning has been around for about a century,
>>>> Mike, sometimes I am not sure where you get your information from. Manned gas ballooning had been around for about a century by 1883, as the first manned gas balloon flight was conducted on December 1, 1783. Interestingly, this was less than two weeks after the first hot air balloon flight in November 1783. We are well into the third century of manned ballooning. Although hot air was the first technology for manned flight, gas ballooning was the dominant technology until the 1960's.

I
suspect that the multi-bag configuration may suffer from a lower bag weight
to gas lift ratio, however. But it DOES look a LOT kewler than a single bag.
>>> Your suspicion, although not unreasonable, is unfounded. For the chloroprene cells, 14.43 lbs gross lift in a 1.4 lb cell yield 90.4% net lift to gross lift. A conventional 1000 cubic meter gas balloon envelope weighs about 450 pounds, achieving a net lift to gross lift ratio of 83%. And that's at sea level. The conventional gas balloon will continuously vent as it ascends, eroding the ratio. So, Trappe's system is actually pretty high performance compared to other technologies.

I'm pretty sure Trappe gets his chloroprene balloons from
http://www.balloonsdirect.com/weather-balloons.htm
and his PVC or vinyl balloons were custom made by Tracy Barnes.
The PVC balloons are relatively expensive (reportedly about $1k each) but feature incredibly low permeability and are re-usable. The chloroprene balloons are usually single use.

Cluster ballooning is no-where close to new. Don Piccard's father conducted a cluster flight in 1937, Don himself has done multiple flights as early as 1958 and as recently as 2003.

best

- Mark

7135. Re: [GPSL] further details- cluster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-30 22:34:10 UTC
From: Mike Manes
Topic: 7134 Message: 7135

Mark,

I was referring to the US Army's rather common use of H2 balloons during WWI, not the sporadic experiments prior to then.

On 5/30/2010 07:44, Mark Caviezel wrote:
> Well, manned gas ballooning has been around for about a century,

>> Mike, sometimes I am not sure where you get your information from. Manned gas ballooning had been around for about a century by 1883, as the first manned gas balloon flight was conducted on December 1, 1783. Interestingly, this was less than two weeks after the first hot air balloon flight in November 1783. We are well into the third century of manned ballooning. Although hot air was the first technology for manned flight, gas ballooning was the dominant technology until the 1960's.

> I
> suspect that the multi-bag configuration may suffer from a lower bag weight
> to gas lift ratio, however. But it DOES look a LOT kewler than a single bag.

>> Your suspicion, although not unreasonable, is unfounded. For the chloroprene cells, 14.43 lbs gross lift in a 1.4 lb cell yield 90.4% net lift to gross lift. A conventional 1000 cubic meter gas balloon envelope weighs about 450 pounds, achieving a net lift to gross lift ratio of 83%. And that's at sea level. The conventional gas balloon will continuously vent as it ascends, eroding the ratio. So, Trappe's system is actually pretty high performance compared to other technologies.

My analysis was based on simple geometry, comparing the surface area of single vs. multiple spheres having the same total volume, assuming equal skin densities and configurations.

>
> I'm pretty sure Trappe gets his chloroprene balloons from
> http://www.balloonsdirect.com/weather-balloons.htm
> and his PVC or vinyl balloons were custom made by Tracy Barnes.
> The PVC balloons are relatively expensive (reportedly about $1k each) but feature incredibly low permeability and are re-usable. The chloroprene balloons are usually single use.
>
> Cluster ballooning is no-where close to new. Don Piccard's father conducted a cluster flight in 1937, Don himself has done multiple flights as early as 1958 and as recently as 2003.
>
>
> best
>

> - Mark

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7136. manned ballooning history and heritage, skin thickness

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-31 17:26:37 UTC
From: Mark Caviezel
Topic: 7136 Message: 7136

I was referring to the US Army's rather common use of H2 balloons during
WWI, not the sporadic experiments prior to then.

>>>> Let's not forget that an organized, annual international competition for sport ballooning started in 1906 (and it was not the first). In his book, 'My Airships', aviation pioneer Alberto Santos Dumont describes a rather mature ballooning industry in Paris in the 1890's, with multiple pilots offering rides and flight lessons to those able to pay for them. Many aeronauts of the 1700's and 1800's made hundreds of flights. A number of pilots made a real career of flying balloons between 1783 and the beginning of WW1. Given these documented, historical facts, I'm not sure that it is accurate to describe this very significant amount of aeronautical knowledge as merely 'sporadic experiments.'

My analysis was based on simple geometry, comparing the surface area of
single vs. multiple spheres having the same total volume, assuming equal
skin densities and configurations.
>>>>> Ah, understood. But in exactly the same way that
the skin thickness on a B757 is far greater than a Cessna 152, you'll find that a conventional gas balloon has a far greater areal density than a 630 gram chloroprene cluster balloon cell.

best

- Mark

7137. NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-05-31 21:42:57 UTC
From: Joe
Topic: 7103 Message: 7137

Afternoon All,

Well, NSS-50 is in the Bag.

It was pretty interesting, we still again learned some new stuff. Even after 50 flights still keep learning new stuff.

One thing we learned this flight is the upper winds are weird! Sometimes!

We flew our usual stable flight train for a Video flight. long flight train and stabilization arms.

All performed as usual. at low altitudes. but once it got like above 80K it was really strange. The payload was like making a large cone circle. sometimes as large as like 45 degrees! Then other times is was a side to side swing also to these extremes.

While this was interesting, what i found interesting was the amount of time it would stay at the extremes! like if the whole flight train is tilted to a 45 deg angle, and how long it stayed that way weird.

enjoy!

http://www.youtube.com/watch?v=YHAr7F1w-aE

Joe WB9SBD
Near Space Sciences KB9KHO

7138. Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 01:51:44 UTC
From: Mike Manes
Topic: 7103 Message: 7138

Hi Joe,

Hey, nice video! Great to work with the Scouts, eh? And kewl beans
getting the local TV coverage! The last one of ours that hit the toob
was our disastrous first plastic balloon launch - high winds, and we hung
onto the payload until the balloon was downwind - payload slid across the
parking lot and smacked into a snow bank, jamming the camera film advance
motor, which drained our main payload and primary beacon batteries. Long
recovery, just trying to get close enough to the 10m beacon to hear it.

Re the long flight string: I think at best it slows down the period
of the sway, just like a long pendulum on a clock does. But it could
also create more sway than a short line going thru layers of wind shear,
since the balloon and payload will be seeing larger differences in wind
speed. Those inertial arms do a FB job of slowing down the spin, however,
especially on a payload that's aerodynamically symmetrical in the horizontal
plane (no weathervane effects).

How'd the descent video look?

73 de Mike

On 5/31/2010 15:42, Joe wrote:
> Afternoon All,
>
> Well, NSS-50 is in the Bag.
>
> It was pretty interesting, we still again learned some new stuff. Even
> after 50 flights still keep learning new stuff.
>
> One thing we learned this flight is the upper winds are weird! Sometimes!
>
> We flew our usual stable flight train for a Video flight. long flight
> train and stabilization arms.
>
> All performed as usual. at low altitudes. but once it got like above
> 80K it was really strange. The payload was like making a large cone
> circle. sometimes as large as like 45 degrees! Then other times is was
> a side to side swing also to these extremes.
>
> While this was interesting, what i found interesting was the amount of
> time it would stay at the extremes! like if the whole flight train is
> tilted to a 45 deg angle, and how long it stayed that way weird.
>
> enjoy!
>

> http://www.youtube.com/watch?v=YHAr7F1w-aE
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7139. Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 02:05:08 UTC
From: Joe
Topic: 7103 Message: 7139
Attachments: 1 described; binary payloads are missing from this source WARC

Decent was similar. not as nice as the School flight. but still ok.

Too bad the GPS and Chute is still up in the tree. gotta go back and
see if the owner will allow a cut down. i'ts a nothing tree out in the
middle of a swamp anyway. so it's not like a tree in someones yard.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 5/31/2010 8:51 PM, Mike Manes wrote:
> Hi Joe,
>
> Hey, nice video! Great to work with the Scouts, eh? And kewl beans
> getting the local TV coverage! The last one of ours that hit the toob
> was our disastrous first plastic balloon launch - high winds, and we hung
> onto the payload until the balloon was downwind - payload slid across the
> parking lot and smacked into a snow bank, jamming the camera film advance
> motor, which drained our main payload and primary beacon batteries. Long
> recovery, just trying to get close enough to the 10m beacon to hear it.
>
> Re the long flight string: I think at best it slows down the period
> of the sway, just like a long pendulum on a clock does. But it could
> also create more sway than a short line going thru layers of wind shear,
> since the balloon and payload will be seeing larger differences in wind
> speed. Those inertial arms do a FB job of slowing down the spin,
> however,
> especially on a payload that's aerodynamically symmetrical in the
> horizontal
> plane (no weathervane effects).
>
> How'd the descent video look?
>
> 73 de Mike
>
> On 5/31/2010 15:42, Joe wrote:
>> Afternoon All,
>>
>> Well, NSS-50 is in the Bag.
>>
>> It was pretty interesting, we still again learned some new stuff. Even
>> after 50 flights still keep learning new stuff.
>>
>> One thing we learned this flight is the upper winds are weird!

>> Sometimes!
>>
>> We flew our usual stable flight train for a Video flight. long flight
>> train and stabilization arms.
>>
>> All performed as usual. at low altitudes. but once it got like above
>> 80K it was really strange. The payload was like making a large cone
>> circle. sometimes as large as like 45 degrees! Then other times is was
>> a side to side swing also to these extremes.
>>
>> While this was interesting, what i found interesting was the amount of
>> time it would stay at the extremes! like if the whole flight train is
>> tilted to a 45 deg angle, and how long it stayed that way weird.
>>
>> enjoy!
>>
>> http://www.youtube.com/watch?v=YHAr7F1w-aE
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
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>> Yahoo! Groups Links
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7140. Re: [Balloonatics] Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 02:10:42 UTC
From: Joe
Topic: 7103 Message: 7140

> On 5/31/2010 8:51 PM, Mike Manes wrote:
>
>> Hi Joe,
>>
>> Re the long flight string: I think at best it slows down the period
>> of the sway, just like a long pendulum on a clock does.
yup and thats one of the reasons we usually do ther long like is to make
the slow swing if it does at all.
>> But it could
>> also create more sway than a short line going thru layers of wind shear,
>> since the balloon and payload will be seeing larger differences in wind
>> speed.
Really think in 100 feet there would be that much difference?

That would be a cool experiment if like have wind vanes and anemometers
say every 25 feet for 200 feet span and see how much fifference in air
movements athere actually is.
>> Those inertial arms do a FB job of slowing down the spin,
>> however,
>> especially on a payload that's aerodynamically symmetrical in the
>> horizontal
>> plane (no weathervane effects).
>>
Yea we tried in the very beginning a weathervane system and it was worse
than nothing at all. it grabbed the gusts of wind and jerked it around
all the time, and when it wasn't gusty if he vane wasn't exactly
vertical it acted like a wing and itself spun the payload around because
of the 10 MPh wind flowing across it vertically!
>
>

7141. Re: [Balloonatics] Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 03:33:03 UTC
From: Mike Manes
Topic: 7103 Message: 7141

Yeah, wind shear gradients can be pretty steep. Remember seeing that
video of one of the flights where the camera took a shot of itself
falling into the still-inflated balloon? Now THAT was severe shear!
73 de Mike W5VSI

On 5/31/2010 20:10, Joe wrote:
>
>> On 5/31/2010 8:51 PM, Mike Manes wrote:
>>> Hi Joe,
>>>
>>> Re the long flight string: I think at best it slows down the period
>>> of the sway, just like a long pendulum on a clock does.
> yup and thats one of the reasons we usually do ther long like is to make
> the slow swing if it does at all.
>>> But it could
>>> also create more sway than a short line going thru layers of wind shear,
>>> since the balloon and payload will be seeing larger differences in wind
>>> speed.
> Really think in 100 feet there would be that much difference?
>
> That would be a cool experiment if like have wind vanes and anemometers
> say every 25 feet for 200 feet span and see how much fifference in air
> movements athere actually is.
>>> Those inertial arms do a FB job of slowing down the spin,
>>> however,
>>> especially on a payload that's aerodynamically symmetrical in the
>>> horizontal
>>> plane (no weathervane effects).
> Yea we tried in the very beginning a weathervane system and it was worse
> than nothing at all. it grabbed the gusts of wind and jerked it around
> all the time, and when it wasn't gusty if he vane wasn't exactly
> vertical it acted like a wing and itself spun the payload around because
> of the 10 MPh wind flowing across it vertically!
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7142. Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 13:08:33 UTC
From: Keith Kaiser
Topic: 7103 Message: 7142

Joe

On the announcements page (http://www.arhab.org/ARHABlaunchannouncements.html) I show your last flight as NS-48 did I get that wrong? Should that have been NS-50? All of the flight records are kept for posterity and I want to correct if it's wrong.

Congrats on a successful flight!

On May 31, 2010, at 4:42 PM, Joe wrote:

> Afternoon All,
>
> Well, NSS-50 is in the Bag.
>
> It was pretty interesting, we still again learned some new stuff. Even
> after 50 flights still keep learning new stuff.
>
> One thing we learned this flight is the upper winds are weird! Sometimes!
>
> We flew our usual stable flight train for a Video flight. long flight
> train and stabilization arms.
>
> All performed as usual. at low altitudes. but once it got like above
> 80K it was really strange. The payload was like making a large cone
> circle. sometimes as large as like 45 degrees! Then other times is was
> a side to side swing also to these extremes.
>
> While this was interesting, what i found interesting was the amount of
> time it would stay at the extremes! like if the whole flight train is
> tilted to a 45 deg angle, and how long it stayed that way weird.
>
> enjoy!
>
> http://www.youtube.com/watch?v=YHAr7F1w-aE
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>

7143. Re: [SPAM] Re: [GPSL] NSS-50 Flight Summary Video.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 13:49:04 UTC
From: Joe
Topic: 7103 Message: 7143
Attachments: 1 described; binary payloads are missing from this source WARC

No you were right, We just didn't announce the last two flights.

NSS-49 was testing another GPS. So no big Deal, and NSS-50, yeah we
should have done something press wise. Just never got around to it, sorry<

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 8:08 AM, Keith Kaiser wrote:
> Joe
>
> On the announcements page
> (http://www.arhab.org/ARHABlaunchannouncements.html) I show your last
> flight as NS-48 did I get that wrong? Should that have been NS-50? All
> of the flight records are kept for posterity and I want to correct if
> it's wrong.
>
> Congrats on a successful flight!
>
>
> On May 31, 2010, at 4:42 PM, Joe wrote:
>
>> Afternoon All,
>>
>> Well, NSS-50 is in the Bag.
>>
>> It was pretty interesting, we still again learned some new stuff. Even
>> after 50 flights still keep learning new stuff.
>>
>> One thing we learned this flight is the upper winds are weird! Sometimes!
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>> train and stabilization arms.
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>> All performed as usual. at low altitudes. but once it got like above
>> 80K it was really strange. The payload was like making a large cone
>> circle. sometimes as large as like 45 degrees! Then other times is was
>> a side to side swing also to these extremes.
>>
>> While this was interesting, what i found interesting was the amount of
>> time it would stay at the extremes! like if the whole flight train is

>> tilted to a 45 deg angle, and how long it stayed that way weird.
>>
>> enjoy!
>>
>> http://www.youtube.com/watch?v=YHAr7F1w-aE
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>>
>

7144. Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:14:25 UTC
From: Keith Kaiser
Topic: 7144 Message: 7144

Fellow Aeronauts,

It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.

This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.

Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...

Thanks guys... 73's

7145. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:24:45 UTC
From: Joe
Topic: 7144 Message: 7145
Attachments: 1 described; binary payloads are missing from this source WARC

if not on the GPSL list then the Balloon Sked list?

doesn't matter much to me.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 10:14 AM, Keith Kaiser wrote:
> Fellow Aeronauts,
>
> It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.
>
> This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.
>
> Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...
>
> Thanks guys... 73's
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> Yahoo! Groups Links
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7146. Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:30:17 UTC
From: Keith Kaiser
Topic: 7144 Message: 7146

Fellow Aeronauts,

It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.

This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.

Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...

Thanks guys... 73's

7147. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:32:36 UTC
From: Keith Kaiser
Topic: 7144 Message: 7147

Not sure who uses or how many are on this "Balloon Sked list" I either have been dropped off it or haven't received anything from it in a while now.

On Jun 1, 2010, at 10:24 AM, Joe wrote:

> if not on the GPSL list then the Balloon Sked list?
>
> doesn't matter much to me.
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/1/2010 10:14 AM, Keith Kaiser wrote:
>>
>> Fellow Aeronauts,
>>
>> It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.
>>
>> This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.
>>
>> Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...
>>
>> Thanks guys... 73's
>>
>>
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>> Yahoo! Groups Links
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7148. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:40:11 UTC
From: Joe
Topic: 7144 Message: 7148
Attachments: 1 described; binary payloads are missing from this source WARC

Same here, But i guess that's why someone formed it as to have it be
the place to send out announcements without clogging up other lists.

Like GPSL was started i would assume to be for the GPSL, but it has
eveolved into a list for everyting. which is ok with me it doesn't matter.

I just know i myself miss flights because i do forget to go some page
and look it up.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 10:32 AM, Keith Kaiser wrote:
> Not sure who uses or how many are on this "Balloon Sked list" I either
> have been dropped off it or haven't received anything from it in a
> while now.
>
>
> On Jun 1, 2010, at 10:24 AM, Joe wrote:
>
>> if not on the GPSL list then the Balloon Sked list?
>>
>> doesn't matter much to me.
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 6/1/2010 10:14 AM, Keith Kaiser wrote:
>>> Fellow Aeronauts,
>>>
>>> It has been proposed to me that when I add a posting to the ARHAB announcement page an
automatic eMail be sent to the GPSL eMail list. This would mean not having to double post
the announcement by whoever is setting it up and it would make sure we receive detail
information about a flight in advance of the launch.
>>>
>>> This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50
flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd
"like that" so I'm asking the rest of you to chime in with your thoughts too.
>>>

>>> Send notes to the list, unless you want to address me directly, then send it towa0tjt@...
>>>
>>> Thanks guys... 73's
>>>
>>>
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>>
>

7149. balloons for Korean propaganda

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:49:03 UTC
From: Mark Caviezel
Topic: 7149 Message: 7149

http://www.cnn.com/2010/WORLD/asiapcf/05/31/south.korea.message/index.html?iref=allsearch

All:
This was too interesting to not share.

best

- Mark

7150. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:52:42 UTC
From: HarryM
Topic: 7144 Message: 7150

SigIf you turn on "Automatic Notification" or "Daily Digest" you won't miss flight info or forget to check a list. I subscribe to most of the lists and keep up by using the "Automatic" email and this works great for keeping up with multiple lists.

Harry KC5TRB
ORB

7151. Re: [GPSL] balloons for Korean propaganda

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:53:51 UTC
From: Joe
Topic: 7149 Message: 7151
Attachments: 1 described; binary payloads are missing from this source WARC

I wonder how they are dispersed?

Maybe the paper flyers should be placed INSIDE the balloon and when it
pops then they are spread to a wide area!

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 10:49 AM, Mark Caviezel wrote:
>
http://www.cnn.com/2010/WORLD/asiapcf/05/31/south.korea.message/index.html?iref=allsearch
>
> All:
> This was too interesting to not share.
>
> best
>
> - Mark
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

7152. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 15:57:04 UTC
From: Joe
Topic: 7144 Message: 7152
Attachments: 1 described; binary payloads are missing from this source WARC

Thats how i have all my lists set up (all 290 of them) all are set up as individual e mails and send them to me immediately.

but this even still will miss flights because i don't remember to go to the sked web page.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 10:52 AM, HarryM wrote:
>
>
> If you turn on "Automatic Notification" or "Daily Digest" you won't
> miss flight info or forget to check a list. I subscribe to most of the
> lists and keep up by using the "Automatic" email and this works great
> for keeping up with multiple lists.
> Harry KC5TRB
> ORB
>
>
>

7153. Re: [GPSL] balloons for Korean propaganda

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:00:35 UTC
From: L. Paul Verhage
Topic: 7149 Message: 7153
Attachments: 1 described; binary payloads are missing from this source WARC

Seems best to stuff the gear inside the balloon. When it bursts, it
all comes down.

Ummm, perhaps we should test this by dropping propaganda over Kansas at
GPSL. We could pass the truth about the ourtside world to the unfortunate
residents of Kansas.
Paul
On Tue, Jun 1, 2010 at 10:53 AM, Joe <nss@...> wrote:

> I wonder how they are dispersed?
>
> Maybe the paper flyers should be placed INSIDE the balloon and when it pops
> then they are spread to a wide area!
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/1/2010 10:49 AM, Mark Caviezel wrote:
>
>
http://www.cnn.com/2010/WORLD/asiapcf/05/31/south.korea.message/index.html?iref=allsearch
>
> All:
> This was too interesting to not share.
>
> best
>
> - Mark
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

7154. Re: [GPSL] balloons for Korean propaganda

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:19:41 UTC
From: Joe
Topic: 7149 Message: 7154
Attachments: 2 described; binary payloads are missing from this source WARC

an am/fm radio from 100K feet freefall hmmmmm? he he he

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:00 AM, L. Paul Verhage wrote:
>
>
> Seems best to stuff the gear inside the balloon. When it bursts, it
> all comes down.
> Ummm, perhaps we should test this by dropping propaganda over Kansas
> at GPSL. We could pass the truth about the ourtside world to the
> unfortunate residents of Kansas.
> Paul
> On Tue, Jun 1, 2010 at 10:53 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> I wonder how they are dispersed?
>
> Maybe the paper flyers should be placed INSIDE the balloon and
> when it pops then they are spread to a wide area!
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 6/1/2010 10:49 AM, Mark Caviezel wrote:
>>
http://www.cnn.com/2010/WORLD/asiapcf/05/31/south.korea.message/index.html?iref=allsearch
>>
>> All:
>> This was too interesting to not share.
>>
>> best
>>
>> - Mark
>>
>>
>>

>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

7155. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:21:15 UTC
From: Keith Kaiser
Topic: 7144 Message: 7155

OK, but you guys are missing the point. Right now when a groups sends me a flight notification to post at http://www.arhab.org/ARHABlaunchannouncements.html I post the information to the web page but no one is notified I did so.

These notifications are sent to me at ARHAB Flights <arhabflights@gmail.com> which is NOT a distributed list.

The question is, do you want the web page postings to be sent to the GPSL (largest ARHAB related list) automatically or not?

On Jun 1, 2010, at 10:57 AM, Joe wrote:

> Thats how i have all my lists set up (all 290 of them) all are set up as individual e mails and send them to me immediately.
>
> but this even still will miss flights because i don't remember to go to the sked web page.
>
> Joe
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/1/2010 10:52 AM, HarryM wrote:
>>
>> If you turn on "Automatic Notification" or "Daily Digest" you won't miss flight info or forget to check a list. I subscribe to most of the lists and keep up by using the "Automatic" email and this works great for keeping up with multiple lists.
>>
>> Harry KC5TRB
>> ORB
>>

7156. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:28:28 UTC
From: Joe
Topic: 7144 Message: 7156
Attachments: 1 described; binary payloads are missing from this source WARC

I'd like it via e mail somehow.

kind of like how Ralph was doing it was great to me.

like 90%+ flights are on the weekends. a e mail like on tuesday or wednesday showing the up coming flights, say 2 weeks worth.

then on friday an up dated one would come out. this to me would be the ultimate.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:21 AM, Keith Kaiser wrote:
>
>
> OK, but you guys are missing the point. Right now when a groups sends
> me a flight notification to post at
> http://www.arhab.org/ARHABlaunchannouncements.html I post the
> information to the web page but no one is notified I did so.
>
> These notifications are sent to me at ARHAB Flights
> <arhabflights@... <mailto:arhabflights@...>> which is NOT
> a distributed list.
>
> The question is, do you want the web page postings to be sent to the
> GPSL (largest ARHAB related list) automatically or not?
>
>
> On Jun 1, 2010, at 10:57 AM, Joe wrote:
>
>> Thats how i have all my lists set up (all 290 of them) all are set up
>> as individual e mails and send them to me immediately.
>>
>> but this even still will miss flights because i don't remember to go
>> to the sked web page.
>>
>> Joe
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme

>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 6/1/2010 10:52 AM, HarryM wrote:
>>> If you turn on "Automatic Notification" or "Daily Digest" you won't
>>> miss flight info or forget to check a list. I subscribe to most of
>>> the lists and keep up by using the "Automatic" email and this works
>>> great for keeping up with multiple lists.
>>> Harry KC5TRB
>>> ORB
>
>
>
>

7157. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:29:34 UTC
From: Mark Conner
Topic: 7144 Message: 7157

I think we should put it to the Balloon_Sked list. The fact that the GPSL list has evolved beyond GPSL-related traffic (which is a pain) should not drive this bus. We now no longer have a list for just GPSL-related traffic.

I've been thinking we should reorganize or repurpose some of the lists. I'd like to see a national-level (or possibly international) A(R)HAB mailing list and revert GPSL to its original purpose. The KNSP list was originally for Paul's Kansas Near Space Project, then became a group for KS/NE/MO balloon groups. Now most groups have individual lists and I'm tempted to spin off a NSTAR list.

If there's consensus, I could research a name and set up a national/international list.

73 de Mark N9XTN

On Tue, Jun 1, 2010 at 11:21, Keith Kaiser <wa0tjt@...> wrote:

>
>
> OK, but you guys are missing the point. Right now when a groups sends me a
> flight notification to post at
> http://www.arhab.org/ARHABlaunchannouncements.html I post the information
> to the web page but no one is notified I did so.
>
> These notifications are sent to me at ARHAB Flights <
> arhabflights@...> which is NOT a distributed list.
>
> The question is, do you want the web page postings to be sent to the GPSL
> (largest ARHAB related list) automatically or not?
>
>
> On Jun 1, 2010, at 10:57 AM, Joe wrote:
>
> Thats how i have all my lists set up (all 290 of them) all are set up as
> individual e mails and send them to me immediately.
>
> but this even still will miss flights because i don't remember to go to the
> sked web page.
>
> Joe
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

>
> On 6/1/2010 10:52 AM, HarryM wrote:
>
> If you turn on "Automatic Notification" or "Daily Digest" you won't miss
> flight info or forget to check a list. I subscribe to most of the lists and
> keep up by using the "Automatic" email and this works great for keeping up
> with multiple lists.
>
> Harry KC5TRB
> ORB
>
>
>
>
>
>
>

7158. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:39:33 UTC
From: Joe
Topic: 7144 Message: 7158

On 6/1/2010 11:29 AM, Mark Conner wrote:
>
>
> I think we should put it to the Balloon_Sked list.
I agree
> The fact that the GPSL list has evolved beyond GPSL-related traffic
> (which is a pain) should not drive this bus. We now no longer have a
> list for just GPSL-related traffic.
I also Agree,
>
> I've been thinking we should reorganize or repurpose some of the lists.
Yes the lists are already out there. GPSL should be only GPSL stuff,
have balloon sked for skeds, and blooning the generic catch all. yes?
> I'd like to see a national-level (or possibly international) A(R)HAB
> mailing list and revert GPSL to its original purpose.
yup
> The KNSP list was originally for Paul's Kansas Near Space Project,
> then became a group for KS/NE/MO balloon groups. Now most groups have
> individual lists and I'm tempted to spin off a NSTAR list.
>
> If there's consensus, I could research a name and set up a
> national/international list.
How about the never used Ballooning,
>
> 73 de Mark N9XTN
>
> On Tue, Jun 1, 2010 at 11:21, Keith Kaiser <wa0tjt@...
> <mailto:wa0tjt@...>> wrote:
>
>
>
> OK, but you guys are missing the point. Right now when a groups
> sends me a flight notification to post at
> http://www.arhab.org/ARHABlaunchannouncements.html I post the
> information to the web page but no one is notified I did so.
>
> These notifications are sent to me at ARHAB Flights
> <arhabflights@... <mailto:arhabflights@...>> which is
> NOT a distributed list.
>
> The question is, do you want the web page postings to be sent to
> the GPSL (largest ARHAB related list) automatically or not?
>
>
> On Jun 1, 2010, at 10:57 AM, Joe wrote:

>
>> Thats how i have all my lists set up (all 290 of them) all are
>> set up as individual e mails and send them to me immediately.
>>
>> but this even still will miss flights because i don't remember to
>> go to the sked web page.
>>
>> Joe
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 6/1/2010 10:52 AM, HarryM wrote:
>>> If you turn on "Automatic Notification" or "Daily Digest" you
>>> won't miss flight info or forget to check a list. I subscribe to
>>> most of the lists and keep up by using the "Automatic" email and
>>> this works great for keeping up with multiple lists.
>>> Harry KC5TRB
>>> ORB
>
>
>
>
>
>
>

7159. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:45:28 UTC
From: Keith Kaiser
Topic: 7144 Message: 7159

I can post the note to any eMail address you guys want, just tell me which.

On Jun 1, 2010, at 11:39 AM, Joe wrote:

>
> On 6/1/2010 11:29 AM, Mark Conner wrote:
>
>> I think we should put it to the Balloon_Sked list.
> I agree
>> The fact that the GPSL list has evolved beyond GPSL-related traffic (which is a pain) should not drive this bus. We now no longer have a list for just GPSL-related traffic.
> I also Agree,
>>
>> I've been thinking we should reorganize or repurpose some of the lists.
> Yes the lists are already out there. GPSL should be only GPSL stuff, have balloon sked for skeds, and blooning the generic catch all. yes?
>> I'd like to see a national-level (or possibly international) A(R)HAB mailing list and revert GPSL to its original purpose.
> yup
>> The KNSP list was originally for Paul's Kansas Near Space Project, then became a group for KS/NE/MO balloon groups. Now most groups have individual lists and I'm tempted to spin off a NSTAR list.
>>
>> If there's consensus, I could research a name and set up a national/international list.
> How about the never used Ballooning,
>>
>> 73 de Mark N9XTN
>>
>> On Tue, Jun 1, 2010 at 11:21, Keith Kaiser <wa0tjt@gmail.com> wrote:
>>
>>
>> OK, but you guys are missing the point. Right now when a groups sends me a flight notification to post at http://www.arhab.org/ARHABlaunchannouncements.html I post the information to the web page but no one is notified I did so.
>>
>> These notifications are sent to me at ARHAB Flights <arhabflights@...> which is NOT a distributed list.
>>
>> The question is, do you want the web page postings to be sent to the GPSL (largest ARHAB related list) automatically or not?
>>
>>
>> On Jun 1, 2010, at 10:57 AM, Joe wrote:
>>
>>> Thats how i have all my lists set up (all 290 of them) all are set up as individual e

mails and send them to me immediately.
>>>
>>> but this even still will miss flights because i don't remember to go to the sked web page.
>>>
>>> Joe
>>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 6/1/2010 10:52 AM, HarryM wrote:
>>>>
>>>> If you turn on "Automatic Notification" or "Daily Digest" you won't miss flight info or forget to check a list. I subscribe to most of the lists and keep up by using the "Automatic" email and this works great for keeping up with multiple lists.
>>>>
>>>> Harry KC5TRB
>>>> ORB
>>>>
>>
>>
>>
>>
>
>

7160. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:45:49 UTC
From: Mark Conner
Topic: 7144 Message: 7160

Actually the "Ballooning" name for Yahoo Groups is used by ANSR.

- Mark

On Tue, Jun 1, 2010 at 11:39, Joe <nss@...> wrote:

>
> On 6/1/2010 11:29 AM, Mark Conner wrote:
>
>
>
> I think we should put it to the Balloon_Sked list.
>
> I agree
>
> The fact that the GPSL list has evolved beyond GPSL-related traffic (which
> is a pain) should not drive this bus. We now no longer have a list for just
> GPSL-related traffic.
>
> I also Agree,
>
>
> I've been thinking we should reorganize or repurpose some of the lists.
>
> Yes the lists are already out there. GPSL should be only GPSL stuff, have
> balloon sked for skeds, and blooning the generic catch all. yes?
>
> I'd like to see a national-level (or possibly international) A(R)HAB
> mailing list and revert GPSL to its original purpose.
>
> yup
>
> The KNSP list was originally for Paul's Kansas Near Space Project, then
> became a group for KS/NE/MO balloon groups. Now most groups have individual
> lists and I'm tempted to spin off a NSTAR list.
>
> If there's consensus, I could research a name and set up a
> national/international list.
>
> How about the never used Ballooning,
>
>

7161. Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:45:30 UTC
From: n1ltv
Topic: 7144 Message: 7161

> Not sure who uses or how many are on this "Balloon Sked list" I
> either have been dropped off it or haven't received anything from it > in a while now.

Keith,

You use it and about 300 other folks, making it the largest
balloon list that I know of, certainly much larger than GPSL
(about 50% larger).

In fact your last post was March 30, one of three messages you
posted to Balloon_Sked in March 2010.

As an email subscriber to Balloon_Sked you should have received
the latest post on May 26 (Pete Lilja and NYT).

Hank
Balloon_Sked assistant moderator

7162. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:52:55 UTC
From: Keith Kaiser
Topic: 7144 Message: 7162

Indeed! You are correct. So should auto-notifications be sent here then? Sounds like a good idea to me.

On Jun 1, 2010, at 11:45 AM, n1ltv wrote:

> > Not sure who uses or how many are on this "Balloon Sked list" I
> > either have been dropped off it or haven't received anything from it > in a while now.
>
> Keith,
>
> You use it and about 300 other folks, making it the largest
> balloon list that I know of, certainly much larger than GPSL
> (about 50% larger).
>
> In fact your last post was March 30, one of three messages you
> posted to Balloon_Sked in March 2010.
>
> As an email subscriber to Balloon_Sked you should have received
> the latest post on May 26 (Pete Lilja and NYT).
>
> Hank
> Balloon_Sked assistant moderator
>
>

7163. Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:52:51 UTC
From: n1ltv
Topic: 7144 Message: 7163

> You use it and about 300 other folks, making it the largest
> balloon list that I know of, certainly much larger than GPSL
> (about 50% larger).

Waited for my post to show up so I could correct it.

Actually Balloning is the largest at 435 (ANSR, Arizona).

Hank

7164. Emailing: ARHAB Launch Announcements.htm

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:55:34 UTC
From: Joe
Topic: 7164 Message: 7164
Attachments: 1 described; binary payloads are missing from this source WARC

something as simple as "send Page By E Mail"

7165. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:56:39 UTC
From: Mark Conner
Topic: 7144 Message: 7165

Send them to Balloon_Sked. I would like to continue the discussion on
having a high-level A(R)HAB list and repurposing the GPSL list though.

I'm guessing "Ballooning" has a lot of subscribers due to its name -
probably pops up early on anyone doing searches.

73 de Mark N9XTN

On Tue, Jun 1, 2010 at 11:52, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Indeed! You are correct. So should auto-notifications be sent here then?
> Sounds like a good idea to me.
>
>
> On Jun 1, 2010, at 11:45 AM, n1ltv wrote:
>
>
>
> > Not sure who uses or how many are on this "Balloon Sked list" I
> > either have been dropped off it or haven't received anything from it > in
> a while now.
>
> Keith,
>
> You use it and about 300 other folks, making it the largest
> balloon list that I know of, certainly much larger than GPSL
> (about 50% larger).
>
> In fact your last post was March 30, one of three messages you
> posted to Balloon_Sked in March 2010.
>
> As an email subscriber to Balloon_Sked you should have received
> the latest post on May 26 (Pete Lilja and NYT).
>
> Hank
> Balloon_Sked assistant moderator
>
>
>
>
>

7166. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:56:31 UTC
From: Keith Kaiser
Topic: 7144 Message: 7166

Clearly I have WAY TOO MANY eMail lists to monitor... LOL

OK, so the proposal.... send the eMail to the balloon_sked list, and ANSR? Or just balloon_sked?

On Jun 1, 2010, at 11:52 AM, n1ltv wrote:

> > You use it and about 300 other folks, making it the largest
> > balloon list that I know of, certainly much larger than GPSL
> > (about 50% larger).
>
> Waited for my post to show up so I could correct it.
>
> Actually Balloning is the largest at 435 (ANSR, Arizona).
>
> Hank
>
>

7167. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:56:37 UTC
From: Joe
Topic: 7144 Message: 7167
Attachments: 1 described; binary payloads are missing from this source WARC

Largest Yes, but little used yes? or am i not getting messages from it?
Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:52 AM, n1ltv wrote:
>> You use it and about 300 other folks, making it the largest
>> balloon list that I know of, certainly much larger than GPSL
>> (about 50% larger).
>>
>
> Waited for my post to show up so I could correct it.
>
> Actually Balloning is the largest at 435 (ANSR, Arizona).
>
> Hank
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
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>

7168. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:57:13 UTC
From: Joe
Topic: 7144 Message: 7168
Attachments: 1 described; binary payloads are missing from this source WARC

Ahhh, so surely need something else don't want to take over their group

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:45 AM, Mark Conner wrote:
>
>
> Actually the "Ballooning" name for Yahoo Groups is used by ANSR.
>
> - Mark
>
> On Tue, Jun 1, 2010 at 11:39, Joe <nss@... <mailto:nss@...>>
> wrote:
>
>
> On 6/1/2010 11:29 AM, Mark Conner wrote:
>>
>>
>> I think we should put it to the Balloon_Sked list.
> I agree
>
>> The fact that the GPSL list has evolved beyond GPSL-related
>> traffic (which is a pain) should not drive this bus. We now no
>> longer have a list for just GPSL-related traffic.
> I also Agree,
>
>>
>> I've been thinking we should reorganize or repurpose some of the
>> lists.
> Yes the lists are already out there. GPSL should be only GPSL
> stuff, have balloon sked for skeds, and blooning the generic
> catch all. yes?
>
>> I'd like to see a national-level (or possibly international)
>> A(R)HAB mailing list and revert GPSL to its original purpose.
> yup
>
>> The KNSP list was originally for Paul's Kansas Near Space
>> Project, then became a group for KS/NE/MO balloon groups. Now
>> most groups have individual lists and I'm tempted to spin off a
>> NSTAR list.

>>
>> If there's consensus, I could research a name and set up a
>> national/international list.
> How about the never used Ballooning,
>
>
>
>
>

7169. Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:57:44 UTC
From: n1ltv
Topic: 7144 Message: 7169

> >> I'd like to see a national-level (or possibly international) A(R)HAB mailing list and revert GPSL to its original purpose.

> >> If there's consensus, I could research a name and set up a national/international list.

How about the "Pixar balloon list"? That's an in-joke only for
veteran ham radio balloon people.

Hank

7170. Re: [GPSL] Emailing: ARHAB Launch Announcements.htm [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:59:05 UTC
From: Keith Kaiser
Topic: 7164 Message: 7170

The page as you see it is not as simple as it once was. Before I took it over Ralph maintained the page via a Word document. Today it is a true web page with lots of functionality that Ralph did not offer. It is true HTML with CSS to control its looks and Javascript/AJAX to automate a lot of it.

I want to do more but my perl sucks and nothing else is currently available (PHP for example) so at the movement whatever I do must be doable via Javascript, unless I have a volunteer who knows perl.

On Jun 1, 2010, at 11:55 AM, Joe wrote:

> [Attachment(s) from Joe included below]
> something as simple as "send Page By E Mail"
>

7171. Re: [GPSL] Emailing: ARHAB Launch Announcements.htm [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 16:59:27 UTC
From: Joe
Topic: 7164 Message: 7171
Attachments: 1 described; binary payloads are missing from this source WARC

well that diddn't worh the html was stripped.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:55 AM, Joe wrote:
> something as simple as "send Page By E Mail"
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>

7172. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 17:01:10 UTC
From: Joe
Topic: 7144 Message: 7172
Attachments: 1 described; binary payloads are missing from this source WARC

WOW!

I remember that, who set that up anyway? WOW that brings back memories
he he he

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/1/2010 11:57 AM, n1ltv wrote:
>>>> I'd like to see a national-level (or possibly international) A(R)HAB mailing list and revert GPSL to its original purpose.
>>>>
>
>>>> If there's consensus, I could research a name and set up a national/international list.
>>>>
> How about the "Pixar balloon list"? That's an in-joke only for
> veteran ham radio balloon people.
>
> Hank
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>
>
>

7173. Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 17:12:18 UTC
From: n1ltv
Topic: 7144 Message: 7173

> I remember that, who set that up anyway? WOW that brings back
> memories

I knew it would for you Joe!

Bruce Perens, from Pixar, what else? :)

http://en.wikipedia.org/wiki/Bruce_Perens

7174. Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 17:30:33 UTC
From: n1ltv
Topic: 7144 Message: 7174

> Largest Yes, but little used yes? or am i not getting messages
> from it?

> Joe

Joe,

You are subscribed to Balloon_Sked as receiving (immediate)
email notices. They range typically from 20 to 40 a month.

You already know that the last message was late May, so that
should be enough to answer your own question about whether
you're "getting" messages.

Only you know if you're reading the messages or even noticing
that you've received them in your email loaded with what must
be thousands of other emails a month you're getting from all
those lists.

Hank

7175. RE: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 19:22:02 UTC
From: Rick von Glahn
Topic: 7144 Message: 7175

I'd recommend both lists. But. balloon_sked currently has 298 members.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Tuesday, June 01, 2010 9:33 AM
To: Joe
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Notification Proposal

Not sure who uses or how many are on this "Balloon Sked list" I either have been dropped off it or haven't received anything from it in a while now.

On Jun 1, 2010, at 10:24 AM, Joe wrote:

if not on the GPSL list then the Balloon Sked list?

doesn't matter much to me.

<CLEAN-IDLE-TYME-LOGO-100-50.jpg>
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com/> http://www.idle-tyme.com

On 6/1/2010 10:14 AM, Keith Kaiser wrote:

Fellow Aeronauts,

It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.

This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.

Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...

Thanks guys... 73's

Yahoo! Groups Links

7176. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 19:45:15 UTC
From: natewac@aol.com
Topic: 7144 Message: 7176

I for one would like to be notified by email.

N8WAC,Tony

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, Jun 1, 2010 11:14 am
Subject: [GPSL] Notification Proposal

Fellow Aeronauts,

It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.

This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.

Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...

Thanks guys... 73's

7177. Re: [GPSL] Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 20:17:03 UTC
From: Mike Manes
Topic: 7144 Message: 7177

Hi guys,

I've been getting emailed announcements for every change posted to the ARHAB announcement page for over a year now, using changedetection.com

http://www.changedetection.com/faq.html

Now, I get the same email with a link to the URL for that page even if the change is relatively minor, like a freq or launch site change, but there's also a link to a was/now version of the update, so you can tell if it's something interesting or not. If there's nothing coming up that I'm real interested in, I usually just del the announcement emails. So what would be neat would be if the ARHAB announcement page were set up such that it just listed upcoming scheduled or recently completed flights, with links to the nitty-gritty for those who are interested - that would just generate changedetection.com emails only when a new flight was posted or completed.

Just my $0.02.

73 de Mike W5VSI

On 6/1/2010 09:14, Keith Kaiser wrote:
> Fellow Aeronauts,
>
> It has been proposed to me that when I add a posting to the ARHAB announcement page an automatic eMail be sent to the GPSL eMail list. This would mean not having to double post the announcement by whoever is setting it up and it would make sure we receive detail information about a flight in advance of the launch.
>
> This proposal came out of a talk with Joe regarding his NOT pre-posting his NSS-50 flight which has subsequently generated quite a bit of traffic on the site. Joe says he'd "like that" so I'm asking the rest of you to chime in with your thoughts too.
>
> Send notes to the list, unless you want to address me directly, then send it to wa0tjt@...
>
> Thanks guys... 73's
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>

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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7178. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-01 20:58:31 UTC
From: wb8elk@aol.com
Topic: 7144 Message: 7178

I typically will send out launch announcements to the following lists: Balloon_Sked and Balloonatics (usually where balloon folks in the southeast hang out)...if it's a major event (particularly if using an HF telemetry transmitter that has the potential to be heard across the country or if I'm streaming video of the launch) I'll also include Ballooning and GPSL.

For an automatic email, I'd vote to send it to Balloon_Sked only.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 1, 2010 12:30 pm
Subject: [GPSL] Re: Notification Proposal

> Largest Yes, but little used yes? or am i not getting messages
> from it?

> Joe

Joe,

You are subscribed to Balloon_Sked as receiving (immediate)
email notices. They range typically from 20 to 40 a month.

You already know that the last message was late May, so that
should be enough to answer your own question about whether
you're "getting" messages.

Only you know if you're reading the messages or even noticing
that you've received them in your email loaded with what must
be thousands of other emails a month you're getting from all
those lists.

Hank

=

7179. RE: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 01:42:16 UTC
From: Nick Hanks
Topic: 7144 Message: 7179

I☐m with Bill -- For automatic email, I vote to send it to Balloon_Sked only.

And I☐m with Mark ☐ GPSL for GPSL-related items only.

Nick

NØLP

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, June 01, 2010 14:59
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Notification Proposal

I typically will send out launch announcements to the following lists: Balloon_Sked and Balloonatics (usually where balloon folks in the southeast hang out)...if it's a major event (particularly if using an HF telemetry transmitter that has the potential to be heard across the country or if I'm streaming video of the launch) I'll also include Ballooning and GPSL.

For an automatic email, I'd vote to send it to Balloon_Sked only.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 1, 2010 12:30 pm
Subject: [GPSL] Re: Notification Proposal

> Largest Yes, but little used yes? or am i not getting messages
> from it?

> Joe

Joe,

You are subscribed to Balloon_Sked as receiving (immediate) email notices. They range typically from 20 to 40 a month.

You already know that the last message was late May, so that should be enough to answer your own question about whether you're "getting" messages.

Only you know if you're reading the messages or even noticing that you've received them in your email loaded with what must be thousands of other emails a month you're getting from all those lists.

Hank

7180. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 02:25:36 UTC
From: Mike Manes
Topic: 7144 Message: 7180

I half agree. Balloon_Sked for skeds, but the GPSL reflector has become
the de facto balloonatic prophead techie reflector nearly year 'round.
I'm not pushing for yet another reflector, however.
73 de Mike W5VSI

On 6/1/2010 19:42, Nick Hanks wrote:
>
>
> I’m with Bill -- For automatic email, I vote to send it to Balloon_Sked
> only.
>
> And I’m with Mark – GPSL for GPSL-related items only.
>
> Nick
>
> NØLP
>
> ---
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *wb8elk@...
> *Sent:* Tuesday, June 01, 2010 14:59
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Re: Notification Proposal
>
> I typically will send out launch announcements to the following lists:
> Balloon_Sked and Balloonatics (usually where balloon folks in the
> southeast hang out)...if it's a major event (particularly if using an HF
> telemetry transmitter that has the potential to be heard across the
> country or if I'm streaming video of the launch) I'll also include
> Ballooning and GPSL.
>
> For an automatic email, I'd vote to send it to Balloon_Sked only.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: n1ltv <n1ltv@...>
> To: GPSL@yahoogroups.com
> Sent: Tue, Jun 1, 2010 12:30 pm
> Subject: [GPSL] Re: Notification Proposal
>
>> Largest Yes, but little used yes? or am i not getting messages

>> from it?
>
>> Joe
>
> Joe,
>
> You are subscribed to Balloon_Sked as receiving (immediate)
> email notices. They range typically from 20 to 40 a month.
>
> You already know that the last message was late May, so that
> should be enough to answer your own question about whether
> you're "getting" messages.
>
> Only you know if you're reading the messages or even noticing
> that you've received them in your email loaded with what must
> be thousands of other emails a month you're getting from all
> those lists.
>
> Hank
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7181. aprs packet settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 03:10:50 UTC
From: ccccrnr@aim.com
Topic: 7181 Message: 7181

What settings should be used for aprs trackers?
such as WIDE?-? for balloon and car so that both can show up on the internet
should this be in Comment or Status or where?

or are there other things that have to be set to be recorded on the internet?

I've been trying findu and aprs.fi and can't see myself or payload(on ground)
we want the internet gateways to record the packet positions, but also want to keep traffic to a minimum.

currently struggling with OpenTracker+, some guys in our group are AVR freaks and talk about getting WhereAVR

Sincerely,
Carlton
-.- .. ....- -. .... -.-

ps. I know another tech question..... too bad the ut wiki can't answer this :)

7182. Re: [GPSL] aprs packet settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 14:35:30 UTC
From: Michael Willett
Topic: 7181 Message: 7182

I think we have all had this question when we first get started in APRS and especially when starting AHAB tracking!

Your question can be answered several ways:

Most vehicles driving around in metro areas can use nothing in the PATH field and they can hit digi's. But generically, most of us will run WIDE2-1,WIDE1-1 to assure we get repeated overall.

In the middle of nowhere, where digis are far and few between, vehicles can use higher settings such as WIDE2-2, and higher, but this is rarely needed.

On AHABs, you can leave the PATH field blank if you are in an area that have several digi's that you can hit at altitude. Realize the footprint up there (say 85Kft) is around 300 miles in diameter, so many digi's can pick the AHAB up. NEVER use WIDE2-2 at high altitude because the digi's will flood the APRS network and you will be amazed at the traffic generated! It quickly creates a backlog at such low data rates.

On AHABs, at lower altitudes, use of WIDE2-1, WIDE1-1 works well. In the OT+ you can set a bank switch to happen at a certain altitude. Say at 15Kft, you might switch from bank0 to bank1, and bank0 might have WIDE2-1,WIDE1-1, and in Bank1 you might have PATH as blank.

I am sure there will be other opinions on this topic, but I feel the settings really depend on where you are flying the AHAB, how many digis you can see at low altitude and high altitude and you mileage may vary depending on those factors.

--Michael K5NOT

On 6/1/2010 10:10 PM, ccccrnr@... wrote:
>
> What settings should be used for aprs trackers?
> such as WIDE?-? for balloon and car so that both can show up on the
> internet
> should this be in Comment or Status or where?
>
> or are there other things that have to be set to be recorded on the
> internet?
>
> I've been trying findu and aprs.fi and can't see myself or payload(on
> ground)
> we want the internet gateways to record the packet positions, but also
> want to keep traffic to a minimum.
>

> currently struggling with OpenTracker+, some guys in our group are AVR
> freaks and talk about getting WhereAVR
>
> Sincerely,
> Carlton
> -.- .. ....- -. .... -.-
>
> ps. I know another tech question..... too bad the ut wiki can't answer
> this :)
>
>

7183. Re: [GPSL] aprs packet settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 14:44:21 UTC
From: Mark Conner
Topic: 7181 Message: 7183

You don't want WIDE1-1 as the second call in any path, airborne or ground. Otherwise, when the packet is digipeated by the WIDE2-N station, every WIDE1-1 home station will then retransmit it. That's not a desired function. WIDE1-1 should be first in the path if it's ever used.

If you can path-switch on the balloon payload, use no path above a few thousand feet and WIDE2-1 or WIDE1-1,WIDE2-1 when low. If you can't path-switch, use no path or WIDE2-1 only.

See http://www.aprs.org/fix14439.html for a fuller discussion of the use of WIDEn-N.

73 de Mark N9XTN

On Wed, Jun 2, 2010 at 09:35, Michael Willett <mw@...> wrote:

>
>
>
> I think we have all had this question when we first get started in APRS and
> especially when starting AHAB tracking!
>
> Your question can be answered several ways:
>
> Most vehicles driving around in metro areas can use nothing in the PATH
> field and they can hit digi's. But generically, most of us will run
> WIDE2-1,WIDE1-1 to assure we get repeated overall.
>
> In the middle of nowhere, where digis are far and few between, vehicles can
> use higher settings such as WIDE2-2, and higher, but this is rarely needed.
>
> On AHABs, you can leave the PATH field blank if you are in an area that
> have several digi's that you can hit at altitude. Realize the footprint up
> there (say 85Kft) is around 300 miles in diameter, so many digi's can pick
> the AHAB up. NEVER use WIDE2-2 at high altitude because the digi's will
> flood the APRS network and you will be amazed at the traffic generated! It
> quickly creates a backlog at such low data rates.
>
> On AHABs, at lower altitudes, use of WIDE2-1, WIDE1-1 works well. In the
> OT+ you can set a bank switch to happen at a certain altitude. Say at 15Kft,
> you might switch from bank0 to bank1, and bank0 might have WIDE2-1,WIDE1-1,
> and in Bank1 you might have PATH as blank.
>
> I am sure there will be other opinions on this topic, but I feel the
> settings really depend on where you are flying the AHAB, how many digis you
> can see at low altitude and high altitude and you mileage may vary depending

> on those factors.
>
> --Michael K5NOT
>
>
>
>
> On 6/1/2010 10:10 PM, ccccrnr@... wrote:
>
>
>
> What settings should be used for aprs trackers?
> such as WIDE?-? for balloon and car so that both can show up on the
> internet
> should this be in Comment or Status or where?
>
> or are there other things that have to be set to be recorded on the
> internet?
>
> I've been trying findu and aprs.fi and can't see myself or payload(on
> ground)
> we want the internet gateways to record the packet positions, but also want
> to keep traffic to a minimum.
>
> currently struggling with OpenTracker+, some guys in our group are AVR
> freaks and talk about getting WhereAVR
>
> Sincerely,
> Carlton
> -.- .. ....- -. .... -.-
>
> ps. I know another tech question..... too bad the ut wiki can't answer
> this :)
>
>
>

7184. Parallax Donation

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 20:48:33 UTC
From: L. Paul Verhage
Topic: 7184 Message: 7184

I just recieved a donation from Parallax. It shoud include Homework boards, senors, and GPSs.

--
Onwards and Upwards,
Paul

7185. Re: [GPSL] Re: Notification Proposal

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 21:05:07 UTC
From: wb8elk@aol.com
Topic: 7144 Message: 7185

I agree with Mike's statements....I like the balloon-techie discussions that occur here on the GPSL reflector...limiting discussions just to the yearly GPSL conference would make for some quiet times on the GPSL list most of the year. Quite a few of our members on this list are here because of the technical discussions and advice from some of the most experienced balloonatics you'll likely find anywhere and it may be disruptive to create yet another list just for these types of discussions. I know that keeping up with the several balloon lists that currently exist keep me quite busy.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...m>
To: GPSL@yahoogroups.com
Cc: Nick Hanks <ndhanks@...>
Sent: Tue, Jun 1, 2010 9:25 pm
Subject: Re: [GPSL] Re: Notification Proposal

I half agree. Balloon_Sked for skeds, but the GPSL reflector has become
he de facto balloonatic prophead techie reflector nearly year 'round.
'm not pushing for yet another reflector, however.
3 de Mike W5VSI
On 6/1/2010 19:42, Nick Hanks wrote:

I’m with Bill -- For automatic email, I vote to send it to Balloon_Sked
only.

And I’m with Mark – GPSL for GPSL-related items only.

Nick

NØLP

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
*wb8elk@...
Sent: Tuesday, June 01, 2010 14:59
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Notification Proposal

I typically will send out launch announcements to the following lists:
Balloon_Sked and Balloonatics (usually where balloon folks in the
southeast hang out)...if it's a major event (particularly if using an HF
telemetry transmitter that has the potential to be heard across the
country or if I'm streaming video of the launch) I'll also include
Ballooning and GPSL.

For an automatic email, I'd vote to send it to Balloon_Sked only.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 1, 2010 12:30 pm
Subject: [GPSL] Re: Notification Proposal

> Largest Yes, but little used yes? or am i not getting messages
> from it?

> Joe

Joe,

You are subscribed to Balloon_Sked as receiving (immediate)
email notices. They range typically from 20 to 40 a month.

You already know that the last message was late May, so that
should be enough to answer your own question about whether
you're "getting" messages.

Only you know if you're reading the messages or even noticing
that you've received them in your email loaded with what must
be thousands of other emails a month you're getting from all
those lists.

Hank

--
ike Manes mrmanes@... Tel: 303-979-4899
Things should be made as simple as possible, but not more so."
. Einstein

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

7186. Re: [GPSL] aprs packet settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-02 21:15:18 UTC
From: wb8elk@aol.com
Topic: 7181 Message: 7186

Hi Carlton,

I currently use just WIDE2-1 for my APRS path with excellent results. If you aren't near a digipeater, then you won't see yourself on the Internet while on the ground when running low power unless you either drive near a local gateway station or digipeater or use your car radio as a digipeater relay. Gary Dion N4TXI in our group here in Huntsville designed the WhereAVR APRS module that uses the Atmel AVR series which I've flown many times, so if you have any questions on it, just let me or Gary know.

- Bill WB8ELK

Also....if you have a cellular modem attached to your laptop in the chase vehicle, you can gateway the packets your receive to the Internet using any of the popular APRS programs such as UI-View, APRS-SA, etc. When our chase vehicles are positioned near the predicted landing zone, then the world can see the final landing spot via a mobile gateway.

-----Original Message-----
From: ccccrnr@...
To: GPSL@yahoogroups.com
Sent: Tue, Jun 1, 2010 10:10 pm
Subject: [GPSL] aprs packet settings

What settings should be used for aprs trackers?
such as WIDE?-? for balloon and car so that both can show up on the internet
should this be in Comment or Status or where?

or are there other things that have to be set to be recorded on the internet?

I've been trying findu and aprs.fi and can't see myself or payload(on ground)
we want the internet gateways to record the packet positions, but also want to keep traffic to a minimum.

currently struggling with OpenTracker+, some guys in our group are AVR freaks and talk about getting WhereAVR

Sincerely,
Carlton
-.- .. ....- -. .... -.-

ps. I know another tech question..... too bad the ut wiki can't answer this :)

What settings should be used for aprs trackers?
such as WIDE?-? for balloon and car so that both can show up on the internet
should this be in Comment or Status or where?

or are there other things that have to be set to be recorded on the internet?

I've been trying findu and aprs.fi and can't see myself or payload(on ground)
we want the internet gateways to record the packet positions, but also want to keep traffic to a minimum.

currently struggling with OpenTracker+, some guys in our group are AVR freaks and talk about getting WhereAVR

Sincerely,
Carlton
-.- .. ....- -. .... -.-

ps. I know another tech question..... too bad the ut wiki can't answer this :)

7187. CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 03:22:27 UTC
From: Joe
Topic: 7187 Message: 7187
Attachments: 1 described; binary payloads are missing from this source WARC

Who out there has made some of their own scripts?

Joe WB9SBD
Near Space Sciences KB9KHO
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

7188. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 12:52:18 UTC
From: zclobes@gmail.com
Topic: 7187 Message: 7188

I modified one of the scripts and flew it on our 2010a flight, if that counts. I believe that Mark has done quite a bit with them too.

Zack

On Jun 3, 2010 10:22pm, Joe <nss@...> wrote:

> Who out there has made some of their own scripts?

> Joe WB9SBD

> Near Space Sciences KB9KHO

> --

> The Original Rolling Ball
> Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

7189. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 13:29:32 UTC
From: Joe
Topic: 7187 Message: 7189

Of course that counts,

What camera are you using? I have the Powershot A560 here...

On 6/4/2010 7:52 AM, zclobes@... wrote:
>
>
> I modified one of the scripts and flew it on our 2010a flight, if that
> counts. I believe that Mark has done quite a bit with them too.
>
> Zack
>
> On Jun 3, 2010 10:22pm, Joe <nss@...> wrote:
> >
> > Who out there has made some of their own scripts?
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> >
> >
> > Joe WB9SBD
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7190. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 13:35:33 UTC
From: Mark Conner
Topic: 7187 Message: 7190

I have a Powershot A560 in use with a CHDK script. I started with the basic intervalometer script and made a few mods to it to do things like inhibit the flash and a few other settings.

73 de Mark N9XTN

On Fri, Jun 4, 2010 at 07:52, <zclobes@...> wrote:

>
>
> I modified one of the scripts and flew it on our 2010a flight, if that
> counts. I believe that Mark has done quite a bit with them too.
>
> Zack
>
>
> On Jun 3, 2010 10:22pm, Joe <nss@...> wrote:
> >
> > Who out there has made some of their own scripts?
> >
> >
> >
> > Joe WB9SBD
> >
> > Near Space Sciences KB9KHO
> >
>

7191. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 13:59:09 UTC
From: Joe
Topic: 7187 Message: 7191
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark and everyone else here.

I was at the CHDK site and on the forum there and they say if you can do it with taking pictures, you can also do it when shooting video. But obviously a standard interlover for pictures does not work when the camera is in video mode. Here is as the story goes..

Ok we did learn that the max file size that the camera will record video is 4 Gig, It has the 16 Gig card, and can record all the way till it's full. but it can not do it in just one giant file. But if you make it shoot like 30 minute blocks of video, the camera will be able to use all 16 gigs of the SD card.

Like we once set it to automatically take a picture every 15 seconds. and it did perfectly. I also took all those pictures and made a movie from them each image is there for 1/2 a second. pretty cool, it's at,

http://www.youtube.com/watch?v=c2ts4J7p2hs&

What the scrip did was more or less all on it's own press the shutter button every 15 seconds. and do it till we tell it to stop.

We are hopeing that a similar script will do the same but in the Video mode. The simple script we used to take pictures every 15 seconds. I just tried it in the camera and it still works great, but when the camera is in video mode, you see the script try to do something every 15 seconds,,, but nothing actually happens. tHERE PROBABLY IS A DIFFERENT WORDING YOU USE WHEN IT'S IN VIEDO MODE. BECAUSE YOU CAN CONTROL EVERYTHING IN THESE CAMERAS WITH THOSE SCRIPTS.THEY SAY IN THE FORUMS. IF IT IS SOMETHING YOU CAN DO BY PRESSING A BUTTON, THEN IT CAN BE DONE WITH A SCRIPT. f STOPS EXPOSEURES, TURN DISPLAYS ON OFF ALL SORSTS ANYTHING YOU CAN DO WITH PRESSING BUTTONS YOU CAN MAKE IT DO WITH THE SCRIPTS. IF YOU KNOW HOW TO WRITE THE SCRIPT THAT IS.. Wow caplock sorry gang he he he....

But what we need it to adapt one that when the camera is in video mode, the code does the equivalent of press the shutter button, (this starts the video recording) wait 30 minutes, press the shutter button again (this stops the video recording and the camera saves the file to the card) so after this second pressing we have it wait a minute to make sure it had plenty of time to close the file, and then it presses the button again and the same process starts all over again. wait another 30 min, then press button again bla bla bla.

This is for a Canon Powershot A560

Anyone willing to take a stab at this? I'm guessing for testing
purposes the full 30 min is not needed say like 5 min record 1 min
store, 5 min record, 1 min store etc. can change the 5 min to 30 later.

anyone?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/4/2010 8:35 AM, Mark Conner wrote:
>
>
> I have a Powershot A560 in use with a CHDK script. I started with the
> basic intervalometer script and made a few mods to it to do things
> like inhibit the flash and a few other settings.
>
> 73 de Mark N9XTN
>
> On Fri, Jun 4, 2010 at 07:52, <zclobes@...
> <mailto:zclobes@...>> wrote:
>
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>
> I modified one of the scripts and flew it on our 2010a flight, if
> that counts. I believe that Mark has done quite a bit with them too.
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> On Jun 3, 2010 10:22pm, Joe <nss@... <mailto:nss@...>> wrote:
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>

7192. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-04 18:17:35 UTC
From: L. Paul Verhage
Topic: 7187 Message: 7192
Attachments: 1 described; binary payloads are missing from this source WARC

I've modified the intervalometer script and the USB remote shutter. I've
been experimenting with using a BalloonSat flight computer trigger the
camera (A560).

I'd like to give the flight computer over when pictures are recorded.

It's neat stuff, I'm starting an articler for N&V about CHDK.

Paul

On Fri, Jun 4, 2010 at 8:59 AM, Joe <nss@...> wrote:

> Hi Mark and everyone else here.
>
> I was at the CHDK site and on the forum there and they say if you can do it
> with taking pictures, you can also do it when shooting video. But obviously
> a standard interlover for pictures does not work when the camera is in video
> mode. Here is as the story goes..
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> Ok we did learn that the max file size that the camera will record video is
> 4 Gig, It has the 16 Gig card, and can record all the way till it's full.
> but it can not do it in just one giant file. But if you make it shoot like
> 30 minute blocks of video, the camera will be able to use all 16 gigs of the
> SD card.
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> Like we once set it to automatically take a picture every 15 seconds. and
> it did perfectly. I also took all those pictures and made a movie from them
> each image is there for 1/2 a second. pretty cool, it's at,
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> http://www.youtube.com/watch?v=c2ts4J7p2hs&
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> What the scrip did was more or less all on it's own press the shutter
> button every 15 seconds. and do it till we tell it to stop.
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> We are hopeing that a similar script will do the same but in the Video
> mode. The simple script we used to take pictures every 15 seconds. I just
> tried it in the camera and it still works great, but when the camera is in
> video mode, you see the script try to do something every 15 seconds,,, but
> nothing actually happens. tHERE PROBABLY IS A DIFFERENT WORDING YOU USE WHEN
> IT'S IN VIEDO MODE. BECAUSE YOU CAN CONTROL EVERYTHING IN THESE CAMERAS WITH
> THOSE SCRIPTS.THEY SAY IN THE FORUMS. IF IT IS SOMETHING YOU CAN DO BY
> PRESSING A BUTTON, THEN IT CAN BE DONE WITH A SCRIPT. f STOPS EXPOSEURES,
> TURN DISPLAYS ON OFF ALL SORSTS ANYTHING YOU CAN DO WITH PRESSING BUTTONS
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> video recording) wait 30 minutes, press the shutter button again (this
> stops the video recording and the camera saves the file to the card) so
> after this second pressing we have it wait a minute to make sure it had
> plenty of time to close the file, and then it presses the button again and
> the same process starts all over again. wait another 30 min, then press
> button again bla bla bla.
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> This is for a Canon Powershot A560
>
> Anyone willing to take a stab at this? I'm guessing for testing purposes
> the full 30 min is not needed say like 5 min record 1 min store, 5 min
> record, 1 min store etc. can change the 5 min to 30 later.
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> anyone?
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> Joe
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> The Original Rolling Ball Clock
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> On 6/4/2010 8:35 AM, Mark Conner wrote:
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> I have a Powershot A560 in use with a CHDK script. I started with the
> basic intervalometer script and made a few mods to it to do things like
> inhibit the flash and a few other settings.
>
> 73 de Mark N9XTN
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> On Fri, Jun 4, 2010 at 07:52, <zclobes@...> wrote:
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>> I modified one of the scripts and flew it on our 2010a flight, if that
>> counts. I believe that Mark has done quite a bit with them too.
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>> Zack
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>> On Jun 3, 2010 10:22pm, Joe <nss@...> wrote:
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>> > Who out there has made some of their own scripts?
>> >
>> >

>> >
>> > Joe WB9SBD
>> >
>> > Near Space Sciences KB9KHO
>> >
>>
>
>

--
Onwards and Upwards,
Paul

7193. Re: [Balloonatics] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-05 05:23:55 UTC
From: Mike Manes
Topic: 7187 Message: 7193

Hi Joe,
Rick N0KKZ wrote the one we use in the SamCam.
73 de Mike W5VSI

On 6/3/2010 21:22, Joe wrote:
> Who out there has made some of their own scripts?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7194. PARIS pops down to QinetiQ • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-06 01:09:16 UTC
From: Mike Manes
Topic: 7194 Message: 7194

Hi Guys,

The PARIS project has little to do with France - instead, it's intended
carry a paper glider - APRS equipped - on a balloon and to release it at
a predetermined altitude.

This piece describes the team's effort to develop a mechanical barometically
activated release mechanism. Their best shot was to use a partially filled
hypodermic syringe rather than a surplus VIZ anaeroid bellows. It didn't
work so well, but what's eye-popping is the altitude chamber they tested it
in. Maybe they haven't heard of VIZ or Harbor Freight Tools? Or the EOSS
barometrically-armed fast release device ...

http://www.theregister.co.uk/2010/06/03/paris_qinetiq_test/

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7195. SpaceX Falcon 9 achieves orbit on m aiden flight • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-07 04:11:52 UTC
From: Mike Manes
Topic: 7195 Message: 7195

For those bemoaning the end of the US manned space program, take
a look. It's just moving to the private sector.

http://www.theregister.co.uk/2010/06/04/spacex_falcon_9_in_orbit/

EOSS flew a GPS windsonde for SpaceX back in its salad days a good
while ago. That was in prep for their shot at the X prize out of Black
Rock NV. They've come a long way since then!

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7196. Re: [GPSL] SpaceX Falcon 9 achieves orbit on maiden flight • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-07 13:28:44 UTC
From: L. Paul Verhage
Topic: 7195 Message: 7196

One of the KU students I've launched balloons with was just hired by them.

Lucky guy, if I were only 30 years younger.

Paul

On Sun, Jun 6, 2010 at 11:11 PM, Mike Manes <mrmanes@...> wrote:

> For those bemoaning the end of the US manned space program, take
> a look. It's just moving to the private sector.
>
> http://www.theregister.co.uk/2010/06/04/spacex_falcon_9_in_orbit/
>
> EOSS flew a GPS windsonde for SpaceX back in its salad days a good
> while ago. That was in prep for their shot at the X prize out of Black
> Rock NV. They've come a long way since then!
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> 73 de Mike W5VSI
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7197. Re: [GPSL] SpaceX Falcon 9 achieves orbit on maiden flight • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-07 13:43:35 UTC
From: Hank Riley
Topic: 7197 Message: 7197

> One of the KU students I've launched balloons with was just hired by them.

Paul,

That's cool, but we want more info!

What's this guy going to do for SpaceX as a start?
What was his field of study?
Is this his first job?

Hank

7198. Re: [GPSL] SpaceX Falcon 9 achieves orbit on maiden flight • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-07 14:49:35 UTC
From: L. Paul Verhage
Topic: 7197 Message: 7198

This is his first job out of school and he's an aerospace engineer. I don't know what the job is, but SpaceX flew him to LA for the interview.

Paul

On Mon, Jun 7, 2010 at 8:43 AM, Hank Riley <n1ltv@...> wrote:

> > One of the KU students I've launched balloons with was just hired by
> them.
>
> Paul,
>
> That's cool, but we want more info!
>
> What's this guy going to do for SpaceX as a start?
> What was his field of study?
> Is this his first job?
>
> Hank
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>

--
Onwards and Upwards,
Paul

7199. Another sponsor

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-08 18:26:03 UTC
From: L. Paul Verhage
Topic: 7199 Message: 7199

Keith, please list Electronic Goldmine as a sponsor. Here's their URL.
http://goldmine-elec.com/

--
Onwards and Upwards,
Paul

7200. T-shirts?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-09 18:40:34 UTC
From: L. Paul Verhage
Topic: 2304 Message: 7200

Any t-shirt ideas for GPSL 2010?

Paul

--
Onwards and Upwards,
Paul

7201. BASE 43 is still a go

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-10 03:58:49 UTC
From: BASE
Topic: 7201 Message: 7201

Dear friends,

Everything is looking good for our launch on Thursday, 10 June from Bowman Park on the DePauw Campus. Launch will occur shortly after 12:30 UTC. The launch is being held during Alumni Weekend and may be delayed for audience questions.

Attempted ascent rate between 1000 and 1100 ft/min (5 meters/sec). Using a 1200 gram Kaymont/Totex with helium and a payload weight of 6 pounds. Primary payload are two energy discriminating geiger counters. Also carrying a DXG 506-V video camera to take picture of ground (including crowd at launch).

Predicted landing near Elizabethtown, IN approx. 65 miles downrange at a heading of 120 degrees.

Primary data and radio on 900 MHz spread spectrum. APRS should be under W9YJ-11 on 144.39 MHz every two minutes with no path.

Thanks for your support,
Howard

7202. BASE 43 essentially complete

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-10 23:37:24 UTC
From: BASE
Topic: 7202 Message: 7202

Dear friends,

BASE 43 was a good flight today. Released into calm clear skies at 12:52 UTC. Maximum altitude of 95,000 feet. Troposphere jet stream was a little slower than the models, lower stratosphere winds were stronger. This combination led to landing about 10 miles northwest of the prediction. Flight string successfully captured by the top of an 80 foot tree.

The property owner is very friendly. He had already scheduled a tree cutter to come next week and remove two dead trees. He is confident that the cutter will be able to extract the payloads, if the thunderstorms this weekend don't do the job first.

Additional details will be posted on the www.depauw.edu/acad/physics/base web pages.

Thanks for your support and interest.

Howard

7203. Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 14:43:22 UTC
From: Roger Hammond
Topic: 7203 Message: 7203

The Grand Island, NE amateur radio club is joining forces with a couple of surrounding cities, Kearney and Hastings, for Field Day this year. They've asked me to do an ARHAB demo. I have some small 100 gram balloons that I'm considering launching with a CW only beacon on it. Something reasonably inexpensive that I don't have to worry about chasing or retrieving. The beacon I've come up with is made from a PICAXE processor with one of those $4 sparkfun UHF transmitters. Unfortunately, it sounds best on AM. I'm looking for something cheap, disposable, but effective. Any thoughts?

Rog KC0MWM

7204. Re: Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 15:27:59 UTC
From: n1ltv
Topic: 7203 Message: 7204

> The beacon I've come up with is made from a PICAXE processor with
> one of those $4 sparkfun UHF transmitters. Unfortunately, it
> sounds best on AM.

Because the FM component is incidental, the range will not
be nearly as good as with AM. A narrower bandwidth such as
is common with AM, or better yet CW, will help the range a lot,
but unfortunately these UHF transmitters do not have anywhere
near the stability that a crystal-controlled oscillator
would attain.

The PICAXE part is good for its fairly low cost and excellent
speed to develop an application (wondering how much advance
notice you had for this request). Only a raw PIC, Atmel, or
similar low pin count microcontroller would be cheaper at under
a dollar.

> I'm looking for something cheap, disposable, but effective. Any
> thoughts?

Absolutely!

At Skyquest we've launched nothing but expendables and all
transmitted data (temp and sometimes pressure). All fell in
the ocean and all were lost; no attempt made to recover any
of them

Although we usually used better, real transmitters, I was
amazed at the range that a simple clock oscillator would
provide on 10 meters SSB when we tried one once. These are
in the dollar price range and can be less than that if
surplus.

There is at least one standard clock frequency that covers
both 10 meters and 2 meters. As I remember I did not have the
chance to listen on 2 meters, but the balloon and signal lasted
so long on 10 meters (maybe 4 hours) I finally stopped listening
to it so don't know how long it took to either land or run
out of power.

For a battery suggest you use either a 9 volt alkaline or
lithium, or just some AA alkalines soldered together or in
a plastic holder. I know soldering alkalines without tab
terminals is not ideal, but with a little extra paste
flux applied and attention to soldering as quickly as
possible, perhaps with a damp cloth or paper towel around
the cell end to sink heat, it can be done without damaging

the cell.

For antenna I used a full length dipole of 5 meters length,
with half (about 8 feet) going up the balloon load line and
half hanging down.

Feel free to email me on or off list for more info about light
expendable transmitters.

Hank
Skyquest (Massachusetts)

7205. Re: Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 16:49:04 UTC
From: n1ltv
Topic: 7203 Message: 7205

> For a battery suggest you use either a 9 volt alkaline or
> lithium, ...

That's a standard size "transistor radio" 9 volt battery
available as a primary lithium (not rechargeable).

The predominant brand, as far as retail availability goes,
is Ultralife, which used to, and may still be available,
at Radio Shack retail stores.

7206. Re: [GPSL] Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 18:28:34 UTC
From: wb8elk@aol.com
Topic: 7203 Message: 7206

Roger....The SparkFun 434 MHz modules do indeed sound best on AM when modulating them, I have mine doing RTTY and also DominoEX....but they do have some FM component to them, although very weak deviation. If you insulate them well, you can run them as a straight CW transmitter which works great for tracking as you also can pick it up on an FM receiver as an on/off carrier for DFing....although when receiving in CW mode be prepared to tune around since they can drift a few kHz. I use my Kenwood TH-F6A multi-mode handheld in the car and in the field when DFing this.

I have some info and a program to do CW and also AM modulated CW on the SparkFun 434 module using an Arduino board on my website under the "Payload Designs" link.

http://www.wb8elk.com

I'm planning to fly just such a setup this weekend as an ozonesonde hitchhiker since the whole thing including the 9-volt lithium battery weighs just 3 ounces....I put a lightweight wooden dowel rod on it for a vertical wire dipole and wrap the transmitter and battery with 3 layers of small-cell bubblewrap....the large-cell bubble wrap bursts but the small-cell stuff works just fine and makes for a very lightweight payload. My tests show that it'll stay above freezing this way due to the solar greenhouse effect...particularly if you wrap everything with black duct inside.

I'm planning a Field Day launch with a simplex repeater on 144.34 MHz from Huntsville, AL...probably around 1 pm on Saturday of Field Day.

- Bill WB8ELK

-----Original Message-----
From: Roger Hammond <kc0mwm@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Fri, Jun 11, 2010 9:43 am
Subject: [GPSL] Field Day balloon

The Grand Island, NE amateur radio club is joining forces with a couple of surrounding cities, Kearney and Hastings, for Field Day this year. They've asked me to do an ARHAB demo. I have some small 100 gram balloons that I'm considering launching with a CW only beacon on it. Something reasonably inexpensive that I don't have to worry about chasing or retrieving. The beacon I've come up with is made from a PICAXE processor with one of those $4 sparkfun UHF transmitters. Unfortunately, it sounds best on AM. I'm looking for something cheap, disposable, but effective. Any thoughts?

Rog KC0MWM

7207. Re: [GPSL] Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 18:33:25 UTC
From: Zack Clobes
Topic: 7203 Message: 7207

Could you tug at the UHF modules a bit by modulating a varactor on the
output with a square/PWM output from the uC?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Fri, Jun 11, 2010 at 1:28 PM, <wb8elk@aol.com> wrote:

>
>
> Roger....The SparkFun 434 MHz modules do indeed sound best on AM when
> modulating them, I have mine doing RTTY and also DominoEX....but they do
> have some FM component to them, although very weak deviation. If you
> insulate them well, you can run them as a straight CW transmitter which
> works great for tracking as you also can pick it up on an FM receiver as an
> on/off carrier for DFing....although when receiving in CW mode be prepared
> to tune around since they can drift a few kHz. I use my Kenwood TH-F6A
> multi-mode handheld in the car and in the field when DFing this.
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> I have some info and a program to do CW and also AM modulated CW on the
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> wire dipole and wrap the transmitter and battery with 3 layers of small-cell
> bubblewrap....the large-cell bubble wrap bursts but the small-cell stuff
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>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Roger Hammond <kc0mwm@...>
> To: GPSL list <GPSL@yahoogroups.com>
> Sent: Fri, Jun 11, 2010 9:43 am

> Subject: [GPSL] Field Day balloon
>
>
> The Grand Island, NE amateur radio club is joining forces with a couple
> of surrounding cities, Kearney and Hastings, for Field Day this year.
> They've asked me to do an ARHAB demo. I have some small 100 gram balloons
> that I'm considering launching with a CW only beacon on it. Something
> reasonably inexpensive that I don't have to worry about chasing or
> retrieving. The beacon I've come up with is made from a PICAXE processor
> with one of those $4 sparkfun UHF transmitters. Unfortunately, it sounds
> best on AM. I'm looking for something cheap, disposable, but effective. Any
> thoughts?
>
> Rog KC0MWM
>
>

7208. Re: [GPSL] Re: Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 18:33:34 UTC
From: wb8elk@aol.com
Topic: 7203 Message: 7208

The cheapest source of the Ultralife Lithium 9-volt battery that I use for SparkFun transmitter beacon is from Lowes near their smoke alarm section....about half the price that you would find at Rad Shack.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Fri, Jun 11, 2010 11:49 am
Subject: [GPSL] Re: Field Day balloon

> For a battery suggest you use either a 9 volt alkaline or
> lithium, ...

That's a standard size "transistor radio" 9 volt battery
available as a primary lithium (not rechargeable).

The predominant brand, as far as retail availability goes,
is Ultralife, which used to, and may still be available,
at Radio Shack retail stores.

7209. Re: [GPSL] Re: Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 20:00:54 UTC
From: Roger Hammond
Topic: 7203 Message: 7209

Bill and Zack,

I think I still have a few 9 V Lithiums leftover from when I was doing larger APRS flights, which I'd like to return to if I ever get some time to build some more goodies. Thanks for the tip on the lower priced 9 volts. Zack, if I had a little more time I'd pick your brain on what your recommending I try. Unfortunately, I'm out of town most of next week and will probably have to stick to the CW beacon and listen on 433-something MHz AM.

Thanks all for the information, thus far.

Rog KC0MWM

On Fri, Jun 11, 2010 at 1:33 PM, <wb8elk@...> wrote:

>
>
> The cheapest source of the Ultralife Lithium 9-volt battery that I use for
> SparkFun transmitter beacon is from Lowes near their smoke alarm
> section....about half the price that you would find at Rad Shack.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: n1ltv <n1ltv@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Jun 11, 2010 11:49 am
> Subject: [GPSL] Re: Field Day balloon
>
>
> > For a battery suggest you use either a 9 volt alkaline or
> > lithium, ...
>
> That's a standard size "transistor radio" 9 volt battery
> available as a primary lithium (not rechargeable).
>
> The predominant brand, as far as retail availability goes,
> is Ultralife, which used to, and may still be available,
> at Radio Shack retail stores.
>
>
>
>

7210. An odd request...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 20:33:05 UTC
From: Zack Clobes
Topic: 7210 Message: 7210

Does anyone have any photos of helium/hydrogen tanks that I can use on the shopping cart of the GPSL site?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7211. Re: [GPSL] Field Day balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-11 22:23:26 UTC
From: Mark Garrett
Topic: 7203 Message: 7211

What about using a TTL oscillator that you could get from a junk video card. Something like 28.322 or 14.320 or what would have a primary or secondary land in the ham band. Then cut the antenna for the frequency you want to use.

Mark, KA9SZX

From: Roger Hammond <kc0mwm@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Fri, June 11, 2010 9:43:22 AM
Subject: [GPSL] Field Day balloon

The Grand Island, NE amateur radio club is joining forces with a couple
of surrounding cities, Kearney and Hastings, for Field Day this year.
They've asked me to do an ARHAB demo. I have some small 100 gram
balloons that I'm considering launching with a CW only beacon on it. Something reasonably inexpensive that I don't have to worry about chasing or retrieving. The beacon I've come up with is made from a PICAXE processor with one of those $4
sparkfun UHF transmitters. Unfortunately, it sounds best on AM. I'm
looking for something cheap, disposable, but effective. Any thoughts?

Rog KC0MWM

7212. Participation Survey - DUE TOMORROW!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 01:29:54 UTC
From: Zack Clobes
Topic: 7212 Message: 7212

If you haven't already, PLEASE fill out the Participation Survey (
http://spreadsheets.google.com/viewform?hl=en&formkey=dDNMTHktaGM1blluWG1ZNHhfTWgtU1E6MQ)
by tomorrow evening so that I can plan correctly for food and activities.

If you know of anyone else that may be interested in attending (EVEN IF THEY
AREN'T FLYING A BALLOON), please have them fill this survey out!

Currently, I have:
Traveler
WB8ELK
Near Space Ventures
BASE-DePauw
ORB
EOSS
ARBONET
Dryden Engineering
DiyShip
ROBOMO

Thanks,
Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7213. Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 01:50:16 UTC
From: Zack Clobes
Topic: 7213 Message: 7213

I have all of the prices finalized for Helium and the conference.

The final cost of gas came in a higher than was orignally posted on the web, although that's a bit mis-leading. The price originally posted was basically the base price of the gas, but the price to pay includes gas, tax, hazardous material charge, delivery/pickup, and a small bit to cover the credit card charge to Google Checkout. I hope that you understand - I'm not here to make money but, but I'm trying not to lose any either.. :-)

Without further ado...
http://www.custom-ds.com/gpsl2010

Regarding the $20 conference fee, once you add it to your cart, you can alter the quantity (for example, if the group wants to pay as a whole, or husband/wife/child combinations). I will follow up individually with the purchases to find out specifically who the payments are for.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7214. Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 19:05:24 UTC
From: L. Paul Verhage
Topic: 7214 Message: 7214

I would be interested in flying with hydrogen at GPSL this year. I can get a filler converted over, but would like to work with someone filling my first H2 balloon. Could someone with experience help me out this year?

--
Onwards and Upwards,
Paul

7215. HoverBot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 19:29:03 UTC
From: L. Paul Verhage
Topic: 7215 Message: 7215

I produced a short video on the HoverBot robot. Its now to the point that it can navigate. Watch the video on y YouTube channel (www.YouTube.com/NearSys <http://www.youtube.com/NearSys>) or at this link, http://www.youtube.com/watch?v=TU-0X3Bdz3A

--
Onwards and Upwards,
Paul

7216. Re: [GPSL] Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 19:45:06 UTC
From: HarryM
Topic: 7213 Message: 7216

Hi Zack,

Would you refresh my memory on the cu/ft of a K & T tank. I think a T is 297 cu/ft. They don't use the letter designations around here.

73 Harry KC5TRB

7217. Re: [GPSL] Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 19:49:07 UTC
From: Zack Clobes
Topic: 7213 Message: 7217

Good question. I've updated the order form also, but the K is supposedly good for 244cuft, and the T is good for 291cuft.

Zack

On Sun, Jun 13, 2010 at 2:45 PM, HarryM <hhm_74115@...> wrote:

>
>
>
> Hi Zack,
>
> Would you refresh my memory on the cu/ft of a K & T tank. I think a T is
> 297 cu/ft. They don't use the letter designations around here.
>
> 73 Harry KC5TRB
>
>
>
>

7218. Re: HoverBot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 19:56:40 UTC
From: n1ltv
Topic: 7215 Message: 7218

> I produced a short video on the HoverBot robot. It's now to
> the point that it can navigate.

Paul,

Nice job with this flying gizmo.

The video also looks nice.

I believe there is at least one mistake, though, in the script
regarding rotation of the craft around 2:30 of the video.
I think if you listen carefully you'll know what I'm
talking about.

Since you often interact with students, I hope you can correct
that flaw.

Hank

7219. Re: [GPSL] Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:01:28 UTC
From: HarryM
Topic: 7213 Message: 7219

Thanks!

Good question. I've updated the order form also, but the K is supposedly good for 244cuft, and the T is good for 291cuft.

7220. Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:03:04 UTC
From: n1ltv
Topic: 7214 Message: 7220

> I would be interested in flying with hydrogen at GPSL this year.

Has anyone ever presented a GPSL talk specifically about their techniques and experience with hydrogen?

I know Joe is an old hand at hydrogen (I think 100% of NSSL flights with H2), and I think it's been used at GPSL before, but wondering about whether a talk or Q + A has ever been done before.

Might be something to think about for this year.

When does a schedule of talks usually get firmed up and posted?

Hank

7221. Re: [GPSL] Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:03:25 UTC
From: HarryM
Topic: 7213 Message: 7221

I know nothing about using GOOGLE Checkout.
Can we use PayPal?

7222. Re: [GPSL] Helium Orders and Conference Pre-pay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:06:07 UTC
From: HarryM
Topic: 7213 Message: 7222

Never mind. I think I can figure it out.

I know nothing about using GOOGLE Checkout.
Can we use PayPal?

7223. Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:11:23 UTC
From: n1ltv
Topic: 7214 Message: 7223

> I know Joe is an old hand at hydrogen (I think 100%
> of NSSL flights with H2)

That's NSS; forgot to check that name before sending.

Hank

7224. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 20:56:38 UTC
From: pete sias
Topic: 7214 Message: 7224

Hi all,

When using hydrogen, the tank requires a different thread for regulator attachment versus helium and at the time I bought my H setup the vendor strongly recommended using a regulator made for hydrogen use. I can provide my fill system to Paul and others.
6% more lift per volume and cheaper than He plus it is a good choice to keep the crowds away during filling.....

Pete N0OY

--- On Sun, 6/13/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Hydrogen
To: gpsl@yahoogroups.com
Date: Sunday, June 13, 2010, 2:05 PM

I would be interested in flying with hydrogen at GPSL this year. I can get a filler converted over, but would like to work with someone filling my first H2 balloon. Could someone with experience help me out this year?

--
Onwards and Upwards,
Paul

7225. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 21:07:46 UTC
From: L. Paul Verhage
Topic: 7214 Message: 7225

Pete, are you launching at GPSL? If not, can you be on my team?

Paul

On Sun, Jun 13, 2010 at 3:56 PM, pete sias <petesias@...> wrote:

>
>
> Hi all,
>
> When using hydrogen, the tank requires a different thread for regulator
> attachment versus helium and at the time I bought my H setup the vendor
> strongly recommended using a regulator made for hydrogen use. I can provide
> my fill system to Paul and others.
> 6% more lift per volume and cheaper than He plus it is a good choice to
> keep the crowds away during filling.........
>
> Pete N0OY
>
> --- On *Sun, 6/13/10, L. Paul Verhage <nearsys@...>* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] Hydrogen
> To: gpsl@yahoogroups.com
> Date: Sunday, June 13, 2010, 2:05 PM
>
>
>
> I would be interested in flying with hydrogen at GPSL this year. I can get
> a filler converted over, but would like to work with someone filling my
> first H2 balloon. Could someone with experience help me out this year?
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

7226. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 21:15:28 UTC
From: pete sias
Topic: 7214 Message: 7226

I haven't finalized my plans for GPSL but if I am back from Lima in time (doing a balloon / nano satellite thing with the university there) I will be in Hutch with a few KWU students.
So we will be glad to help out. Let me know if you want the Hydrogen fill equipment and I will get it to you before GPSL.

Pete NØOY

--- On Sun, 6/13/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Hydrogen
To: GPSL@yahoogroups.com
Date: Sunday, June 13, 2010, 4:07 PM

Pete, are you launching at GPSL? If not, can you be on my team?

Paul

On Sun, Jun 13, 2010 at 3:56 PM, pete sias <petesias@yahoo. com> wrote:

Hi all,

When using hydrogen, the tank requires a different thread for regulator attachment versus helium and at the time I bought my H setup the vendor strongly recommended using a regulator made for hydrogen use. I can provide my fill system to Paul and others.

6% more lift per volume and cheaper than He plus it is a good choice to keep the crowds away during filling..... ....

Pete N0OY

--- On Sun, 6/13/10, L. Paul Verhage <nearsys@gmail. com> wrote:

From: L. Paul Verhage <nearsys@gmail. com>
Subject: [GPSL] Hydrogen

To: gpsl@yahoogroups. com
Date: Sunday, June 13, 2010, 2:05 PM

I would be interested in flying with hydrogen at GPSL this year. I can get a filler converted over, but would like to work with someone filling my first H2 balloon. Could someone with experience help me out this year?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

7227. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 21:54:31 UTC
From: Mike Manes
Topic: 7214 Message: 7227

Hi Pete,

EOSS has abandoned use of a regulator in its He fill rig. Too many problems with it freezing up in humid conditions. We now use just the tank valve to control fill flow rate. Now, I know that cracking a tank valve into open air can ignite a flame, and even if it's connected to a fill hose that's full of air, one may hear a "pop" as that incipient flame consumes the nearby air in the hose. But does a regulator confer any special safety or other benefit when used with H2?

BTW, I think a K bottle contains about 195 SCF of He and 295 in a T.

73 de Mike W5VSI

On 6/13/2010 14:56, pete sias wrote:
>
>
> Hi all,
>
> When using hydrogen, the tank requires a different thread for regulator
> attachment versus helium and at the time I bought my H setup the vendor
> strongly recommended using a regulator made for hydrogen use. I can
> provide my fill system to Paul and others.
> 6% more lift per volume and cheaper than He plus it is a good choice to
> keep the crowds away during filling.....
>
> Pete N0OY
>
> --- On *Sun, 6/13/10, L. Paul Verhage /<nearsys@...>/* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] Hydrogen
> To: gpsl@yahoogroups.com
> Date: Sunday, June 13, 2010, 2:05 PM
>
> I would be interested in flying with hydrogen at GPSL this year. I
> can get a filler converted over, but would like to work with someone
> filling my first H2 balloon. Could someone with experience help me
> out this year?
>
> --
> Onwards and Upwards,
> Paul
>
>

>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7228. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 22:58:05 UTC
From: pete sias
Topic: 7214 Message: 7228

Hi Mike,

If I were to guess as to why a special regulator for Hydrogen would probably be towards leak resistance. Because of Hydrogen's small molecular size it could leak out of a quote 'gas tight' system made for other gases. Plus I think they use a stainless steel diaphragm because it can dissolve into some metals. It could make some metals brittle.....

Some notes;

 I worry about self heating when it is released which could cause ignition (0.02 millijoules is all it takes with a air mixture from 4% to 74%) This is the reason you can get a nearly invisible flame from just 'cracking the valve to clean it' the reason I fill at a low rate.

To reduce static discharge as an ignition source I bond the tank, to the fill nozzle attachment point and earth ground with a bare wire. Not trying to bleed off any charge but to insure no voltage gradient is present. I then 'bond on' at the tank before I move to hold the nozzle. I also stay under the envelope when working to tie it off, in no case anyone is allowed to touch the envelope out of static fear.....actually if the hydrogen is pure, it should not explode inside the envelope, but who wants to ruin a good balloon day by chance??

Before I started using hydrogen I visited a FAA wx station and looked at their equipment for filling and releasing balloons. The one at Dodge City, KS used a separate concrete block building with an automatic fill system operated from a separate room. Once the balloon is filled the operator then goes into the room to tie it off, attach the payload, and open a large door for walking it outside to release. A fair amount of electrical bonding was done if I remember correctly. I think they thought I was a little crazy at the time for wanting to use hydrogen instead of He,,,,,but now with the prices.....

Maybe a demo of hydrogen use at GPSL, like from the Mr. Wizard days. What will really happen if we had a static discharge on the envelope. Or where will the fireball go after ignition???? Maybe the Myth busters have done this.

73'

Pete

--- On Sun, 6/13/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] Hydrogen
To: "pete sias" <petesias@...>, "Zack Clobes" <zclobes@...>
Cc: GPSL@yahoogroups.com
Date: Sunday, June 13, 2010, 4:54 PM

Hi Pete,

EOSS has abandoned use of a regulator in its He fill rig. Too many problems with it freezing up in humid conditions. We now use just the tank valve to control fill flow rate. Now, I know that cracking a tank valve into open air can ignite a flame, and even if it's connected to a fill hose that's full of air, one may hear a "pop" as that incipient flame consumes the nearby air in the hose. But does a regulator confer any special safety or other benefit when used with H2?

BTW, I think a K bottle contains about 195 SCF of He and 295 in a T.

73 de Mike W5VSI

On 6/13/2010 14:56, pete sias wrote:

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>

> Pete N0OY

>

> --- On *Sun, 6/13/10, L. Paul Verhage /<nearsys@...>/* wrote:

>

>

> From: L. Paul Verhage <nearsys@...>

> Subject: [GPSL] Hydrogen

> To: gpsl@yahoogroups.com

> Date: Sunday, June 13, 2010, 2:05 PM

>

> I would be interested in flying with hydrogen at GPSL this year. I

> can get a filler converted over, but would like to work with someone

> filling my first H2 balloon. Could someone with experience help me

> out this year?

>

> --

> Onwards and Upwards,

> Paul

>

>

>

>

>

--

Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

7229. Re: [GPSL] Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-13 23:28:10 UTC
From: Mike Manes
Topic: 7214 Message: 7229

Hi Pete,

Some of us in EOSS began looking into converting to H2 a few years ago. We learned about the puny ignition energy and static discharge precautions, as well as what Joe WA9SBD has done to achieve over 50 safe fills during his 20 years of ballooning.

Expanding gas experiences adiabatic cooling, and that's what caused our He regulators to freeze up, causing frustrating launch delays. However, the intense vortexes created when passing 2300 PSI H2 directly into the atmosphere have very high pressure and temperature hypersonic cores which I suspect can cause ignition. And this phenomenon is well known in the petroleum industry, which prohibits open compressed H2 valve cracking. But the pop that occurs inside an attached line is benign, albeit alarming to those who don't expect it; once it's consumed the nearby O2, it's over.

The largest impediment to our conversion has frankly been the "Hindenberg Effect" - so we'll just bide our time until the cost of He soars higher than our balloons.

I applaud the idea of session at the 2010 GPSL on how to use H2 for fill gas safely. If one was done during the past two GPSLs, I regret missing it.

BTW, I've been told that all NWS RAOB sites, even those near Amarillo, have switched to H2 due to the soaring cost of He. The blockhouse structure used for RAOB filling is more of a precaution against accumulated H2 due to slow leaks from the bottles stored in there than to the possibility of ignition attributable to the fill process. Since we store our gas and do our fills outside on the ground, we just need to provide ground bonding on the fill rig.

73 de Mike W5VSI
CTO EOSS

On 6/13/2010 16:58, pete sias wrote:
>
>
> Hi Mike,
>
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> probably be towards leak resistance. Because of Hydrogen's small
> molecular size it could leak out of a quote 'gas tight' system made for
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> fill nozzle attachment point and earth ground with a bare wire. Not
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> their equipment for filling and releasing balloons. The one at Dodge
> City, KS used a separate concrete block building with an automatic fill
> system operated from a separate room. Once the balloon is filled the
> operator then goes into the room to tie it off, attach the payload, and
> open a large door for walking it outside to release. A fair amount of
> electrical bonding was done if I remember correctly. I think they
> thought I was a little crazy at the time for wanting to use hydrogen
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> 73'
>
> Pete
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>
>
> --- On *Sun, 6/13/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] Hydrogen
> To: "pete sias" <petesias@...>, "Zack Clobes" <zclobes@...>
> Cc: GPSL@yahoogroups.com
> Date: Sunday, June 13, 2010, 4:54 PM
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> that's full of air, one may hear a "pop" as that incipient flame
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> the nearby air in the hose. But does a regulator confer any special
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> or other benefit when used with H2?
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> choice to
> > keep the crowds away during filling.........
> >
> > Pete N0OY
> >
> > --- On *Sun, 6/13/10, L. Paul Verhage /<nearsys@...
> </mc/compose?to=nearsys%40gmail.com>>/* wrote:
> >
> >
> > From: L. Paul Verhage <nearsys@...
> </mc/compose?to=nearsys%40gmail.com>>
> > Subject: [GPSL] Hydrogen
> > To: gpsl@yahoogroups.com </mc/compose?to=gpsl%40yahoogroups.com>
> > Date: Sunday, June 13, 2010, 2:05 PM
> >
> > I would be interested in flying with hydrogen at GPSL this year. I
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> > out this year?
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> > Onwards and Upwards,
> > Paul
> >
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>
> --
> Mike Manes mrmanes@... </mc/compose?to=mrmanes%40gmail.com>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7230. Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 01:54:52 UTC
From: Nicholas
Topic: 7214 Message: 7230

Paul, I answered that question in June of 2007 and provided the McMaster part numbers....
Check out message # 3277.

Best Regards,
Nick Stich
K0NMS

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I would be interested in flying with hydrogen at GPSL this year. I can get
> a filler converted over, but would like to work with someone filling my
> first H2 balloon. Could someone with experience help me out this year?
>
> --
> Onwards and Upwards,
> Paul
>

7231. Re: [GPSL] Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 13:30:24 UTC
From: L. Paul Verhage
Topic: 7214 Message: 7231

I have the adapter, I would just like to do my first H2 fill with someone
who has expereince.

Zack, I saw your message about first public H2 fills at GPSL. How would you
fell if I filled with a crew who had already done an H2 fill?

Paul

On Sun, Jun 13, 2010 at 8:54 PM, Nicholas <NStich@...> wrote:

>
> Paul, I answered that question in June of 2007 and provided the McMaster
> part numbers.... Check out message # 3277.
>
> Best Regards,
> Nick Stich
> K0NMS
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > I would be interested in flying with hydrogen at GPSL this year. I can
> get
> > a filler converted over, but would like to work with someone filling my
> > first H2 balloon. Could someone with experience help me out this year?
> >
> > --
> > Onwards and Upwards,
> > Paul
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> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

7232. Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 15:14:23 UTC
From: Jerry
Topic: 7232 Message: 7232

Just wondering if you have any estimate on the number of Balloons that are expected to be launched Saturday.

7233. Re: [GPSL] Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 15:20:26 UTC
From: L. Paul Verhage
Topic: 7232 Message: 7233

The record has been 10.

I remember thinking what a record it was for GPSL 2001, we had three
balloons going up.

Paul

On Mon, Jun 14, 2010 at 10:14 AM, Jerry <jerrygable@...> wrote:

> Just wondering if you have any estimate on the number of Balloons that are
> expected to be launched Saturday.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7234. Re: [GPSL] Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 15:43:45 UTC
From: Keith Kaiser
Topic: 7232 Message: 7234

http://www.arhab.org/ARHABlaunchannouncements.html

Is the official list but not everyone sends me a posting for it.

On Jun 14, 2010, at 10:14 AM, Jerry wrote:

> Just wondering if you have any estimate on the number of Balloons that are expected to be launched Saturday.
>
>

7235. Re: Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 16:20:24 UTC
From: Jerry
Topic: 7232 Message: 7235

Thanks Keith, but to be a little more specific on my question, Does anyone know how many balloons are expected to be launched at GPSL this year?

--- In GPSL@yahoogroups.com, Keith Kaiser <wa0tjt@...> wrote:
>
> http://www.arhab.org/ARHABlaunchannouncements.html
>
> Is the official list but not everyone sends me a posting for it.
>
> On Jun 14, 2010, at 10:14 AM, Jerry wrote:
>
> > Just wondering if you have any estimate on the number of Balloons that are expected to be launched Saturday.
> >
> >
>

7236. Re: [GPSL] Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 16:31:07 UTC
From: Zack Clobes
Topic: 7232 Message: 7236

I have 12 groups that have stated that they are flying, and I believe at least one of the groups will be flying two balloons.

I currently have 6 tanks of gas paid for.

Zack

On Mon, Jun 14, 2010 at 10:14 AM, Jerry <jerrygable@...> wrote:

>
>
> Just wondering if you have any estimate on the number of Balloons that are
> expected to be launched Saturday.
>
>
>

7237. Re: [GPSL] Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 16:34:48 UTC
From: L. Paul Verhage
Topic: 7232 Message: 7237

Zack, I got an email where Google said how much money I'll have to pay, but
when do I actually pay?

Paul

On Mon, Jun 14, 2010 at 11:31 AM, Zack Clobes <zclobes@...> wrote:

>
>
> I have 12 groups that have stated that they are flying, and I believe at
> least one of the groups will be flying two balloons.
>
> I currently have 6 tanks of gas paid for.
>
> Zack
>
> On Mon, Jun 14, 2010 at 10:14 AM, Jerry <jerrygable@...> wrote:
>
>>
>>
>> Just wondering if you have any estimate on the number of Balloons that are
>> expected to be launched Saturday.
>>
>>
>
>
>

--
Onwards and Upwards,
Paul

7238. Re: [GPSL] Launch count

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 16:42:40 UTC
From: Zack Clobes
Topic: 7232 Message: 7238

Once you've clicked the checkout option, you should have a subtotal. Once you're at the next screen, you should be prompted to either log into your Google (Checkout) account, or create a new account.

Zack

On Mon, Jun 14, 2010 at 11:34 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Zack, I got an email where Google said how much money I'll have to pay, but
> when do I actually pay?
>
> Paul
>
> On Mon, Jun 14, 2010 at 11:31 AM, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> I have 12 groups that have stated that they are flying, and I believe at
>> least one of the groups will be flying two balloons.
>>
>> I currently have 6 tanks of gas paid for.
>>
>> Zack
>>
>> On Mon, Jun 14, 2010 at 10:14 AM, Jerry <jerrygable@...> wrote:
>>
>>>
>>>
>>> Just wondering if you have any estimate on the number of Balloons that
>>> are expected to be launched Saturday.
>>>
>>>
>>
>>
>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

7239. Syntra, foamed PVC

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 18:46:05 UTC
From: L. Paul Verhage
Topic: 7239 Message: 7239

I ran a thermal test this weekend on a 1/8 inch thick sheet of Syntra. After having a plastic zip tie break in near space, I wanted to test if Syntra gets brittle at cold temperatures. After sitting in a styrofoam box with dry ice for over an hour, the Syntra was still flexible and did not break when I bent it.

I would be curious to know if this is the experience of other people. I'm planning to use Syntra brackets in near sapce applications. For my upcoming mission, they will hold a $150 camera to the near spacecraft. Near space forbid that bracket break from post-burst choas (PBC).

--
Onwards and Upwards,
Paul

7240. GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 19:45:24 UTC
From: L. Paul Verhage
Topic: 7240 Message: 7240

What about the theme, "Near Space is the Place" for a t-shirt?

Can we use a photo of the Cosmosphere on the t-shirts?

Or perhaps we could use, "My balloon went to near space and all I got was this lousy t-shirt".

--
Onwards and Upwards,
Paul

7241. T-Shirt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 19:59:04 UTC
From: L. Paul Verhage
Topic: 7241 Message: 7241

Like previous GPSL t-shirts, this one should list the GPSL US Tour sites from earlier years.

One of these years the t-shirt won't be large enough to list all the locations.

--
Onwards and Upwards,
Paul

7242. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 20:37:37 UTC
From: Michael Willett
Topic: 7240 Message: 7242

> Or perhaps we could use, "My balloon went to near space and all I got
> was this lousy t-shirt".

This one has my vote! That is great! :)

--Michael K5NOT

7243. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 20:39:57 UTC
From: Mark Conner
Topic: 7240 Message: 7243

We could use a high-altitude photo on the back and caption it "My balloon went to near space and all I got was this lousy picture".

73 de Mark N9XTN

On Mon, Jun 14, 2010 at 14:45, L. Paul Verhage <nearsys@...> wrote:

>
>
> What about the theme, "Near Space is the Place" for a t-shirt?
>
> Can we use a photo of the Cosmosphere on the t-shirts?
>
>
> Or perhaps we could use, "My balloon went to near space and all I got was
> this lousy t-shirt".
>

7244. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 20:44:46 UTC
From: L. Paul Verhage
Topic: 7240 Message: 7244

I was thinking of using a horizon picture.

So do we want a lousy picture or a lousy t-shirt? I hear one vote for each.

Paul

On Mon, Jun 14, 2010 at 3:39 PM, Mark Conner <mconner1@...> wrote:

>
>
> We could use a high-altitude photo on the back and caption it "My balloon
> went to near space and all I got was this lousy picture".
>
> 73 de Mark N9XTN
>
>
> On Mon, Jun 14, 2010 at 14:45, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> What about the theme, "Near Space is the Place" for a t-shirt?
>>
>> Can we use a photo of the Cosmosphere on the t-shirts?
>>
>>
>> Or perhaps we could use, "My balloon went to near space and all I got was
>> this lousy t-shirt".
>>
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>

--
Onwards and Upwards,
Paul

7245. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 22:20:21 UTC
From: Zack Clobes
Topic: 7240 Message: 7245

I vote picture.

I do have some decent photos from the Cosmosphere if my stock files if you need one for the front.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Jun 14, 2010 at 3:44 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I was thinking of using a horizon picture.
>
> So do we want a lousy picture or a lousy t-shirt? I hear one vote for
> each.
>
> Paul
>
> On Mon, Jun 14, 2010 at 3:39 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> We could use a high-altitude photo on the back and caption it "My balloon
>> went to near space and all I got was this lousy picture".
>>
>> 73 de Mark N9XTN
>>
>>
>> On Mon, Jun 14, 2010 at 14:45, L. Paul Verhage <nearsys@...> wrote:
>>
>>>
>>>
>>> What about the theme, "Near Space is the Place" for a t-shirt?
>>>
>>> Can we use a photo of the Cosmosphere on the t-shirts?
>>>
>>>
>>> Or perhaps we could use, "My balloon went to near space and all I got was
>>> this lousy t-shirt".
>>>
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>>

>
>
> --
> Onwards and Upwards,
> Paul
>
>

7246. Re: [Balloonatics] WB8ELK ozonesonde hitchhiker flight results

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 22:29:47 UTC
From: Mike Manes
Topic: 7246 Message: 7246

Hi Bill,

The balloonatics reflector stripped your attached pix. Got a link?
BTW, I guess landing in a cathouse beats a buffalo or horse corral :=).

Still drying out from the rainy launch of EOSS-151 & -152. Seems "a little more gas" i.e., an extra 3 lb of neck lift, doesn't quite do it to compensate for water weight collected on a 3000 gm bag and 10 ft 'chute, but 6 lb did it OK, albeit with just a 70K' burst on -152, after passing -151 at about 40K'.

73 de Mike W5VSI

On 6/14/2010 01:30, wb8elk@... wrote:
>
>
> I flew a low-power (10 milliwatt) version of my multi-mode tracker on 144.34 MHz running DominoEX22 and 300 baud ASCII RTTY.....total payload weight of 4.5 ounces. In addition we flew a small camera payload for the local Makers Local 256 club all attached to the weekly ozonesonde from the NSSTC building near UAH-Huntsville
>
> Shane N4XWC, Barry N4MSJ, members of the Makers Local 256 club and I set out to chase....we could see the balloon visually during a good deal of the flight since it wasn't traveling very fast and we could keep close to it during the flight.
>
> It burst around 101,000 feet and only landed a mile southwest of the burst point right in downtown Decatur, AL. It was about a mile NW of Point Mallard park and a half mile south of the TN River. Donna Avenue just north of Harrison St.
>
> Although weak and being directly under the balloon in the cone of silence for a vertical antenna, we still had enough signal to get most of the DominoEX signal to keep track of the balloon position. My home station was decoding the 300 baud ASCII RTTY signal and uploading that info to the http://spacenear.us/tracker website which plotted to a Google Map.
>
> I lost half my antenna at burst but still could copy a few weak position reports a couple of minutes before landing which helped narrow the search zone on the east side of Decatur. When we were about a half mile away, Barry N4MSJ was able to DF the ozonesonde signal which allowed us to get close enough to copy the DominoEX signal on 2m to decode the final lat/lon position.
>
> It turned out that the payloads had dropped into a woman's backyard off of Donna Avenue right next to her cathouse. She has a large outbuilding and fence covering about a good portion of her yard as a cat sanctuary for two wild cats that she didn't want roaming the neighborhood after she moved to the city from the country. Her cat "Tom" seemed particularly interested in the buzzing ozonesonde sitting right next to his fenced in sanctuary.....photo of the landing site (myself and the Makers 256 team holding the

payloads). The Makers 256 club is participating in a competition called Hacker Spaces in Space to take photos in Near Space as economically as possible.
>
> You meet some interesting people when you drop things on them from 20 miles up.
>
> - Bill WB8ELK
>
> PS...landing site coordinate: 34d 35.18m, -086d 57.45m
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7247. Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 22:31:44 UTC
From: Jerry
Topic: 7247 Message: 7247

Have any of you been approached by anyone competing the "Hackers in Space Challenge" (http://workshop88.com/space/ <http://workshop88.com/space/>)?

They are sponsoring a challenge between hackerspaces to launch a balloon with <4lb payload for under $250.

Might be a place to introduce some new people to GPSL.

7248. FAA Under Pressure To Allow Drones Over U.S.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 22:45:01 UTC
From: Mike Manes
Topic: 7248 Message: 7248

The FAA's UAS rules are still bogged down at the NPRM level. Hopefully,
this pressure will grant some relief to the sorts of lightweight recovery
vehicles that we've been dreaming about.

http://www.manufacturing.net/News-FAA-Under-Pressure-To-Allow-Drones-Over-US-061410/

73 de Mike W5VSI
CTO EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7249. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 22:59:36 UTC
From: L. Paul Verhage
Topic: 7240 Message: 7249

Okay, picture it is. Thanks Mark for the idea.

I've got a picture for the front of the earth's hotrizon. Zack, can you
send me a picture of the C-sphere for the back? I'll put previous launch
dates over this image.

Paul

On Mon, Jun 14, 2010 at 5:20 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I vote picture.
>
> I do have some decent photos from the Cosmosphere if my stock files if you
> need one for the front.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> On Mon, Jun 14, 2010 at 3:44 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> I was thinking of using a horizon picture.
>>
>> So do we want a lousy picture or a lousy t-shirt? I hear one vote for
>> each.
>>
>> Paul
>>
>> On Mon, Jun 14, 2010 at 3:39 PM, Mark Conner <mconner1@...> wrote:
>>
>>>
>>>
>>> We could use a high-altitude photo on the back and caption it "My balloon
>>> went to near space and all I got was this lousy picture".
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>> On Mon, Jun 14, 2010 at 14:45, L. Paul Verhage <nearsys@...>wrote:
>>>
>>>>

>>>>
>>>> What about the theme, "Near Space is the Place" for a t-shirt?
>>>>
>>>> Can we use a photo of the Cosmosphere on the t-shirts?
>>>>
>>>>
>>>> Or perhaps we could use, "My balloon went to near space and all I got
>>>> was this lousy t-shirt".
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>> --
>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

7250. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 23:00:22 UTC
From: L. Paul Verhage
Topic: 7247 Message: 7250

Well shoot, Bill's already done that.

Paul

On Mon, Jun 14, 2010 at 5:31 PM, Jerry <jerrygable@...> wrote:

>
>
> Have any of you been approached by anyone competing the "Hackers in Space
> Challenge" (http://workshop88.com/space/)?
>
> They are sponsoring a challenge between hackerspaces to launch a balloon
> with <4lb payload for under $250.
>
> Might be a place to introduce some new people to GPSL.
>
>
>
>
>

--
Onwards and Upwards,
Paul

7251. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 23:12:15 UTC
From: Joe
Topic: 7247 Message: 7251
Attachments: 1 described; binary payloads are missing from this source WARC

Who on this list hasn't done that? he he he..

How about make it a real challenge like do everything they say you must
do and do it for less than 50 bucks.

even that would be easy.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/14/2010 6:00 PM, L. Paul Verhage wrote:
>
>
> Well shoot, Bill's already done that.
> Paul
>
> On Mon, Jun 14, 2010 at 5:31 PM, Jerry <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
>
>
> Have any of you been approached by anyone competing the "Hackers
> in Space Challenge" (http://workshop88.com/space/)?
>
> They are sponsoring a challenge between hackerspaces to launch a
> balloon with <4lb payload for under $250.
>
> Might be a place to introduce some new people to GPSL.
>
>
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>
> --
> Onwards and Upwards,
> Paul
>
>
>

7252. Re: [GPSL] FAA Under Pressure To Allow Drones Over U.S.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 23:16:59 UTC
From: Joe
Topic: 7248 Message: 7252
Attachments: 1 described; binary payloads are missing from this source WARC

tOO BAD THEY CANT TAKE THE EXACT SAME RULES OF 101 AND APPLY THEM.

WEIGHT,, DENSITIES ETC. IF IT'S LIKE AN EXEMPT BALLOON FLIGHT, IT'S
FINE TO FLY. WHY SHOULD IT MAKE ANY DIFFERENCE? Crap caplock sorry gang.

But anyway, if the spec's for 1201 on the sizes and densities are good
enough for a plane to crash into. if a plane was just as light and or
dense whats the difference?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/14/2010 5:45 PM, Mike Manes wrote:
> The FAA's UAS rules are still bogged down at the NPRM level. Hopefully,
> this pressure will grant some relief to the sorts of lightweight recovery
> vehicles that we've been dreaming about.
>
> http://www.manufacturing.net/News-FAA-Under-Pressure-To-Allow-Drones-Over-US-061410/
>
> 73 de Mike W5VSI
> CTO EOSS
>

7253. Re: [GPSL] FAA Under Pressure To Allow Drones Over U.S.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-14 23:57:07 UTC
From: Mike Manes
Topic: 7248 Message: 7253

Nowhere in the UAS NPRM could I find any reference to Part 101 or balloons,
for that matter. I'm guessing that the UAS guys may not be aware of 101.

All the proposed rules seem to assume powered, ground-launched flight, but
that's not explicitly specified.

The rules do need some work, and maybe this pressure will get 'em off the
dime.

- Mike

On 6/14/2010 17:16, Joe wrote:
> tOO BAD THEY CANT TAKE THE EXACT SAME RULES OF 101 AND APPLY THEM.
>
> WEIGHT,, DENSITIES ETC. IF IT'S LIKE AN EXEMPT BALLOON FLIGHT, IT'S FINE
> TO FLY. WHY SHOULD IT MAKE ANY DIFFERENCE? Crap caplock sorry gang.
>
> But anyway, if the spec's for 1201 on the sizes and densities are good
> enough for a plane to crash into. if a plane was just as light and or
> dense whats the difference?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/14/2010 5:45 PM, Mike Manes wrote:
>> The FAA's UAS rules are still bogged down at the NPRM level. Hopefully,
>> this pressure will grant some relief to the sorts of lightweight recovery
>> vehicles that we've been dreaming about.
>>
>> http://www.manufacturing.net/News-FAA-Under-Pressure-To-Allow-Drones-Over-US-061410/
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7254. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 00:08:00 UTC
From: wb8elk@aol.com
Topic: 7247 Message: 7254
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Yes...I've been helping the Makers 256 Local team here in Huntsville AL for the Hackers Spaces in Space competition. We just did our second test flight this past Saturday....Bill WB8ELK

Story follows with photo of the recovery attached:

> I flew a low-power (10 milliwatt) version of my multi-mode tracker on 144.34 MHz running DominoEX22 and 300 baud ASCII RTTY.....total payload weight of 4.5 ounces. In addition we flew a small camera payload for the local Makers Local 256 club all attached to the weekly ozonesonde from the NSSTC building near UAH-Huntsville
>
> Shane N4XWC, Barry N4MSJ, members of the Makers Local 256 club and I set out to chase....we could see the balloon visually during a good deal of the flight since it wasn't traveling very fast and we could keep close to it during the flight.
>
> It burst around 101,000 feet and only landed a mile southwest of the burst point right in downtown Decatur, AL. It was about a mile NW of Point Mallard park and a half mile south of the TN River. Donna Avenue just north of Harrison St.
>
> Although weak and being directly under the balloon in the cone of silence for a vertical antenna, we still had enough signal to get most of the DominoEX signal to keep track of the balloon position. My home station was decoding the 300 baud ASCII RTTY signal and uploading that info to the http://spacenear.us/tracker website which plotted to a Google Map.
>
> I lost half my antenna at burst but still could copy a few weak position reports a couple of minutes before landing which helped narrow the search zone on the east side of Decatur. When we were about a half mile away, Barry N4MSJ was able to DF the ozonesonde signal which allowed us to get close enough to copy the DominoEX signal on 2m to decode the final lat/lon position.
>
> It turned out that the payloads had dropped into a woman's backyard off of Donna Avenue right next to her cathouse. She has a large outbuilding and fence covering about a good portion of her yard as a cat sanctuary for two wild cats that she didn't want roaming the neighborhood after she moved to the city from the country. Her cat "Tom" seemed particularly interested in the buzzing ozonesonde sitting right next to his fenced in sanctuary.....photo of the landing site (myself and the Makers 256 team holding the payloads). The Makers 256 club is participating in a competition called Hacker Spaces in Space to take photos in Near Space as economically as possible.
>
> You meet some interesting people when you drop things on them from 20 miles up.
>
> - Bill WB8ELK

>
> PS...landing site coordinate: 34d 35.18m, -086d 57.45m

-----Original Message-----
From: Jerry <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Mon, Jun 14, 2010 5:31 pm
Subject: [GPSL] Hackers in Space

Have any of you been approached by anyone competing the "Hackers in Space Challenge" (http://workshop88.com/space/)?
They are sponsoring a challenge between hackerspaces to launch a balloon with <4lb payload for under $250.
Might be a place to introduce some new people to GPSL.

7255. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 05:25:54 UTC
From: Mike Bogard
Topic: 7240 Message: 7255

I had a idea for the t-shirts.

How about (just fill in the correct amount)

A picture of the edge of space with past GPSL dates overlaid on the front
Under that these words
$100 for the gas

$100 for the balloon

$400 for the electronics

See back!

Then on the back a picture of some team that recovered there package with these words under it.

GPSL 2010 Priceless

7256. T-shirt Front

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 13:23:23 UTC
From: L. Paul Verhage
Topic: 7256 Message: 7256
Attachments: 1 described; binary payloads are missing from this source WARC

Here's the T-Shirt front.

As soon as I get a photo of the Cosmosphere, I'll get the back designed and post on Zazzle.

--
Onwards and Upwards,
Paul

7257. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 14:54:20 UTC
From: Jerry Gable
Topic: 7247 Message: 7257

And because most of you have done it is why I brought it up. I thought you might look at this as a way to spread your knowledge to a new group of enthusiasts.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: L. Paul Verhage <nearsys@...>
Sent: Mon, June 14, 2010 4:12:15 PM
Subject: Re: [GPSL] Hackers in Space

Who on this list hasn't done that? he he he..

How about make it a real challenge like do everything they say you must
do and do it for less than 50 bucks.

even that would be easy.

Joe WB9SBD
Near Space Sciences KB9KHO

Sig
The Original Rolling Ball
Clock
Idle Tyme
Idle-Tyme.com
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On 6/14/2010 6:00 PM, L. Paul Verhage wrote:

>Well shoot, Bill's already done that.
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>On Mon, Jun 14, 2010 at 5:31 PM, Jerry <jerrygable@...> >wrote:
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>>Onwards and Upwards,
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7258. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 15:27:06 UTC
From: Keith Kaiser
Topic: 7247 Message: 7258

Quite a few of us already "spread our knowledge" to others in a variety of ways. NSV for example teaches a Near Space class for the Boys and Girls Clubs of KC, we also have been doing launches for the Boy Scouts at a variety of levels (Cub, Boy, Venturing) for over 5 years.
Bill Brown literally travels the country doing this. EOSS has more experience than almost any of us. On top of that GPSL is going into its 10th year.

Maybe they should join us at what we have all been doing for a long time now. My question is what's in it for them, why are the doing this now?

On Jun 15, 2010, at 9:54 AM, Jerry Gable wrote:

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7259. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 18:01:03 UTC
From: Jerry Gable
Topic: 7247 Message: 7259

I am really looking at this as someone only marginally connected to the hackerspace community and GPSL. Hackerspaces (more info: http://hackerspaces.org) are basically community places where people come to work and collaborate on projects. It's a nice way to get access to equipment you may not have. The one I have been to a few times is pretty disorganized but it is working on it. This Hackers in Space was a challenge put out by one of these spaces to challenge the others. I'm pretty sure it was inspired by the MIT students that got the publicity a while back.

As far as them joining you, that was what I had in the back of my mind. Maybe not have the contest flights at GPSL but coordinated with GPSL would be something of interest to both parties. It could raise public awareness for both groups and I think it would be fun if 10 or 15 groups could launch balloons on this challenge at GPSL. You could set future challenges that will be more of a stretch. Maybe have different challenge levels.

Jerry

From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Tue, June 15, 2010 8:27:06 AM
Subject: Re: [GPSL] Hackers in Space

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Bill Brown literally travels the country doing this. EOSS has more experience than almost any of us. On top of that GPSL is going into its 10th year.

Maybe they should join us at what we have all been doing for a long time now. My question is what's in it for them, why are the doing this now?

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>>>>Onwards and Upwards,
>>>>Paul
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7260. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 18:08:48 UTC
From: L. Paul Verhage
Topic: 7247 Message: 7260

I would be interested to see if they're interested in BalloonSats. They are an easy way to send experiments into near space.

There's a group in KC that meets underground. I'm interested in joining them, but for a 90 minute drive and $35/month membership, it ain't goin' happen as a student. It's a neat idea though, it makes me wish I were still in Idaho as the Reuseumm is attmepting something similar.

Paul

On Tue, Jun 15, 2010 at 1:01 PM, Jerry Gable <jerrygable@...> wrote:

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Onwards and Upwards,
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7261. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 19:13:50 UTC
From: wb8elk@aol.com
Topic: 7247 Message: 7261

Our local group here in Huntsville is called Makers Local 256. They have a lab space in downtown Huntsville with metal working equipment and electronic test equipment. That's the group I helped to fly their camera last weekend as a test flight for the Hackers Spaces in Space competition. They all enjoyed the launch and really enjoyed the chase....they are enthusiastic and talented and I'll probably get some of them interested in helping out with some of my future launches.

Contacting these folks is a great way to add some new talent to your balloon groups. Although many of them work as computer programmers, EE's or ME's or are students in those fields, very few of them have actually seen ham radio in action....I think after this last flight I may have some more ham radio converts in the works.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 15, 2010 1:08 pm
Subject: Re: [GPSL] Hackers in Space

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Paul

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Onwards and Upwards,
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7262. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-15 23:01:53 UTC
From: Joe
Topic: 7247 Message: 7262
Attachments: 1 described; binary payloads are missing from this source WARC

What's really funny?

I started to look around about these folk. And off the top of my head, it's pretty cool. It's world wide and actually very BIG! I then found a search page where you can look for local to you groups. And There are 4 here in Wisconsin. 2 in Milwaukee, 1 in Madison, (The capital) and 1 in La Crosse (a large western town, LOTS of colleges, 4 of them)

But I noticed on thing about all four. They all are looking for members, Ok cool.. but all four make it impossible to contact them about anything, never mind becoming a member. Not one had a "Contact Us" link or anything. Are these guys soo geeky that they don't understand a simple link so people that they want to join actually can?

Just sooo funny..

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7263. Re: [GPSL] Hackers in Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 00:32:39 UTC
From: Jerry Gable
Topic: 7247 Message: 7263

In Phoenix there is one, Heatsync labs. Their website pretty much says when they have meetings and encourage you to come to a few before you join. I went and wandered around the place and nobody said anything to me. One other person looked lost so I talked to him. It turned out he was the guest speaker for the night. After a while someone came by and said hello. Three of the board members were there the whole time but didn't look up from their computers while we were wandering around.

As people showed up I talked with them and almost nobody pays for anything. They also seem to be easily distracted by shinny objects. Every week they seem to be doing something different.

As you said it was a great idea but communication skills and growing paying members seems low on the list of priority.

_____
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>>>>Might
>>>>be a
>>>>place to introduce some new people to GPSL.
>>>>
>>>>
>>>>
>>>>
>>>
>>>
>>>>>--
>>>>>Onwards and Upwards,
>>>>>Paul
>>>
>>
>>
>

7264. RE: [GPSL] Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 00:57:57 UTC
From: Nick Hanks
Topic: 7214 Message: 7264

During the tech session at GSPL 2008 in Liberty, MO EOSS member Mike Morgan lead a discussion on the use of hydrogen. He had a number of slides that he used to cover various aspects of hydrogen use.

Nick

NØLP

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of n1ltv
Sent: Sunday, June 13, 2010 14:03
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: Hydrogen

> I would be interested in flying with hydrogen at GPSL this year.

Has anyone ever presented a GPSL talk specifically about their techniques and experience with hydrogen?

I know Joe is an old hand at hydrogen (I think 100% of NSSL flights with H2), and I think it's been used at GPSL before, but wondering about whether a talk or Q + A has ever been done before.

Might be something to think about for this year.

When does a schedule of talks usually get firmed up and posted?

Hank

7265. Re: [GPSL] GPSL T-Shirts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 01:24:58 UTC
From: Mike Manes
Topic: 7240 Message: 7265

Those figures are a tad high for tightwad exempt flight - but don't
neglect the cost to refill your gas tank after fetching all that stuff
back (except for the balloon and fill gas) - it adds up.

73 de Mike W5VSI

On 6/14/2010 23:25, Mike Bogard wrote:
>
>
> I had a idea for the t-shirts.
> How about (just fill in the correct amount)
> A picture of the edge of space with past GPSL dates overlaid on the front
> Under that these words
> $100 for the gas
> $100 for the balloon
> $400 for the electronics
> See back!
> Then on the back a picture of some team that recovered there package
> with these words under it.
> GPSL 2010 Priceless
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7266. T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 13:19:47 UTC
From: L. Paul Verhage
Topic: 7266 Message: 7266
Attachments: 2 described; binary payloads are missing from this source WARC

Okay, here's the t-shirt design. I wanted to get this knocked off as quickly as possible, so last night I used a different picture for the back. It's one that is appropriate for near sapce recovery.

--
Onwards and Upwards,
Paul

7267. Re: [GPSL] T-shirt Design [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 13:23:24 UTC
From: Mark Conner
Topic: 7266 Message: 7267

One minor correction, the 2002 city is spelled Herington with one R.

- Mark

On Wed, Jun 16, 2010 at 08:19, L. Paul Verhage <nearsys@...> wrote:

> [Attachment(s) <#12940eb84c058f4e_TopText> from L. Paul Verhage included
> below]
>
> Okay, here's the t-shirt design. I wanted to get this knocked off as
> quickly as possible, so last night I used a different picture for the back.
> It's one that is appropriate for near sapce recovery.
>
> --
> Onwards and Upwards,
> Paul
>
> Attachment(s) from L. Paul Verhage
>
> 2 of 2 Photo(s)
> [image: shirt front.JPG]<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> shirt front.JPG<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> [image: shirt back.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
> shirt back.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
>
>
>

7268. H2 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 13:24:34 UTC
From: L. Paul Verhage
Topic: 7268 Message: 7268

I would like to launch with a group that's using H2. Is there a group with enough people who could fill a second balloon?

--
Onwards and Upwards,
Paul

7269. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 13:28:06 UTC
From: L. Paul Verhage
Topic: 7266 Message: 7269

Dang it.

Let me know if there's anything else to correct, I'd like to submit the
design to Zazzle tomorrow. I get out of class at 7 PM and will have a
little time to make changes.

Paul

On Wed, Jun 16, 2010 at 8:23 AM, Mark Conner <mconner1@...> wrote:

>
>
> One minor correction, the 2002 city is spelled Herington with one R.
>
> - Mark
>
> On Wed, Jun 16, 2010 at 08:19, L. Paul Verhage <nearsys@...> wrote:
>
>> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html
#12940ee117e3a502_12940eb84c058f4e_TopText>from L. Paul Verhage included below]
>>
>> Okay, here's the t-shirt design. I wanted to get this knocked off as
>> quickly as possible, so last night I used a different picture for the back.
>> It's one that is appropriate for near sapce recovery.
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>> Attachment(s) from L. Paul Verhage
>>
>> 2 of 2 Photo(s)
>> [image: shirt front.JPG]<http://groups.yahoo.com/group/GPSL/attachments/folder/15881980
40/item/1552948893/view>
>> shirt front.JPG<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1
552948893/view>
>> [image: shirt back.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/158819804
0/item/2032089654/view>
>> shirt back.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/20
32089654/view>
>>
>>
>
>
>

--
Onwards and Upwards,
Paul

7270. Re: [GPSL] T-shirt Design [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 13:29:29 UTC
From: James Hannon
Topic: 7266 Message: 7270

20009?Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 6/16/2010 8:19:47 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] T-shirt Design [2 Attachments][Attachment(s) from L. Paul Verhage included below]Okay, here's the t-shirt design. I wanted to get this knocked off as quickly as possible, so last night I used a different picture for the back. It's one that is appropriate for near sapce recovery.
--
Onwards and Upwards,
PaulAttachment(s) from L. Paul Verhage 2 of 2 Photo(s) shirt front.JPGshirt back.jpg

7271. Re: H2 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 14:21:47 UTC
From: n1ltv
Topic: 7268 Message: 7271

> I would like to launch with a group that's using H2. Is there a
> group with enough people who could fill a second balloon?

It definitely looks like it might help if there can be something
worked out or organized to help out Paul this year at GPSL.

How about trying to make hydrogen a *formal* (on the agenda)
part of GPSL 2011 before April and May 2011 roll around?

Maybe at least a demo launch, possibly more, like a brief
show-and-tell presentation.

Hank

7272. RE: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 14:32:18 UTC
From: DON FRASER
Topic: 7266 Message: 7272

What about 2010?

To: GPSL@yahoogroups.com
CC:
From: jmhannon@fmtcs.com
Date: Wed, 16 Jun 2010 13:29:29 +0000
Subject: Re: [GPSL] T-shirt Design

20009?

Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL

-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 6/16/2010 8:19:47 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] T-shirt Design [2 Attachments]

Okay, here's the t-shirt design. I wanted to get this knocked off as quickly as possible, so last night I used a different picture for the back. It's one that is appropriate for near sapce recovery.
--
Onwards and Upwards,
Paul

7273. Re: [GPSL] T-shirt Design [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 14:35:16 UTC
From: Joe
Topic: 7266 Message: 7273
Attachments: 1 described; binary payloads are missing from this source WARC

Wow BIG Gap in events after 2008.

we all took quite a few years off huh?

he he he he

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/16/2010 8:19 AM, L. Paul Verhage wrote:
> [Attachment(s) <#TopText> from L. Paul Verhage included below]
>
> Okay, here's the t-shirt design. I wanted to get this knocked off as
> quickly as possible, so last night I used a different picture for the
> back. It's one that is appropriate for near sapce recovery.
>
> --
> Onwards and Upwards,
> Paul
>
> Attachment(s) from L. Paul Verhage
>
> 2 of 2 Photo(s)
>
> shirt front.JPG
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> shirt front.JPG
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> shirt back.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
> shirt back.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
>
>

7274. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 14:35:58 UTC
From: L. Paul Verhage
Topic: 7266 Message: 7274

I haven't seen a shirt that gives the current year. Has anyone added that
to the current shirt?

Paul

On Wed, Jun 16, 2010 at 9:32 AM, DON FRASER <wa9wws@...> wrote:

>
>
> What about 2010?
>
> ------------------------------
> To: GPSL@yahoogroups.com
> CC:
> From: jmhannon@...
> Date: Wed, 16 Jun 2010 13:29:29 +0000
> Subject: Re: [GPSL] T-shirt Design
>
>
>
> 20009?
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "L. Paul Verhage" <nearsys@...>
> Sent 6/16/2010 8:19:47 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] T-shirt Design [2 Attachments]
>
> Okay, here's the t-shirt design. I wanted to get this knocked off as
> quickly as possible, so last night I used a different picture for the back.
> It's one that is appropriate for near sapce recovery.
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

>

--
Onwards and Upwards,
Paul

7275. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 14:42:34 UTC
From: Mark Conner
Topic: 7266 Message: 7275

Typically, we put the site of the current year's meeting on the front with the ARHAB logo and the callsign. The back has the previous years' launch sites (which may be slightly different than where the meeting occurs). The reason for the difference is that sometimes we change the launch site after the shirt design has to go final.

- Mark

On Wed, Jun 16, 2010 at 09:35, L. Paul Verhage <nearsys@...> wrote:

>
>
> I haven't seen a shirt that gives the current year. Has anyone added that
> to the current shirt?
>
> Paul
>

7276. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:17:54 UTC
From: Michael Willett
Topic: 7266 Message: 7276

I think it would be good to break from tradition and show the current year on the back too.

The 20009 :) T-shirt somewhat implies 2008 was the last event when viewed from the back. The font on the front is much smaller so it is not so apparent it was from 20009.

My $0.02

--Michael K5NOT

On 6/16/2010 9:42 AM, Mark Conner wrote:
>
> Typically, we put the site of the current year's meeting on the front
> with the ARHAB logo and the callsign. The back has the previous
> years' launch sites (which may be slightly different than where the
> meeting occurs). The reason for the difference is that sometimes we
> change the launch site after the shirt design has to go final.
>
> - Mark
>
> On Wed, Jun 16, 2010 at 09:35, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
>
>
> I haven't seen a shirt that gives the current year. Has anyone
> added that to the current shirt?
> Paul
>
>
>

7277. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:22:25 UTC
From: Zack Clobes
Topic: 7266 Message: 7277

Technically, we've never launched out of Hutchinson, but I hosted us here in both 2004 and 2006.

We launched from McPherson in 2004, and Lyons in 2006.

Not sure how you want to handle that. I'll proudly take Hutchinson for both years on my T-Shirt though.. ;-)

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Jun 16, 2010 at 10:17 AM, Michael Willett <mw@...> wrote:

>
>
>
> I think it would be good to break from tradition and show the current year
> on the back too.
>
> The 20009 :) T-shirt somewhat implies 2008 was the last event when viewed
> from the back. The font on the front is much smaller so it is not so
> apparent it was from 20009.
>
> My $0.02
>
> --Michael K5NOT
>
>
> On 6/16/2010 9:42 AM, Mark Conner wrote:
>
>
>
> Typically, we put the site of the current year's meeting on the front with
> the ARHAB logo and the callsign. The back has the previous years' launch
> sites (which may be slightly different than where the meeting occurs). The
> reason for the difference is that sometimes we change the launch site after
> the shirt design has to go final.
>
> - Mark
>
> On Wed, Jun 16, 2010 at 09:35, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> I haven't seen a shirt that gives the current year. Has anyone added that

>> to the current shirt?
>>
>> Paul
>>
>
>
>
>

7278. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:23:49 UTC
From: HarryM
Topic: 7266 Message: 7278

I think the lower caption on the front should read...

AND I GOT THIS GREAT PICTURE!

7279. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:27:07 UTC
From: HarryM
Topic: 7266 Message: 7279

I vote on the host city.

Technically, we've never launched out of Hutchinson, but I hosted us here in both 2004 and 2006.

We launched from McPherson in 2004, and Lyons in 2006.

Not sure how you want to handle that. I'll proudly take Hutchinson for both years on my T-Shirt though.. ;-)

7280. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:42:36 UTC
From: L. Paul Verhage
Topic: 7266 Message: 7280

We should change 2003 from Deer Creek to Denver, if we want to use host cities. I'll add Hutch twice.

Paul

On Wed, Jun 16, 2010 at 10:27 AM, HarryM <hhm_74115@...> wrote:

>
>
> I vote on the host city.
>
>
>
>
>
>
>
> Technically, we've never launched out of Hutchinson, but I hosted us here
> in both 2004 and 2006.
>
> We launched from McPherson in 2004, and Lyons in 2006.
>
>
> Not sure how you want to handle that. I'll proudly take Hutchinson for
> both years on my T-Shirt though.. ;-)
>
>
>
>
>

--
Onwards and Upwards,
Paul

7281. Re: T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 15:50:36 UTC
From: n1ltv
Topic: 7266 Message: 7281

> Let me know if there's anything else to correct, I'd like to submit the
> design to Zazzle tomorrow. I get out of class at 7 PM and will have a
> little time to make changes.

Paul,

This is one of the many thankless jobs you've undertaken,
but I urge you to not rush the design *that* much (tomorrow
to Zazzle).

Heck, you brought the idea up of specific designs only
seven days ago.

How about taking into consideration that most people
are not even reading all this GPSL email during the
day and/or able to reply during the day?

If it's possible, even just a few more days until the design
is committed would be a little more considerate of all
concerned.

Hank

7282. Re: [GPSL] Re: T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 16:18:38 UTC
From: HarryM
Topic: 7266 Message: 7282

I agree! We still have a month.
Give it more time for input.

One comment on the pic on the back.
It's not real clear what that is a pic of unless you are involved in ARHAB.
I think an inflated balloon at launch would stand out more.

> If it's possible, even just a few more days until the design is committed would > be a little more considerate of all concerned.

7283. Re: [GPSL] Re: T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 16:24:14 UTC
From: Hank Riley
Topic: 7266 Message: 7283

> One comment on the pic on the back.
> It's not real clear what that is a pic of unless you are involved
> in ARHAB.

My exact impression, too.

> I think an inflated balloon at launch would stand out
> more.

Yes, and I'm sure other images with much less *visual clutter*
than the present selection are around, but a balloon is
certainly one possibility.

7284. Re: [GPSL] Re: T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 17:53:29 UTC
From: Pete Lilja
Topic: 7266 Message: 7284
Attachments: 1 described; binary payloads are missing from this source WARC

Admittedly I haven't read through all of these posts and haven't seen it mentioned...but the Topeka, KS date on the back of the shirt is quite a ways in the future!

20009 is what it shows. [?]

Pete
KC0GPB

On Wed, Jun 16, 2010 at 11:24 AM, Hank Riley <n1ltv@...> wrote:

>
>
> > One comment on the pic on the back.
> > It's not real clear what that is a pic of unless you are involved
> > in ARHAB.
>
> My exact impression, too.
>
>
> > I think an inflated balloon at launch would stand out
> > more.
>
> Yes, and I'm sure other images with much less *visual clutter*
> than the present selection are around, but a balloon is
> certainly one possibility.
>
>
>

7285. Pre-payment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 20:05:40 UTC
From: zclobes@gmail.com
Topic: 7285 Message: 7285

I've had a couple of questions regarding paying for Symposium admission at the door. Yes, you may pay when get to Hutchinson, and if you are at all unsure if you will make it, that is still the best option.

Pre-payment obviously has its advantages though:
* It's faster - you'll have a badge already printed with your name.
* You won't have to wait in line to sign in, so you'll get first dibs on the breakfast spread.
* Don't have to worry about having cash or check on you Friday morning.
* You can pay with credit/debit cards.
* It gives me a more firm number of how many will attend.
* It allows me to make deposits and buy supplies ahead of time.

Gas purchases on the other hand need to be placed ahead of time, as we need to insure that the supplier has the necessary gas on hand.

Thanks,
Zack

7286. Space Data Corp balloon launch photos on Fox News website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 20:20:20 UTC
From: Mark Conner
Topic: 7286 Message: 7286

http://www.foxnews.com/slideshow/us/2010/06/16/border-security/#slide=1

Photos only, don't see an article to go with. Would like to see a video of how well the launch bag concept works.

73 de Mark N9XTN

7287. Re: Space Data Corp balloon launch photos on Fox News website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 22:02:23 UTC
From: Mark Conner
Topic: 7286 Message: 7287

Here's the article. Basically, they would like to fly repeaters for the
Border Patrol, but so far no action.

http://www.foxnews.com/us/2010/06/16/high-tech-technology-available-used-border/

- Mark

On Wed, Jun 16, 2010 at 15:20, Mark Conner <mconner1@...> wrote:

> http://www.foxnews.com/slideshow/us/2010/06/16/border-security/#slide=1
>
> Photos only, don't see an article to go with. Would like to see a video of
> how well the launch bag concept works.
>
> 73 de Mark N9XTN
>
>
>

7288. Re: [GPSL] Space Data Corp balloon launch photos on Fox News website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 22:50:34 UTC
From: Mike Manes
Topic: 7286 Message: 7288

Hi Mark,

Here's a video of how JP Aerospace does bag launches:

http://www.youtube.com/johnmpowell#p/u/5/mCwOYV9gHn0

Go to http://jpaerospace.com/ and click on Videos.

There's also a video of how they developed and built the launch bag.

73 de Mike W5VSI

On 6/16/2010 14:20, Mark Conner wrote:
>
>
> http://www.foxnews.com/slideshow/us/2010/06/16/border-security/#slide=1
>
> Photos only, don't see an article to go with. Would like to see a video
> of how well the launch bag concept works.
>
> 73 de Mark N9XTN
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7289. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 23:22:14 UTC
From: Mike Manes
Topic: 7266 Message: 7289

That was Deer TRAIL, CO not Deer Creek, which runs less than a mile
from my QTH.

73 de Mike W5VSI

On 6/16/2010 09:42, L. Paul Verhage wrote:
>
>
> We should change 2003 from Deer Creek to Denver, if we want to use host
> cities. I'll add Hutch twice.
> Paul
>
> On Wed, Jun 16, 2010 at 10:27 AM, HarryM <hhm_74115@...
> <mailto:hhm_74115@...>> wrote:
>
>
>
>
> I vote on the host city.
>
> Technically, we've never launched out of Hutchinson, but I
> hosted us here in both 2004 and 2006.
>
> We launched from McPherson in 2004, and Lyons in 2006.
>
>
> Not sure how you want to handle that. I'll proudly take
> Hutchinson for both years on my T-Shirt though.. ;-)
>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7290. Re: [GPSL] T-shirt Design [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-16 23:30:33 UTC
From: Mike Manes
Topic: 7266 Message: 7290

GPSL '03 was out of Deer Trail, CO not Deer Creek. And our conference
was held in Boulder, CO (CU campus) rather than Denver. But Denver is
easier for folks to find, like Wichita vs Herrington :=).

73 de Mike W5VSI

On 6/16/2010 07:19, L. Paul Verhage wrote:
> [Attachment(s) <#TopText> from L. Paul Verhage included below]
>
> Okay, here's the t-shirt design. I wanted to get this knocked off as
> quickly as possible, so last night I used a different picture for the
> back. It's one that is appropriate for near sapce recovery.
>
> --
> Onwards and Upwards,
> Paul
>
> Attachment(s) from L. Paul Verhage
>
> 2 of 2 Photo(s)
>
> shirt front.JPG
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> shirt front.JPG
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/1552948893/view>
> shirt back.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
> shirt back.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1588198040/item/2032089654/view>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7291. WB8ELK balloon launch this Friday from Spaceport Indiana

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 00:54:31 UTC
From: wb8elk@aol.com
Topic: 7291 Message: 7291

Location: Spaceport Indiana - Bakalar Airport in Columbus, IN 39.27 -85.90 Flight number: SPI2010A

Time: 11:00 am EDT

Date: Friday June 18th

APRS: WB8ELK-10 and WB8ELK-11 on 144.39
DominoEX22 & 300 baud ASCII RTTY on 144.34: WB8ELK
DominoEX22 & 300 baud ASCII RTTY on 146.565: N9QGS

Streaming video of the launch starting at 10:30 am EDT: www.batc.tv select "Members Streams" then select "WB8ELK"

Every 5 minutes there will also be Hellscreiber and CW on the 144.34 and 146.565 transmitters (listen in CW mode to hear these)

Tracking map will show on: http://spacenear.us/tracker

- Bill WB8ELK

7292. Re: [GPSL] T-shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 04:34:17 UTC
From: Mike Manes
Topic: 7266 Message: 7292

2003 flew from Deer TRAIL, CO and the conference was in Boulder, not
Denver.

73 de Mike W5VSI
EOSS, host of GPSL 2003

On 6/16/2010 09:42, L. Paul Verhage wrote:
>
>
> We should change 2003 from Deer Creek to Denver, if we want to use host
> cities. I'll add Hutch twice.
> Paul
>
> On Wed, Jun 16, 2010 at 10:27 AM, HarryM <hhm_74115@...
> <mailto:hhm_74115@...>> wrote:
>
>
>
>
> I vote on the host city.
>
> Technically, we've never launched out of Hutchinson, but I
> hosted us here in both 2004 and 2006.
>
> We launched from McPherson in 2004, and Lyons in 2006.
>
>
> Not sure how you want to handle that. I'll proudly take
> Hutchinson for both years on my T-Shirt though.. ;-)
>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7293. T-Shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 18:10:37 UTC
From: L. Paul Verhage
Topic: 7293 Message: 7293
Attachments: 2 described; binary payloads are missing from this source WARC

Here's the latest designs. I made the back just the hoizon picture and the front the ARHAB logo.

--
Onwards and Upwards,
Paul

7294. Re: [GPSL] T-Shirt Design [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 18:23:39 UTC
From: HarryM
Topic: 7294 Message: 7294

You left out the list of past GPSL's.

I was just looking at my past shirts and it would be nice to follow those years designs. The front as you have it now. The back with the pic across the top with the past GPSL's under that.

Here's the latest designs. I made the back just the hoizon picture and the front the ARHAB logo.

7295. Re: [GPSL] T-Shirt Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 18:28:56 UTC
From: L. Paul Verhage
Topic: 7294 Message: 7295

I'll try to add the past event beneath the logo.

On Thu, Jun 17, 2010 at 1:23 PM, HarryM <hhm_74115@...> wrote:

>
>
>
> You left out the list of past GPSL's.
>
> I was just looking at my past shirts and it would be nice to follow those
> years designs. The front as you have it now. The back with the pic across
> the top with the past GPSL's under that.
>
>
>
> Here's the latest designs. I made the back just the hoizon picture and
> the front the ARHAB logo.
>
>
>
>

--
Onwards and Upwards,
Paul

7296. Re: H2 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-17 23:04:32 UTC
From: Nicholas
Topic: 7268 Message: 7296

Paul, I plan on launching with H2 and was thinking about launching two balloons but I could just launch 1 balloon and help you launch a balloon.

There is one possible complication and that is I will be conducting a plant test in Oklahoma that week and may not be back to Topeka till Friday night. And under the worst condition I may have to stay at the plant over the weekend. Last year's test went well and hopefully this year will be a repeat but I can't guarantee that I will be there.

Paul you are welcome to call me and we can discuss it more if you would like.

Nick Stich
K0NMS
785-286-1077

> I would like to launch with a group that's using H2. Is there a group with
> enough people who could fill a second balloon?
>
> --
> Onwards and Upwards,
> Paul
>

7297. Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-18 22:59:59 UTC
From: HarryM
Topic: 7297 Message: 7297

I'm trying to use BalTrak On Line and keep getting this error...

Software error:
Hour '0900' out of range 0..23 at /u/www/nearspaceventures/w3Baltrak/cgi-bin/btrack_gps.pl line 53
For help, please send mail to the webmaster (troymc@...), giving this error message and the time and date of the error.

Here's the data I copied to submit...

File start time : 10 6 18 18 0
File ending time: 10 6 26 6 0
Chosen date in meteorological file: 10 6 23 15

YR: 2010 MON: 06 DAY: 23 HOUR: 15 AT POSITION: 244.2 125.8 LAT.: 34.85 LON.:-116.78 ELEV: 587 m
PRSS: 0.9156E+03
MSLP: 0.1013E+04
TPP6: 0.0000E+00
UMOF: -0.5031E-01
VMOF: -0.3557E-01
SHTF: 0.9804E+01
DSWF: 0.1535E+03
RH2M: 0.2092E+02
U10M: 0.1901E+01
V10M: 0.9140E+00
T02M: 0.2953E+03
TCLD: 0.6630E+00
SHGT: 0.8692E+03
CAPE: 0.0000E+00
CINH: 0.0000E+00
LISD: 0.2861E+03
LIB4: 0.9921E+01
PBLH: 0.2440E+03

PRESS HGT(MSL) TEMP DEW PT WND DIR WND SPD
HPA M C C DEG M/S
E = Estimated Surface Height

916. 869. 22.2 -1.3 244.3 2.1
900. 1017. 20.6 -1.5 239.6 2.8
850. 1510. 21.2 -6.8 174.9 2.1
800. 2032. 18.6 -15.3 157.9 6.2
750. 2580. 14.9 -23.2 171.6 7.5

700. 3158. 11.1 -29.2 184.7 7.6
650. 3770. 7.7 -36.3 196.8 7.4
600. 4424. 3.7 -34.3 208.0 8.5
550. 5123. -1.5 -28.7 213.8 11.2
500. 5873. -6.7 -38.3 219.9 15.2
450. 6686. -12.6 -32.7 221.3 14.8
400. 7573. -19.6 -33.8 226.3 14.4
350. 8549. -26.8 -47.7 231.2 17.4
300. 9641. -35.1 -53.9 230.6 12.9
250. 10886. -45.4 -57.4 226.0 15.4
200. 12333. -57.4 -61.1 230.8 18.8
150. 14117. -62.8 -69.8 232.1 18.6
100. 16617. -63.0 -273.1 229.1 10.6
50. 20886. -59.3 -133.6 70.1 6.0
20. 26785. -48.2 -273.1 84.9 12.5

hysplit.t18z.gfsf
Lat/Lon/Elev: 34.85 -116.78 587m
E = Estimated Surface Height

========Mean Sea Level Pressure=====
FHR: 117.
MSLP 1013.

========Temperature Deg C=====
Hmsl/FHR: 117.
Mdl sfc 22.2
869. 22.2
1017. 20.6
1510. 21.2
2032. 18.6
2580. 14.9
3158. 11.1
3770. 7.7
4424. 3.7
5123. -1.5
5873. -6.7
6686. -12.6
7573. -19.6
8549. -26.8
9641. -35.1
10886. -45.4
12333. -57.4
14117. -62.8
16617. -63.0
20886. -59.3
26785. -48.2

========Relative Humidity========
Hmsl/FHR: 117.
869. 22.6

1017. 22.7
1510. 14.8
2032. 8.9
2580. 5.9
3158. 4.5
3770. 2.9
4424. 4.6
5123. 11.2
5873. 6.7
6686. 18.0
7573. 28.8
8549. 13.4
9641. 14.5
10886. 27.0
12333. 64.2
14117. 41.8
16617. 0.0
20886. 0.0
26785. 0.0

========Wind Direction========
Hmsl/FHR: 117.
869. 244.3
1017. 239.6
1510. 174.9
2032. 157.9
2580. 171.6
3158. 184.7
3770. 196.8
4424. 208.0
5123. 213.8
5873. 219.9
6686. 221.3
7573. 226.3
8549. 231.2
9641. 230.6
10886. 226.0
12333. 230.8
14117. 232.1
16617. 229.1
20886. 70.1
26785. 84.9

========Wind Speed m/s=========
Hmsl/FHR: 117.
869. 2.1
1017. 2.8
1510. 2.1
2032. 6.2
2580. 7.5
3158. 7.6

3770. 7.4
4424. 8.5
5123. 11.2
5873. 15.2
6686. 14.8
7573. 14.4
8549. 17.4
9641. 12.9
10886. 15.4
12333. 18.8
14117. 18.6
16617. 10.6
20886. 6.0
26785. 12.

7298. Re: [GPSL] Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-18 23:02:09 UTC
From: HarryM
Topic: 7297 Message: 7298

NEVER MIND!
I guess I need another V8! :}

I entered the launch hour wrong.
I assumed it was 24 hr time.

My bad!!!

7299. Re: [GPSL] Re: H2 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-19 02:28:29 UTC
From: L. Paul Verhage
Topic: 7268 Message: 7299

We'll stay in contact. A week or two before GPSL, will you have a better
feel?

Thanks,
Paul

On Thu, Jun 17, 2010 at 6:04 PM, Nicholas <NStich@...> wrote:

>
>
> Paul, I plan on launching with H2 and was thinking about launching two
> balloons but I could just launch 1 balloon and help you launch a balloon.
>
> There is one possible complication and that is I will be conducting a plant
> test in Oklahoma that week and may not be back to Topeka till Friday night.
> And under the worst condition I may have to stay at the plant over the
> weekend. Last year's test went well and hopefully this year will be a
> repeat but I can't guarantee that I will be there.
>
> Paul you are welcome to call me and we can discuss it more if you would
> like.
>
> Nick Stich
> K0NMS
> 785-286-1077
>
>
> > I would like to launch with a group that's using H2. Is there a group
> with
> > enough people who could fill a second balloon?
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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--
Onwards and Upwards,
Paul

7300. Highest Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-19 02:35:28 UTC
From: L. Paul Verhage
Topic: 7300 Message: 7300

We have the Inventek Prize for the highest flight this year.

--
Onwards and Upwards,
Paul

7301. Re: [GPSL] Highest Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-19 03:04:25 UTC
From: Joe
Topic: 7300 Message: 7301
Attachments: 1 described; binary payloads are missing from this source WARC

What Prize is this?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/18/2010 9:35 PM, L. Paul Verhage wrote:
>
>
> We have the Inventek Prize for the highest flight this year.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

7302. RE: [GPSL] Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-19 20:17:03 UTC
From: Rick von Glahn
Topic: 7297 Message: 7302

Hey harry,

Congrats on figuring it out for yourself.

I don't handle that program it's the guys from Near Space

http://nearspaceventures.com/cgi-bin/index.cgi

you might drop them a line and suggest their program accept a leading zero.
I bet lots of folks do what you did.

CU next month.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of HarryM
Sent: Friday, June 18, 2010 5:02 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Bal Trak On Line

NEVER MIND!

I guess I need another V8! :}

I entered the launch hour wrong.

I assumed it was 24 hr time.

My bad!!!

7303. RE: [GPSL] Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-20 07:38:44 UTC
From: Rick von Glahn
Topic: 7297 Message: 7303
Attachments: 1 described; binary payloads are missing from this source WARC

Hmmm, I thought I received and replied to your message direct. Well, never mind Harry, I believe I may have passed along the parsing algorithm change suggestion myself.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Rick von Glahn
Sent: Saturday, June 19, 2010 2:17 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Bal Trak On Line

Hey harry,

Congrats on figuring it out for yourself.

I don't handle that program it's the guys from Near Space

http://nearspaceventures.com/cgi-bin/index.cgi

you might drop them a line and suggest their program accept a leading zero. I bet lots of folks do what you did.

CU next month.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of HarryM
Sent: Friday, June 18, 2010 5:02 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Bal Trak On Line

NEVER MIND!

I guess I need another V8! :}

I entered the launch hour wrong.

I assumed it was 24 hr time.

My bad!!!

7304. Re: [GPSL] Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-20 14:21:02 UTC
From: HarryM
Topic: 7297 Message: 7304

Ok, Thanks Rick!

73 Harry

Hmmm, I thought I received and replied to your message direct....

7305. Re: [GPSL] Bal Trak On Line

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-20 14:21:38 UTC
From: HarryM
Topic: 7297 Message: 7305

I found this new web site that really has a lot of potential for calculations of just about anything. Definately watch the introduction!

Amazing! Instant access to the ability to calculate almost anything you can think of. Great depth of information, available on so many subjects!! A really neat reference site, free of charge!!

Listen to the introduction to understand its scope.

Introduction:
http://www.wolframalpha.com/screencast/introducingwolframalpha.html

Website:
http://www.wolframalpha.com

7306. Re: H2 Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-21 02:02:33 UTC
From: Nicholas
Topic: 7268 Message: 7306

Paul, No it will be the week of GPSL. It all depends on whether or not they can ran the power plant at the required load and what the weather conditions are. I am going to travel to the job site on Sunday to buy me an extra day. I feel pretty confident but I just by 100% sure until I am at the plant and they are running on Monday.

But as soon as I know something for sure I would be more than happy to call you.

Regards - Nick
K0NMS
>
> We'll stay in contact. A week or two before GPSL, will you have a better
> feel?
>
> Thanks,
> Paul
>
> On Thu, Jun 17, 2010 at 6:04 PM, Nicholas <NStich@...> wrote:
>
> > >
> > >
> > > Paul, I plan on launching with H2 and was thinking about launching two
> > > balloons but I could just launch 1 balloon and help you launch a balloon.
> > >
> > > There is one possible complication and that is I will be conducting a plant
> > > test in Oklahoma that week and may not be back to Topeka till Friday night.
> > > And under the worst condition I may have to stay at the plant over the
> > > weekend. Last year's test went well and hopefully this year will be a
> > > repeat but I can't guarantee that I will be there.
> > >
> > > Paul you are welcome to call me and we can discuss it more if you would
> > > like.
> > >
> > > Nick Stich
> > > K0NMS
> > > 785-286-1077
> > >
> > >
> > > > I would like to launch with a group that's using H2. Is there a group
> > > with
> > > > enough people who could fill a second balloon?
> > > >
> > > > --
> > > > Onwards and Upwards,
> > > > Paul
> > > >

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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
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>
> --
> Onwards and Upwards,
> Paul
>

7307. 9-yr Minnesota boy sends one aloft

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-21 18:24:15 UTC
From: gregwilliams@knology.net
Topic: 7307 Message: 7307

http://www.cnn.com/video/#/video/us/2010/06/19/dnt.mn.balloon.boy.kare?hpt=T2

They think he got to 60k'. Used a cell phone to track (signal was lost shortly after liftoff, regained as the balloon approached terra firma) and he did it for a 4-H project.

Other links I found:
http://www.kare11.com/news/news_article.aspx?storyid=853994&catid=391 - KARE-TV transcription of the CNN video (also mentions dad got a speeding ticket in Iowa on way to find balloon).

http://www.postbulletin.com/newsmanager/templates/localnews_story.asp?z=2&a=457044 Austin, MN newspaper

http://www.postbulletin.com/newsmanager/templates/localnews_story.asp?z=28&a=457391 - editorial on above link

7308. GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-21 23:36:29 UTC
From: k6rpt
Topic: 7308 Message: 7308

I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?

-Ron
K6RPT

7309. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-21 23:41:59 UTC
From: Joe
Topic: 7308 Message: 7309
Attachments: 1 described; binary payloads are missing from this source WARC

How high do you expect to go?
If it dies the rumor is that it will stop at 135K, but thats just a
rumor that was tossed around.
Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/21/2010 6:36 PM, k6rpt wrote:
> I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?
>
> -Ron
> K6RPT
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

7310. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 00:23:23 UTC
From: wb8elk@aol.com
Topic: 7308 Message: 7310

Hi Ron,

The Garmin should work up to any altitude that we can manage with latex balloons. I've had mine up to nearly 119,000 feet before. The Inventek GPS board that I'm currently using will work to 135,000 feet.

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Mon, Jun 21, 2010 6:36 pm
Subject: [GPSL] GPS receivers not working at very high altitudes?

I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?

-Ron
K6RPT

7311. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 01:36:45 UTC
From: Jerry Gable
Topic: 7308 Message: 7311

If it worked at 105K feet you are probably OK. The problem usually discussed is the 60K feet limit that some units have. The DOD has a rule about >60K feet or greater than something like 900MPH. You are supposed to be able to exceed 1 but not both limits. Some units cut off if either is exceeded. I have seen units based on the SiRF III chipset do this.

From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Mon, June 21, 2010 4:36:29 PM
Subject: [GPSL] GPS receivers not working at very high altitudes?

I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?

-Ron
K6RPT

7312. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 02:42:18 UTC
From: wb8elk@aol.com
Topic: 7308 Message: 7312

The only SiRF III chipset that I'm aware of that works above 60,000 feet is the Inventek module with the special high altitude balloon firmware. I've test flown this module dozens of times over the past 2 or 3 years with excellent results....particularly when matched up with a Sarantel helix antenna (with built-in preamp). There are other Kalman Filter limits at 78,000 and 135,000 feet depending on how the manufacturer does the filtering algorithm....this is why some units that make it past the DoD 60,000 feet limit sometimes stop at 78,000 feet. For those using the Trimble Copernicus, the default "Land" setting stops at 27,000 feet....in "AIR" Mode it will work well above 100,000 feet. One cheap unit (think it was from Radio Shack?) that was tested a few years ago stopped at 32767 feet since they didn't want to take up more memory space on their microcontroller for the altitude. These are some of the things to look for when choosing a GPS receiver for balloons. Due to the extreme costs of a GPS RF simulator, the most cost-effective way to test them out is to actually fly them (but I'd recommend sending up a known good GPS unit along with it as a backup).

I'm waiting for my last revision of my GPS board that has the Inventek module and the Sarantel antenna all in one board, I've added battery backup and the ability to choose between inverted or non-inverted serial output depending on whether you're using it directly into a microcontroller or something like the Byonics Microtrak. I've tested it out with the Microtrak on several flights and it locks on within 90 seconds from a cold start. With the battery backup, it'll do hot starts in less then a second provided it has been on less than 2 hours previously. The Sarantel helical antenna does seem to eliminate lock problems during a rapid spinning payload (or even an inverted payload) as sometimes happens during a tangled flight train during descent. It works better under these conditions than my previous tests with a patch antenna.

The GPS board will be available in mid-July at: www.elktronics.com I will also have the complete Multi-Mode Tracker available at about the same time that incorporates the Inventek GPS module and Sarantel antenna along with a frequency agile transmitter that can be put on 2m or any frequency below that all the way down to 1.8 MHz.

I will try to have some assembled units ready so I can bring them to GPSL this year for anyone interested.

Right now it does DominoEX (my favorite weak signal mode), RTTY (I particularly like 8-bit ASCII RTTY at 300 baud), CW, Hellscreiber and PSK-31. I may have it doing APRS packet by late July....I'm currently writing the code to implement that. It will have the ability to transmit on 144.39 MHz to transmit a position report to the APRS network, then automatically switch to a clear channel frequency such as 144.36 MHz to send out the other weak signal modes.

- Bill WB8ELK

-----Original Message-----
From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com

Sent: Mon, Jun 21, 2010 8:36 pm
Subject: Re: [GPSL] GPS receivers not working at very high altitudes?

If it worked at 105K feet you are probably OK. The problem usually discussed is the 60K feet limit that some units have. The DOD has a rule about >60K feet or greater than something like 900MPH. You are supposed to be able to exceed 1 but not both limits. Some units cut off if either is exceeded. I have seen units based on the SiRF III chipset do this.

From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Mon, June 21, 2010 4:36:29 PM
Subject: [GPSL] GPS receivers not working at very high altitudes?

I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?

-Ron
K6RPT

7313. What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 16:20:12 UTC
From: k6rpt
Topic: 7313 Message: 7313

I plan to use a 3000g HE with a payload weight of 10 oz and a free lift 2.25 with an estimated peak altitude of 131k. What would be a minimum free lift that would still work?

-Ron
K6RPT

7314. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 16:35:07 UTC
From: L. Paul Verhage
Topic: 7313 Message: 7314

I always goes with at least 3 pounds positive lift. With too little lift on a large balloon with a light payload, you run the risk of neutral bouyancy. If you take that risk, use a cut down timer to bring everything back.

Adding a little more helium isn't going to impact the max altitude very much. You must increase the initial volume of helium by 100% to reduce the max altitude by 18,000 feet. Variations in the balloon and inaccuracies in weighing lift will swamp small variations in the initial helium dump.

However, adding a little extra helium does effect your ascent rate and therefore your time aloft (which impacts your flight downrange).

So go with the extra helium and get your near spacecraft back sooner.

Paul

On Tue, Jun 22, 2010 at 11:20 AM, k6rpt <Ron@...> wrote:

> I plan to use a 3000g HE with a payload weight of 10 oz and a free lift
> 2.25 with an estimated peak altitude of 131k. What would be a minimum free
> lift that would still work?
>
> -Ron
> K6RPT
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

7315. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 17:02:30 UTC
From: wb8elk@aol.com
Topic: 7313 Message: 7315

Ron,

I've flown with as little as 1 ounce free lift (ran out of helium that time)....however, you run the risk of coming back down with that small of lift and a very extended flight time. For a decent ascent rate of 250 to 400 ft/min, I would run about 7 or 8 ounces of lift with your system. Keep in mind that if your ascent rate stays much below 400 ft/min, you run the chance of doing a several hour floater flight.

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 22, 2010 11:20 am
Subject: [GPSL] What would be a minimum free lift that would still work?

I plan to use a 3000g HE with a payload weight of 10 oz and a free lift 2.25 with an estimated peak altitude of 131k. What would be a minimum free lift that would still work?

-Ron
K6RPT

7316. Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 17:54:13 UTC
From: n1ltv
Topic: 7313 Message: 7316

Ron,

Bill answered the *question you asked* perfectly, but the idea of what both Bill and Paul mentioned of having a little spare lift is good, valid advice, and your planning to use a little over 2 pounds of free lift already complied with that notion.

Consulting LIFTWIN, it looks as if the "comfort range" for your balloon and payload characteristics would put the free lift in the range of about 1 1/2 to 4 pounds allowing for some margin of error.

Unless for some reason you're trying to gain a very high altitude or and/or economizing on gas expense or having a leisurely, slow flight, maybe think about just a little more fill (3 to 4 pounds) to get a faster ascent speed to get your flight over with and not have the possibility of a slow pinhole leak making a *very* long flight.

What will that light payload be, and are you planning on recovering it?

Hank

7317. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 17:59:24 UTC
From: Michael Willett
Topic: 7313 Message: 7317

What Paul and Bill are saying here sounds quite counter-intuitive, but the statement about a hanging balloon is quite true. At the last GPSL I ran an experiment to track the internal balloon pressure during the flight. The results were surprising to me personally. However, they coincided with findings voiced by Cait, Jules and Amy from UofMN (from memory - ??) where they shared a quick comment about strange data on balloon pressure. My results in the flight that followed the next day reflected strong similarities to their comments.

From this I concluded that the Latex the balloon is made of is not made from a "completely" linear expansion material. If it were, you could go with the minimum lift to get max altitude. However, the latex goes through an initial high-resistance stretching phase at inflation to first few thousand feet where the helium pressure reduces greatly, and goes up relative to the reluctance of the latex to initially stretch. Shortly after, the Latex becomes more relaxed in it's resistance to stretching, and this is where the balloon goes through its' nearly linear expansion phase to the maximum increase in diameter. Here we even find a vacuum being present at the fill nozzle for much of the flight in my case, as most of the helium is providing max pressure against the balloon top and sides, and the balloon is stretching very, very easily. Here is the war between a compressible gas and the mechanical resistance to stretch the Latex material, where the Latex is stretching easily and near constantly. This near linear area of expansion is the case for probably greater than 95% of the balloon ascent. As the balloon reaches maximum diameter, the balloon's latex reaches a point of resistance to any more expansion ("Captain, she can't take it anymore!") and there is a sharp increase in the helium pressure due to the resistance to stretching, and the balloon finally bursts.

However, if there is not enough helium, the gas compresses slightly at this point due to the mechanical resistance to expansion by the balloon. And with a slow ascent rate, you can easily achieve neutral buoyancy. One would think this whole process is linear due to the near linear flight profile, but the mechanical stretch resistance phenomenon is there at lift-off and just before burst. The pressure profile looks similar to the back of a two-hump camel with a great distance between the humps. So if you inflate for minimum lift and the balloon ascends lightly, it may never burst due to not having enough compression pressure to overcome the mechanical resistance of the latex at altitude, and therefore the buoyancy created by displacement is no longer a constant because the displacement increase is no longer happening. This creates the floater and you will need a cut-down device to bring the payload down, or wait for the helium to jump outside the Latex enough (days?) to start the descent.

--Michael K5NOT

On 6/22/2010 11:35 AM, L. Paul Verhage wrote:
> I always goes with at least 3 pounds positive lift. With too little
> lift on a large balloon with a light payload, you run the risk of
> neutral bouyancy. If you take that risk, use a cut down timer to
> bring everything back.
> Adding a little more helium isn't going to impact the max altitude
> very much. You must increase the initial volume of helium by 100% to
> reduce the max altitude by 18,000 feet. Variations in the balloon and
> inaccuracies in weighing lift will swamp small variations in the
> initial helium dump.
> However, adding a little extra helium does effect your ascent rate and
> therefore your time aloft (which impacts your flight downrange).
> So go with the extra helium and get your near spacecraft back sooner.
> Paul
>
> On Tue, Jun 22, 2010 at 11:20 AM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> I plan to use a 3000g HE with a payload weight of 10 oz and a free
> lift 2.25 with an estimated peak altitude of 131k. What would be a
> minimum free lift that would still work?
>
> -Ron
> K6RPT
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> Yahoo! Groups Links
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>
> (Yahoo! ID required)
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
>

7318. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 18:07:42 UTC
From: L. Paul Verhage
Topic: 7313 Message: 7318

I believe a good example of how difficult it is for the balloon to initially expand can be seen by trying to blow up a balloon. That initial huff can be very difficult.

I believe the reason is that the balloon has its minimium diameter, and therefore the skin tension creates the greatest component of inward force. As the balloon expands, every square of balloon surface becomes flatter, meaning there's a smaller component of skin tension directed inwards.
Paul
On Tue, Jun 22, 2010 at 12:59 PM, Michael Willett <mw@...> wrote:

>
>
>
> What Paul and Bill are saying here sounds quite counter-intuitive, but the
> statement about a hanging balloon is quite true. At the last GPSL I ran an
> experiment to track the internal balloon pressure during the flight. The
> results were surprising to me personally. However, they coincided with
> findings voiced by Cait, Jules and Amy from UofMN (from memory - ??) where
> they shared a quick comment about strange data on balloon pressure. My
> results in the flight that followed the next day reflected strong
> similarities to their comments.
>
> From this I concluded that the Latex the balloon is made of is not made
> from a "completely" linear expansion material. If it were, you could go with
> the minimum lift to get max altitude. However, the latex goes through an
> initial high-resistance stretching phase at inflation to first few thousand
> feet where the helium pressure reduces greatly, and goes up relative to the
> reluctance of the latex to initially stretch. Shortly after, the Latex
> becomes more relaxed in it's resistance to stretching, and this is where the
> balloon goes through its' nearly linear expansion phase to the maximum
> increase in diameter. Here we even find a vacuum being present at the fill
> nozzle for much of the flight in my case, as most of the helium is providing
> max pressure against the balloon top and sides, and the balloon is
> stretching very, very easily. Here is the war between a compressible gas and
> the mechanical resistance to stretch the Latex material, where the Latex is
> stretching easily and near constantly. This near linear area of expansion
> is the case for probably greater than 95% of the balloon ascent. As the
> balloon reaches maximum diameter, the balloon's latex reaches a point of
> resistance to any more expansion ("Captain, she can't take it anymore!") and
> there is a sharp increase in the helium pressure due to the resistance to
> stretching, and the balloon finally bursts.
>
> However, if there is not enough helium, the gas compresses slightly at this
> point due to the mechanical resistance to expansion by the balloon. And with

> a slow ascent rate, you can easily achieve neutral buoyancy. One would think
> this whole process is linear due to the near linear flight profile, but the
> mechanical stretch resistance phenomenon is there at lift-off and just
> before burst. The pressure profile looks similar to the back of a two-hump
> camel with a great distance between the humps. So if you inflate for minimum
> lift and the balloon ascends lightly, it may never burst due to not having
> enough compression pressure to overcome the mechanical resistance of the
> latex at altitude, and therefore the buoyancy created by displacement is no
> longer a constant because the displacement increase is no longer happening.
> This creates the floater and you will need a cut-down device to bring the
> payload down, or wait for the helium to jump outside the Latex enough
> (days?) to start the descent.
>
> --Michael K5NOT
>
>
>
>
> On 6/22/2010 11:35 AM, L. Paul Verhage wrote:
>
>
> I always goes with at least 3 pounds positive lift. With too little lift
> on a large balloon with a light payload, you run the risk of neutral
> bouyancy. If you take that risk, use a cut down timer to bring everything
> back.
>
> Adding a little more helium isn't going to impact the max altitude very
> much. You must increase the initial volume of helium by 100% to reduce the
> max altitude by 18,000 feet. Variations in the balloon and inaccuracies in
> weighing lift will swamp small variations in the initial helium dump.
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> However, adding a little extra helium does effect your ascent rate and
> therefore your time aloft (which impacts your flight downrange).
>
> So go with the extra helium and get your near spacecraft back sooner.
>
> Paul
>
> On Tue, Jun 22, 2010 at 11:20 AM, k6rpt <Ron@...> wrote:
>
>> I plan to use a 3000g HE with a payload weight of 10 oz and a free lift
>> 2.25 with an estimated peak altitude of 131k. What would be a minimum free
>> lift that would still work?
>>
>> -Ron
>> K6RPT
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>> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

7319. Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 18:23:54 UTC
From: n1ltv
Topic: 7313 Message: 7319

> At the last GPSL I
> ran an experiment to track the internal balloon pressure during the
> flight. The results were surprising to me personally.

Michael,

Could you provide some specific pressure values and/or
graphs please?

Hank

7320. Re: [GPSL] Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 19:21:50 UTC
From: Michael Willett
Topic: 7313 Message: 7320

I have a long story to tell about why I don't have that data, but let's kill the essay here and say "I wish I did have exact data". My data was only recorded by me by hand and then only sporadically, thinking the numbers were bogus, while listening to the very confused voice beacon. We had many problems that flight... We temporarily could not find the planned landing destination for the payload for a over week, :) in which time the processor re-started a few times and recorded over EEPROM data...

I never did calibrate the pressure sensors, so the numbers I recorded are only relative. Here is the extent of what I have in short:

The initial inflation resulted in the relative numbers going from 0 to just over 50 during the initial ascent phase ~1Kft) and then decreasing down to 0 for a lot of the flight (maybe between 30K-60K or so?). After 60K, my GPS went off in the weeds (Copernicus without "Air" option selected...) Before burst (estimated 110Kft or so) the numbers went up to about 25-28 and then burst happened.

You can correlate these numbers to the burst claims for the Kaymont 1200G balloon, which I believe bursts at about 1/10 psi which will put you in the ballpark.

This year I hope to fly a similar sensor package at GPSL, the with the pressure sensor rated at a lower sensing value (1/3psi) and the values given will be in direct Kpascals. I just hope she does not get so lost as usual this time.

--Michael

On 6/22/2010 1:23 PM, n1ltv wrote:
>
> > At the last GPSL I
> > ran an experiment to track the internal balloon pressure during the
> > flight. The results were surprising to me personally.
>
> Michael,
>
> Could you provide some specific pressure values and/or
> graphs please?
>
> Hank
>
>

7321. Re: [GPSL] Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 19:29:14 UTC
From: Mark Conner
Topic: 7313 Message: 7321

Michael,

Very interesting regarding the pressure data. Do you have pictures, etc.,
of how you fit the sensor to the balloon, and what sensor you used last year
and what you plan to use this year?

73 de Mark N9XTN

On Tue, Jun 22, 2010 at 14:21, Michael Willett <mw@...> wrote:

>
>
>
> I have a long story to tell about why I don't have that data, but let's
> kill the essay here and say "I wish I did have exact data". My data was only
> recorded by me by hand and then only sporadically, thinking the numbers were
> bogus, while listening to the very confused voice beacon. We had many
> problems that flight... We temporarily could not find the planned landing
> destination for the payload for a over week, :) in which time the processor
> re-started a few times and recorded over EEPROM data...
>
> I never did calibrate the pressure sensors, so the numbers I recorded are
> only relative. Here is the extent of what I have in short:
>
> The initial inflation resulted in the relative numbers going from 0 to just
> over 50 during the initial ascent phase ~1Kft) and then decreasing down to 0
> for a lot of the flight (maybe between 30K-60K or so?). After 60K, my GPS
> went off in the weeds (Copernicus without "Air" option selected...) Before
> burst (estimated 110Kft or so) the numbers went up to about 25-28 and then
> burst happened.
>
> You can correlate these numbers to the burst claims for the Kaymont 1200G
> balloon, which I believe bursts at about 1/10 psi which will put you in the
> ballpark.
>
> This year I hope to fly a similar sensor package at GPSL, the with the
> pressure sensor rated at a lower sensing value (1/3psi) and the values given
> will be in direct Kpascals. I just hope she does not get so lost as usual
> this time.
>
>
> --Michael
>
>

7322. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 19:35:55 UTC
From: dvpatterson@comcast.net
Topic: 7308 Message: 7322

Floating an under-inflated balloon is a concern, as others have mentioned, but I haven't yet seen the following suggestion:

Fill to ~8 oz per Bill, and launch pre-dawn... you'll get the benefit of solar heating to aid in overcoming the ascent rate "knee" that has been observed. In addition, you'll likely have lower winds, which can be important for a leisurely ascent. I know that Bill has managed to "stall" balloons by flying into dusk, and I've seen the ascent slow down dramatically as the sun goes down on the balloon... just do the opposite. Also, if you get a clear day, a balloon being lit up before dawn hits the ground is an awesome sight, in a small, look-at-that-tiny-bright-spot-in-the-sky kind of way.

-David

----- Original Message -----
From: "k6rpt" <Ron@ MySystem .com>
To: GPSL @ yahoogroups .com
Sent: Monday, June 21, 2010 5:36:29 PM GMT -07:00 US/Canada Mountain
Subject: [GPSL] GPS receivers not working at very high altitudes?

I'm planning a high altitude attempt and I remember some discussion about GPS receivers not working at very high altitudes? I'm planning to use a Garmin GPS 18 LVC , Manufacturer Part No. 010-00321-56 and a Micro-Track 8000 FA. I flew this tracking system on my first flight and it worked well at 105k. Does anybody know of any problems with this GPS receiver at higher altitudes?

-Ron
K6RPT

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7323. Re: Balloon envelope pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 20:17:04 UTC
From: n1ltv
Topic: 7313 Message: 7323

> You can correlate these numbers to the burst claims for the Kaymont
> 1200G balloon, which I believe bursts at about 1/10 psi which will
> put you in the ballpark.

Michael,

I hadn't heard of a pressure rating applied by Kaymont or similar
companies for latex weather balloons. Do you remember where that
figure came from?

I would think to apply a pressure like that with any meaning or utility,
it would have to be a differential pressure between outside or inside;
or perhaps it's just a pressure related to altitude *assuming* some
typical fill volume. If the latter it's not of much use. (This is
why burst is much better specified as a diameter -- all these
uncertainties and variables are eliminated.)

Were you able to measure differential pressure by your setup, or just inside the envelope?

Hank

7324. Re: [GPSL] Re: Balloon envelope pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 21:55:04 UTC
From: Michael Willett
Topic: 7313 Message: 7324

Yes, the way I measured is by default a differential between the atmosphere and the internal balloon pressure. The sensor is a single ended sensor, located in the atmosphere environment (inside the payload container that is not air-tight). The differential is realized by a port into the balloon environment being compared to the atmosphere where the sensor is located. Realize, the sensor is not an altimeter, where an altimeter measures a constant, captive pressure against a changing atmospheric pressure. Instead we are using a sensor ported to the envelope and exposed to the changing atmospheric pressure where the sensor is located, providing a differential reading between envelope pressure and atmosphere pressure. And you are right, if the sensor was closed on the atmospheric side, it would be of no use for balloon pressure monitoring. That is not the case here.

Everything is approximate. Variations in the balloon material, manufacture, etc., make precise determinations nearly impossible, but we can look at where the stress begins pre-burst and deal with that point as an indicator that burst is imminent.

Here are the bursting points from the Kaymont web site:
http://www.kaymont.com/pages/sounding-balloons.cfm

Represented are the 1200,1500,2000 and 3000 gram balloons. Displacement to weight ratio is the key factor to getting high.

*Diameter at Burst (cm) * 863 944 1054 1300
* Bursting Altitude (km) * 33.2 34.2 35.4 37.9
* Bursting Pressure (hPa) * 7.3 6.3 5.3 3.7

--Michael K5NOT

On 6/22/2010 3:17 PM, n1ltv wrote:
>
> > You can correlate these numbers to the burst claims for the Kaymont
> > 1200G balloon, which I believe bursts at about 1/10 psi which will
> > put you in the ballpark.
>
> Michael,
>
> I hadn't heard of a pressure rating applied by Kaymont or similar
> companies for latex weather balloons. Do you remember where that
> figure came from?
>
> I would think to apply a pressure like that with any meaning or utility,
> it would have to be a differential pressure between outside or inside;
> or perhaps it's just a pressure related to altitude *assuming* some

> typical fill volume. If the latter it's not of much use. (This is
> why burst is much better specified as a diameter -- all these
> uncertainties and variables are eliminated.)
>
> Were you able to measure differential pressure by your setup, or just
> inside the envelope?
>
> Hank
>
>

7325. Re: [GPSL] Re: Balloon envelope pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 23:16:09 UTC
From: Joe
Topic: 7313 Message: 7325
Attachments: 1 described; binary payloads are missing from this source WARC

Bursting pressure listed below in that chart from their page is not the pressure inside the balloon. That is the atmospheric pressure at the level of burst. Not the pressure differential. but what the air pressure is at that level.

at 33.2 Km, the air pressure is 7.3 hPa

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/22/2010 4:55 PM, Michael Willett wrote:
>
>
>
> Yes, the way I measured is by default a differential between the
> atmosphere and the internal balloon pressure. The sensor is a single
> ended sensor, located in the atmosphere environment (inside the
> payload container that is not air-tight). The differential is realized
> by a port into the balloon environment being compared to the
> atmosphere where the sensor is located. Realize, the sensor is not an
> altimeter, where an altimeter measures a constant, captive pressure
> against a changing atmospheric pressure. Instead we are using a sensor
> ported to the envelope and exposed to the changing atmospheric
> pressure where the sensor is located, providing a differential reading
> between envelope pressure and atmosphere pressure. And you are right,
> if the sensor was closed on the atmospheric side, it would be of no
> use for balloon pressure monitoring. That is not the case here.
>
> Everything is approximate. Variations in the balloon material,
> manufacture, etc., make precise determinations nearly impossible, but
> we can look at where the stress begins pre-burst and deal with that
> point as an indicator that burst is imminent.
>
> Here are the bursting points from the Kaymont web site:
> http://www.kaymont.com/pages/sounding-balloons.cfm
>
> Represented are the 1200,1500,2000 and 3000 gram balloons.
> Displacement to weight ratio is the key factor to getting high.
>
> *Diameter at Burst (cm) * 863 944 1054 1300

> *Bursting Altitude (km) * 33.2 34.2 35.4 37.9
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>
> --Michael K5NOT
>
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> On 6/22/2010 3:17 PM, n1ltv wrote:
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>> > You can correlate these numbers to the burst claims for the Kaymont
>> > 1200G balloon, which I believe bursts at about 1/10 psi which will
>> > put you in the ballpark.
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>> Michael,
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>> I hadn't heard of a pressure rating applied by Kaymont or similar
>> companies for latex weather balloons. Do you remember where that
>> figure came from?
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>> I would think to apply a pressure like that with any meaning or utility,
>> it would have to be a differential pressure between outside or inside;
>> or perhaps it's just a pressure related to altitude *assuming* some
>> typical fill volume. If the latter it's not of much use. (This is
>> why burst is much better specified as a diameter -- all these
>> uncertainties and variables are eliminated.)
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>> Were you able to measure differential pressure by your setup, or just
>> inside the envelope?
>>
>> Hank
>>
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7326. High altitude flight will be a non-recoverable mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 23:37:09 UTC
From: k6rpt
Topic: 7326 Message: 7326

This high altitude flight will be a non-recoverable mission and will only be carrying a tracker with no parachute. Every advantage I can possibly achieve to gain a higher altitude will help, time of day to launch, free lift, payload weight . . . Thank you all for sharing your flight experiences. If anybody has any input that could possibly help, please let me know.

-Ron
K6RPT

7327. Re: High altitude flight will be a non-recoverable mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-22 23:53:15 UTC
From: n1ltv
Topic: 7326 Message: 7327

> This high altitude flight will be a non-recoverable mission
> and will only be carrying a tracker with no parachute. Every
> advantage I can possibly achieve to gain a higher altitude will
> help, time of day to launch, free lift, payload weight . . .

> If anybody has any input that could possibly help, please let me
> know.

Ron,

Okay, that additional information on what your goal is
will help everyone know exactly what kind of help you're
looking for.

Now people will be able to make all the suggestions about
teeny advantages that will give a thousand feet and a
thousand feet there of max altitude. :)

By the way, you're back to a pound or less of free lift
IF you want to chance a protracted rise to your record
altitude which might be a complete "bust" if you get
a pinhole leak after hours in the bright sunlight.

It's a gamble to go light, light (low free lift), but it
might pay off.

If you're not a risk taker, stick to 1 1/2 to 2 1/2 pounds
free lift would be my suggestion.

Hank

7328. GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 00:03:28 UTC
From: HarryM
Topic: 7328 Message: 7328

I was trying to do some predictions for a flight.
I used the Near Space online prediction program
and then I went to READY to get the data and
there are only 5 choices for the 0-180 GFS data
when there are a dozen or so on the NSV predictor.

Where is NSV getting the data? It's not where it used
to be on the READY site. At least I can't find it!

73 Harry KC5TRB

7329. Re: [GPSL] Re: High altitude flight will be a non-recoverable mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:04:36 UTC
From: Joe
Topic: 7326 Message: 7329
Attachments: 1 described; binary payloads are missing from this source WARC

What Day is the launch and time? and call so we all can watch?

My contribution, is don't touch the balloon.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/22/2010 6:53 PM, n1ltv wrote:
>> This high altitude flight will be a non-recoverable mission
>> and will only be carrying a tracker with no parachute. Every
>> advantage I can possibly achieve to gain a higher altitude will
>> help, time of day to launch, free lift, payload weight . . .
>>
>
>> If anybody has any input that could possibly help, please let me
>> know.
>>
>
> Ron,
>
> Okay, that additional information on what your goal is
> will help everyone know exactly what kind of help you're
> looking for.
>
> Now people will be able to make all the suggestions about
> teeny advantages that will give a thousand feet and a
> thousand feet there of max altitude. :)
>
> By the way, you're back to a pound or less of free lift
> IF you want to chance a protracted rise to your record
> altitude which might be a complete "bust" if you get
> a pinhole leak after hours in the bright sunlight.
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> It's a gamble to go light, light (low free lift), but it
> might pay off.
>
> If you're not a risk taker, stick to 1 1/2 to 2 1/2 pounds
> free lift would be my suggestion.
>
> Hank
>

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7330. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:21:37 UTC
From: Mike Manes
Topic: 7313 Message: 7330

Per LiftWin, you'd need about 3.25 lb neck lift at fill to get 890 fpm
ascent rate. Much less and you risk a stall going off the "Reynolds Cliff".
73 de Mike W5VSI

On 6/22/2010 10:20, k6rpt wrote:
> I plan to use a 3000g HE with a payload weight of 10 oz and a free lift 2.25 with an estimated peak altitude of 131k. What would be a minimum free lift that would still work?
>
> -Ron
> K6RPT
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7331. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:36:05 UTC
From: Mike Manes
Topic: 7313 Message: 7331

Hi Michael,

Hey, thanks for that report on the internal pressure behavior of a latex He balloon over a flight. I've always wondered about that. I did expect to see an abrupt rise in pressure just prior to burst, but the gage >vacuum< is a bit of a surprise, since I'd expect the internal pressure in the envelope to be pretty uniform, despite the gas's bouyancy. I wonder if your external reference pressure might have had a bit of dynamic component due to the slipstream or a bit of venturi effect?

73 de Mike W5VSI
CTO EOSS

On 6/22/2010 11:59, Michael Willett wrote:
>
>
>
> What Paul and Bill are saying here sounds quite counter-intuitive, but
> the statement about a hanging balloon is quite true. At the last GPSL I
> ran an experiment to track the internal balloon pressure during the
> flight. The results were surprising to me personally. However, they
> coincided with findings voiced by Cait, Jules and Amy from UofMN (from
> memory - ??) where they shared a quick comment about strange data on
> balloon pressure. My results in the flight that followed the next day
> reflected strong similarities to their comments.
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> >From this I concluded that the Latex the balloon is made of is not
> made from a "completely" linear expansion material. If it were, you
> could go with the minimum lift to get max altitude. However, the latex
> goes through an initial high-resistance stretching phase at inflation to
> first few thousand feet where the helium pressure reduces greatly, and
> goes up relative to the reluctance of the latex to initially stretch.
> Shortly after, the Latex becomes more relaxed in it's resistance to
> stretching, and this is where the balloon goes through its' nearly
> linear expansion phase to the maximum increase in diameter. Here we even
> find a vacuum being present at the fill nozzle for much of the flight in
> my case, as most of the helium is providing max pressure against the
> balloon top and sides, and the balloon is stretching very, very easily.
> Here is the war between a compressible gas and the mechanical resistance
> to stretch the Latex material, where the Latex is stretching easily and
> near constantly. This near linear area of expansion is the case for
> probably greater than 95% of the balloon ascent. As the balloon reaches
> maximum diameter, the balloon's latex reaches a point of resistance to
> any more expansion ("Captain, she can't take it anymore!") and there is
> a sharp increase in the helium pressure due to the resistance to
> stretching, and the balloon finally bursts.

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> However, if there is not enough helium, the gas compresses slightly at
> this point due to the mechanical resistance to expansion by the balloon.
> And with a slow ascent rate, you can easily achieve neutral buoyancy.
> One would think this whole process is linear due to the near linear
> flight profile, but the mechanical stretch resistance phenomenon is
> there at lift-off and just before burst. The pressure profile looks
> similar to the back of a two-hump camel with a great distance between
> the humps. So if you inflate for minimum lift and the balloon ascends
> lightly, it may never burst due to not having enough compression
> pressure to overcome the mechanical resistance of the latex at altitude,
> and therefore the buoyancy created by displacement is no longer a
> constant because the displacement increase is no longer happening. This
> creates the floater and you will need a cut-down device to bring the
> payload down, or wait for the helium to jump outside the Latex enough
> (days?) to start the descent.
>
> --Michael K5NOT
>
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>> Adding a little more helium isn't going to impact the max altitude
>> very much. You must increase the initial volume of helium by 100% to
>> reduce the max altitude by 18,000 feet. Variations in the balloon and
>> inaccuracies in weighing lift will swamp small variations in the
>> initial helium dump.
>> However, adding a little extra helium does effect your ascent rate and
>> therefore your time aloft (which impacts your flight downrange).
>> So go with the extra helium and get your near spacecraft back sooner.
>> Paul
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>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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Mike Manes mrmanes@... Tel: 303-979-4899
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7332. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:44:54 UTC
From: Joe
Topic: 7313 Message: 7332

On 6/22/2010 9:36 PM, Mike Manes wrote:
> Hi Michael,
>
> Hey, thanks for that report on the internal pressure behavior of a latex He
> balloon over a flight. I've always wondered about that. I did expect to
> see an abrupt rise in pressure just prior to burst, but the gage>vacuum<
> is a bit of a surprise, since I'd expect the internal pressure in the
> envelope to be pretty uniform, despite the gas's bouyancy. I wonder if
> your external reference pressure might have had a bit of dynamic component
> due to the slipstream or a bit of venturi effect?
>
I agree, I can never expect a vacuum nature to be on a latex
balloon. on a GIANT PE balloon yes. but once the barely filled state
has passed the latex is stretched. and I really find it very hard to
imagine a vacuum.

what sensor did you use? what was the pressure full scale spec on it? etc.

Joe WB9SBD
> 73 de Mike W5VSI
> CTO EOSS
>
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>
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>>> On Tue, Jun 22, 2010 at 11:20 AM, k6rpt<Ron@...
>>> <mailto:Ron@...>> wrote:

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>>> Paul
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7333. Re: [GPSL] GPS receivers not working at very high altitudes?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:48:09 UTC
From: Mike Manes
Topic: 7308 Message: 7333

David's right about solar heating. We saw that once when we filled and
tied off in a dead calm to just float the tare weight before sunrise.
Launch was delayed, however, until well after sunrise, and we were surprised
to observe the tare weight having been lifted steady off the deck and tugging
at the safety line tied to the He bottle.

Not sure if that's due to He solar absorptivity being greater than air or
a consequence of the He being constrained by the envelope. But the effect
is quite real - and so is the converse after sunset.

73 de Mike W5VSI

On 6/22/2010 13:35, dvpatterson@... wrote:
>
>
> Floating an under-inflated balloon is a concern, as others have
> mentioned, but I haven't yet seen the following suggestion:
>
> Fill to ~8 oz per Bill, and launch pre-dawn... you'll get the benefit of
> solar heating to aid in overcoming the ascent rate "knee" that has been
> observed. In addition, you'll likely have lower winds, which can be
> important for a leisurely ascent. I know that Bill has managed to
> "stall" balloons by flying into dusk, and I've seen the ascent slow down
> dramatically as the sun goes down on the balloon... just do the
> opposite. Also, if you get a clear day, a balloon being lit up before
> dawn hits the ground is an awesome sight, in a small,
> look-at-that-tiny-bright-spot-in-the-sky kind of way.
>
> -David
>
>
> ----- Original Message -----
> From: "k6rpt" <Ron@...>
> To: GPSL@yahoogroups.com
> Sent: Monday, June 21, 2010 5:36:29 PM GMT -07:00 US/Canada Mountain
> Subject: [GPSL] GPS receivers not working at very high altitudes?
>
> I'm planning a high altitude attempt and I remember some discussion
> about GPS receivers not working at very high altitudes? I'm planning to
> use a Garmin GPS 18 LVC, Manufacturer Part No. 010-00321-56 and a
> Micro-Track 8000 FA. I flew this tracking system on my first flight and
> it worked well at 105k. Does anybody know of any problems with this GPS
> receiver at higher altitudes?
>
> -Ron
> K6RPT

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>

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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7334. Re: [GPSL] Re: Balloon envelope pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 02:54:57 UTC
From: Mike Manes
Topic: 7313 Message: 7334

I'd think that one could find the pressure vs. volume profile of a
latex balloon quite simply by tethering it on the ground or the floor
of a (large) lab. Heck, one could even do it using compressed air,
maybe even from a shop vac, but then one would have to hang to hang
the balloon inverted.

Getting a good static ambient pressure reading (or reference for a
differential reading) while the balloon is ascending can be tricky.
Locating the static pressure port on an aircraft fuselage requires
some cut & try, but of course, the airspeed is a lot greater than
1000 fpm :=P.

73 de Mike W5VSI

On 6/22/2010 14:17, n1ltv wrote:
>> You can correlate these numbers to the burst claims for the Kaymont
>> 1200G balloon, which I believe bursts at about 1/10 psi which will
>> put you in the ballpark.
>
> Michael,
>
> I hadn't heard of a pressure rating applied by Kaymont or similar
> companies for latex weather balloons. Do you remember where that
> figure came from?
>
> I would think to apply a pressure like that with any meaning or utility,
> it would have to be a differential pressure between outside or inside;
> or perhaps it's just a pressure related to altitude *assuming* some
> typical fill volume. If the latter it's not of much use. (This is
> why burst is much better specified as a diameter -- all these
> uncertainties and variables are eliminated.)
>
> Were you able to measure differential pressure by your setup, or just inside the
envelope?
>
> Hank
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> Yahoo! Groups Links
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7335. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 03:44:42 UTC
From: Joe
Topic: 7313 Message: 7335
Attachments: 1 described; binary payloads are missing from this source WARC

H All,

I honestly do not know what we are doing differently than everyone else.
unless it's the H2 factor that it behaved differently than HE does in
these situations?
50 flights in the bag. and out of the 50 maybe 6 or ten at the absolute
MOST have we ever went over 1 pound of extra lift. I bet if we were to
break it down it would work out like this
30 flights 8 ounces extra lift
15 flights 1 pound extra lift
5 flight over 1 pound but never ever over 2 pounds.

And this is all with various payload systems from 300 gram balloons to
2000 grams ones. from payloads that weigh 12 ounces to multiple
payloads that come right up to the 12 pound limit.

and the only stalled floater we have ever had was the Beacon flight,
dead of winter morning launch..

but thats it.

strange?

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/22/2010 9:36 PM, Mike Manes wrote:
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>> --Michael K5NOT

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>>> Onwards and Upwards,
>>> Paul
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7336. Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 05:18:49 UTC
From: k6rpt
Topic: 7336 Message: 7336

The high altitude flight will be K6RPT-14 in the next two or three months. I will announce the flight on GPSL and on ARHAB, the group is California Near Space Project. I'm looking at Liftwin with a 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Peak Altitude 133K. Is this conservative enough to avoid a float? I would like to push it to 135K but my free lift would drop to 1.22 and the Ascent Speed would drop to 640. Is it better to have solar heat or launch pre-dawn? My concern would be the possible expansion from solar heat with less lift compared to HE.

-Ron
K6RPT

7337. Opportunity

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 12:30:09 UTC
From: Keith Kaiser
Topic: 7337 Message: 7337

As many of you know I am in charge of arranging a group balloon flight this September from a Centennial Celebration for the Boy Scouts. The date is September 25th, 2010, the location is Bonner Springs, Kansas, which is not too far from Kansas City.
I need one more group to help with this launch. So far Near Space Ventures, Paul Verhage, and Bill Brown are scheduled to launch, I need one more. Chase teams are already in place, so I really only need people to launch and then track for the kids.

If you think you might be interested please let me know asap and I'll send you more details.

Thanks...

P.S.
The audience is expected to be about 25,000 youth and adults.

Keith Kaiser
(816) 587-9636

7338. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 13:23:11 UTC
From: L. Paul Verhage
Topic: 7313 Message: 7338

Reynolds Cliff, I like that term.

We get a Reynold's knee at around 40,000 feet. At least its my
understanding after talking to the SSOL in Iowa.

Paul

On Tue, Jun 22, 2010 at 9:21 PM, Mike Manes <mrmanes@...> wrote:

> Per LiftWin, you'd need about 3.25 lb neck lift at fill to get 890 fpm
> ascent rate. Much less and you risk a stall going off the "Reynolds
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Onwards and Upwards,
Paul

7339. Re: [GPSL] Opportunity

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 14:30:44 UTC
From: Michael Willett
Topic: 7337 Message: 7339

Doug Loughmiller and I from ARBONET also stepped up for this, we should have been on your list.

We will plan to fly SSTV, X-Band Repeater, Voice Beacon, APRS and I believe Bill's Domino design.

Doug = W5BL
Michael = K5NOT

--Michael

On 6/23/2010 7:30 AM, Keith Kaiser wrote:
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> The audience is expected to be about 25,000 youth and adults.
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> Keith Kaiser
> (816) 587-9636
>
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7340. RE: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 14:40:50 UTC
From: Nick Hanks
Topic: 7313 Message: 7340

An update of the EOSS data on the change in ascent rate (due to the change in the Reynolds Number for a sphere going from turbulent to laminar flow) that we gave last year□s GPSL in Topeka shows:

- For 1200 g balloons, the average change in ascent rate occurred at 40,301 ft. for four sample with a range from 30,561 ft. to 54,641 ft.) and

- For 3000 g balloons, the average change in ascent rate occurred at 49,881 ft. for 20 samples with a range from 29, 997 ft. to 66,702 ft. with a standard deviation of 8,741 ft.

Nick

NØLP

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Wednesday, June 23, 2010 07:23
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] What would be a minimum free lift that would still work?

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A. Einstein

Yahoo! Groups Links

(Yahoo! ID required)

yahoogroups.com

--
Onwards and Upwards,
Paul

7341. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 15:54:35 UTC
From: Joe
Topic: 7313 Message: 7341
Attachments: 1 described; binary payloads are missing from this source WARC

Maybe a "Class" should be told of what this is and what causes it and
why it's called that.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/23/2010 8:23 AM, L. Paul Verhage wrote:
>
>
> Reynolds Cliff, I like that term.
> We get a Reynold's knee at around 40,000 feet. At least its my
> understanding after talking to the SSOL in Iowa.
> Paul
>
> On Tue, Jun 22, 2010 at 9:21 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Per LiftWin, you'd need about 3.25 lb neck lift at fill to get 890 fpm
> ascent rate. Much less and you risk a stall going off the
> "Reynolds Cliff".
> 73 de Mike W5VSI
>
> On 6/22/2010 10:20, k6rpt wrote:
> > I plan to use a 3000g HE with a payload weight of 10 oz and a
> free lift 2.25 with an estimated peak altitude of 131k. What would
> be a minimum free lift that would still work?
> >
> > -Ron
> > K6RPT
> >
> >
> >
> > ------------------------------------
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> > Yahoo! Groups Links
> >
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> --

> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
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7342. Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 16:04:51 UTC
From: n1ltv
Topic: 7313 Message: 7342

> An update of the EOSS data on the change in ascent rate
> (due to the change in the Reynolds Number for a sphere going from
> turbulent to laminar flow) that we gave last year's GPSL in
> Topeka

Nick,

Do you have data for the average total drop in speed after
the knee?

Did you come up with any explanation for the total increase
in speed starting at launch that can sometimes be as great or
greater as the subsequent drop after the knee?

(EOSS-48 data at http://showcase.netins.net/web/wallio/ASCENT.html)

Is any of the EOSS presentation or its results posted on the web?

I think a lot of us unable to attend GPSL would like to see
it.

Hank

7343. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-23 21:31:23 UTC
From: wb8elk@aol.com
Topic: 7313 Message: 7343
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,

Just such a "class" was given at GPSL...perhaps the excellent Powerpoint on the Reynolds knee can be uploaded for those that missed the talk.

- Bill

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: L. Paul Verhage <nearsys@...>
Sent: Wed, Jun 23, 2010 10:54 am
Subject: Re: [GPSL] What would be a minimum free lift that would still work?

Maybe a "Class" should be told of what this is and what causes it and why it's called that.

Joe

The Original Rolling Ball Clock
Idle Tyme
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http://www.idle-tyme.com

On 6/23/2010 8:23 AM, L. Paul Verhage wrote:
Reynolds Cliff, I like that term.

We get a Reynold's knee at around 40,000 feet. At least its my understanding after talking to the SSOL in Iowa.

Paul

On Tue, Jun 22, 2010 at 9:21 PM, Mike Manes <mrmanes@...> wrote:

Per LiftWin, you'd need about 3.25 lb neck lift at fill to get 890 fpm
ascent rate. Much less and you risk a stall going off the "Reynolds Cliff".
73 de Mike W5VSI

On 6/22/2010 10:20, k6rpt wrote:
> I plan to use a 3000g HE with a payload weight of 10 oz and a free lift 2.25 with an estimated peak altitude of 131k. What would be a minimum free lift that would still work?
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> -Ron
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> Yahoo! Groups Links

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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

7344. RE: [GPSL] Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 02:41:28 UTC
From: Nick Hanks
Topic: 7313 Message: 7344

Hank and Bill,

I'll will get with EOSS's crack webmaster Rick get the GPSL presentation from last summer loaded on the website. I'll post a note on this reflector when it's up.

Hank, the average drop in ascent rate was about 31% for the 3000 g balloons and about 28% for the 1200 g balloons. I haven't looked at ascent rate changes just after launch, but I will.

BTW Rick N0KKZ incorporated an ascent rate change into the Balloon Track software that is on the EOSS website. Keith asked for the data to have the online version modified, but I don't know if that's been accomplished or not.

73,

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of n1ltv
Sent: Wednesday, June 23, 2010 10:05
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: What would be a minimum free lift that would still work?

> An update of the EOSS data on the change in ascent rate
> (due to the change in the Reynolds Number for a sphere going from
> turbulent to laminar flow) that we gave last year's GPSL in
> Topeka

Nick,

Do you have data for the average total drop in speed after the knee?

Did you come up with any explanation for the total increase in speed starting at launch that can sometimes be as great or greater as the subsequent drop after the knee?

(EOSS-48 data at http://showcase.netins.net/web/wallio/ASCENT.html)

Is any of the EOSS presentation or its results posted on the web?

I think a lot of us unable to attend GPSL would like to see it.

Hank

7345. Re: [GPSL] Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 02:51:08 UTC
From: Mark Conner
Topic: 7313 Message: 7345

One fairly usual cause of an ascent rate increase between the near-surface rates and the rates at greater than 2000-4000 ft AGL is a low-level temperature inversion. NSTAR had one flight with a low ascent rate that was as low as 70 ft/min before climbing above the inversion and establishing a ~300 ft/min rate for most of the remainder of the flight. Other, not-so-dramatic differences have been noticed on other flights.

If there is coincident temperature data, you'll usually find the peak of the inversion right at the point where the rates begin to increase.

73 de Mark N9XTN

Wed, Jun 23, 2010 at 11:04, n1ltv <n1ltv@...> wrote:

> > An update of the EOSS data on the change in ascent rate
> > (due to the change in the Reynolds Number for a sphere going from
> > turbulent to laminar flow) that we gave last year's GPSL in
> > Topeka
>
>
> Nick,
>
> Do you have data for the average total drop in speed after
> the knee?
>
> Did you come up with any explanation for the total increase
> in speed starting at launch that can sometimes be as great or
> greater as the subsequent drop after the knee?
>
> (EOSS-48 data at http://showcase.netins.net/web/wallio/ASCENT.html)
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> Is any of the EOSS presentation or its results posted on the web?
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> it.
>
> Hank
>
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> Yahoo! Groups Links
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7346. N1VG Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 02:51:52 UTC
From: Pete Lilja
Topic: 7346 Message: 7346

Looks like Scott is having a tough recovery on this flight. It appears they are still enroute to recovery.

Paste N1VG-11, N1VG-6, N1VG-8 into aprs.fi and see for yourself.

Pete
KC0GPB

7347. Re: [GPSL] N1VG Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 03:02:51 UTC
From: Mark Conner
Topic: 7346 Message: 7347

The altitude and position trends after the payload reads a zero speed are strange. I'm guessing it landed upside down and the GPS doesn't have a good fix? Either that or it landed on a ridge and blew downhill.

73 de Mark N9XTN

On Wed, Jun 23, 2010 at 21:51, Pete Lilja <plilja@...> wrote:

>
>
> Looks like Scott is having a tough recovery on this flight. It appears
> they are still enroute to recovery.
>
> Paste N1VG-11, N1VG-6, N1VG-8 into aprs.fi and see for yourself.
>
> Pete
> KC0GPB
>
>
>

7348. Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 03:28:07 UTC
From: w0jrt
Topic: 7214 Message: 7348

Just catching up on the GPSL messages...

H2 has been used by some groups at at least the last three GPSL events. At GPSL two years ago (Kansas City) there were at least three balloons filled with H2 (two from one group), plus a demonstration for anyone who wanted to observe.

I think part of the problem is that there was so much harassment a few years ago by the He-only crowd directed at the H2 users that the H2 users now just silently do their thing without drawing attention to their activities.

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
> I applaud the idea of session at the 2010 GPSL on how to use H2 for fill gas
> safely. If one was done during the past two GPSLs, I regret missing it.

7349. Re: [GPSL] What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 03:28:24 UTC
From: Mike Manes
Topic: 7313 Message: 7349

Could be differences between solar absorbency between He and H2? Got me swingin', Jack. EOSS aims for at least 1000 fpm ascent rate, and we figure the fill based on free lift (gas bubble only) of 115 - 125% of system gross weight. We've only had 1 or 2 latex floaters out of 150 or so, probably due to undetected holes in the skin (meteor damage, huh??).
73 de Mike W5VSI

On 6/22/2010 21:44, Joe wrote:
> H All,
>
> I honestly do not know what we are doing differently than everyone else.
> unless it's the H2 factor that it behaved differently than HE does in
> these situations?
> 50 flights in the bag. and out of the 50 maybe 6 or ten at the absolute
> MOST have we ever went over 1 pound of extra lift. I bet if we were to
> break it down it would work out like this
> 30 flights 8 ounces extra lift
> 15 flights 1 pound extra lift
> 5 flight over 1 pound but never ever over 2 pounds.
>
> And this is all with various payload systems from 300 gram balloons to
> 2000 grams ones. from payloads that weigh 12 ounces to multiple payloads
> that come right up to the 12 pound limit.
>
> and the only stalled floater we have ever had was the Beacon flight,
> dead of winter morning launch..
>
> but thats it.
>
> strange?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/22/2010 9:36 PM, Mike Manes wrote:
>> Hi Michael,
>>
>> Hey, thanks for that report on the internal pressure behavior of a latex He
>> balloon over a flight. I've always wondered about that. I did expect to
>> see an abrupt rise in pressure just prior to burst, but the gage>vacuum<

>> is a bit of a surprise, since I'd expect the internal pressure in the
>> envelope to be pretty uniform, despite the gas's bouyancy. I wonder if
>> your external reference pressure might have had a bit of dynamic component
>> due to the slipstream or a bit of venturi effect?
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 6/22/2010 11:59, Michael Willett wrote:
>>
>>>
>>>
>>> What Paul and Bill are saying here sounds quite counter-intuitive, but
>>> the statement about a hanging balloon is quite true. At the last GPSL I
>>> ran an experiment to track the internal balloon pressure during the
>>> flight. The results were surprising to me personally. However, they
>>> coincided with findings voiced by Cait, Jules and Amy from UofMN (from
>>> memory - ??) where they shared a quick comment about strange data on
>>> balloon pressure. My results in the flight that followed the next day
>>> reflected strong similarities to their comments.
>>>
>>> > From this I concluded that the Latex the balloon is made of is not
>>> made from a "completely" linear expansion material. If it were, you
>>> could go with the minimum lift to get max altitude. However, the latex
>>> goes through an initial high-resistance stretching phase at inflation to
>>> first few thousand feet where the helium pressure reduces greatly, and
>>> goes up relative to the reluctance of the latex to initially stretch.
>>> Shortly after, the Latex becomes more relaxed in it's resistance to
>>> stretching, and this is where the balloon goes through its' nearly
>>> linear expansion phase to the maximum increase in diameter. Here we even
>>> find a vacuum being present at the fill nozzle for much of the flight in
>>> my case, as most of the helium is providing max pressure against the
>>> balloon top and sides, and the balloon is stretching very, very easily.
>>> Here is the war between a compressible gas and the mechanical resistance
>>> to stretch the Latex material, where the Latex is stretching easily and
>>> near constantly. This near linear area of expansion is the case for
>>> probably greater than 95% of the balloon ascent. As the balloon reaches
>>> maximum diameter, the balloon's latex reaches a point of resistance to
>>> any more expansion ("Captain, she can't take it anymore!") and there is
>>> a sharp increase in the helium pressure due to the resistance to
>>> stretching, and the balloon finally bursts.
>>>
>>> However, if there is not enough helium, the gas compresses slightly at
>>> this point due to the mechanical resistance to expansion by the balloon.
>>> And with a slow ascent rate, you can easily achieve neutral buoyancy.
>>> One would think this whole process is linear due to the near linear
>>> flight profile, but the mechanical stretch resistance phenomenon is
>>> there at lift-off and just before burst. The pressure profile looks
>>> similar to the back of a two-hump camel with a great distance between
>>> the humps. So if you inflate for minimum lift and the balloon ascends

>>> lightly, it may never burst due to not having enough compression
>>> pressure to overcome the mechanical resistance of the latex at altitude,
>>> and therefore the buoyancy created by displacement is no longer a
>>> constant because the displacement increase is no longer happening. This
>>> creates the floater and you will need a cut-down device to bring the
>>> payload down, or wait for the helium to jump outside the Latex enough
>>> (days?) to start the descent.
>>>
>>> --Michael K5NOT
>>>
>>>
>>>
>>>
>>> On 6/22/2010 11:35 AM, L. Paul Verhage wrote:
>>>
>>>> I always goes with at least 3 pounds positive lift. With too little
>>>> lift on a large balloon with a light payload, you run the risk of
>>>> neutral bouyancy. If you take that risk, use a cut down timer to bring
>>>> everything back.
>>>> Adding a little more helium isn't going to impact the max altitude
>>>> very much. You must increase the initial volume of helium by 100% to
>>>> reduce the max altitude by 18,000 feet. Variations in the balloon and
>>>> inaccuracies in weighing lift will swamp small variations in the
>>>> initial helium dump.
>>>> However, adding a little extra helium does effect your ascent rate and
>>>> therefore your time aloft (which impacts your flight downrange).
>>>> So go with the extra helium and get your near spacecraft back sooner.
>>>> Paul
>>>>
>>>> On Tue, Jun 22, 2010 at 11:20 AM, k6rpt<Ron@...
>>>> <mailto:Ron@...>> wrote:
>>>>
>>>> I plan to use a 3000g HE with a payload weight of 10 oz and a free
>>>> lift 2.25 with an estimated peak altitude of 131k. What would be a
>>>> minimum free lift that would still work?
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>>>> -Ron
>>>> K6RPT
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>>>> --
>>>> Onwards and Upwards,
>>>> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7350. Re: [GPSL] Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 03:32:04 UTC
From: Joe
Topic: 7214 Message: 7350
Attachments: 1 described; binary payloads are missing from this source WARC

Exactly,

I gave up.

Joe H2 20+ years 50 flights.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/23/2010 10:28 PM, w0jrt wrote:
> Just catching up on the GPSL messages...
>
> H2 has been used by some groups at at least the last three GPSL events. At GPSL two years ago (Kansas City) there were at least three balloons filled with H2 (two from one group), plus a demonstration for anyone who wanted to observe.
>
> I think part of the problem is that there was so much harassment a few years ago by the He-only crowd directed at the H2 users that the H2 users now just silently do their thing without drawing attention to their activities.
>
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>
>> I applaud the idea of session at the 2010 GPSL on how to use H2 for fill gas
>> safely. If one was done during the past two GPSLs, I regret missing it.
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7351. Re: [GPSL] N1VG Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 03:39:26 UTC
From: Pete Lilja
Topic: 7346 Message: 7351

Interesting. Now the balloon payload has settled in to a reported altitude
of 2639 to 2640'. In clicking on the 'Terrain' button and zooming in the
topo lines show it should be at about that elevation. I'm wondering if
they're on foot going for it. It must be getting dark there by now...

Iowa has easier recovery terrain that there!

Pete
KC0GPB

On Wed, Jun 23, 2010 at 10:02 PM, Mark Conner <mconner1@...> wrote:

>
>
> The altitude and position trends after the payload reads a zero speed are
> strange. I'm guessing it landed upside down and the GPS doesn't have a good
> fix? Either that or it landed on a ridge and blew downhill.
>
> 73 de Mark N9XTN
>
>
> On Wed, Jun 23, 2010 at 21:51, Pete Lilja <plilja@...> wrote:
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>>
>>
>> Looks like Scott is having a tough recovery on this flight. It appears
>> they are still enroute to recovery.
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>> Paste N1VG-11, N1VG-6, N1VG-8 into aprs.fi and see for yourself.
>>
>> Pete
>> KC0GPB
>>
>>
>>
>
>

7352. Re: [GPSL] Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 04:01:49 UTC
From: Mike Manes
Topic: 7336 Message: 7352

Hi Ron,

If you fill in the dark, you'll end up with more lift, a higher ascent rate and lower burst than expected once the He warms up in the sun. But don't tarry too late in the morning, unless you're launching from a site that doesn't experience a rise in wind shortly after sunrise.

Now, some of us have experienced something entirely counter-intuitive with respect to the expected inverse relationship between burst altitude and ascent rate. In EOSS's case, we flew two 3000 gm bags with nearly equal neck loads one morning, but one must have got a fatter fill than the other, resulting in about a 30% difference in ascent rate. Could have been solar heating, since the first filled was the faster one.

So did the faster balloon burst lower? No - it made about 10K' higher than the slow one. One theory is that extended UV exposure during a leisurely ascent may deteriorate the latex - or maybe not.

Who says this is a mature art?

73 de Mike W5VSI

On 6/22/2010 23:18, k6rpt wrote:
> The high altitude flight will be K6RPT-14 in the next two or three months. I will announce the flight on GPSL and on ARHAB, the group is California Near Space Project. I'm looking at Liftwin with a 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Peak Altitude 133K. Is this conservative enough to avoid a float? I would like to push it to 135K but my free lift would drop to 1.22 and the Ascent Speed would drop to 640. Is it better to have solar heat or launch pre-dawn? My concern would be the possible expansion from solar heat with less lift compared to HE.
>
> -Ron
> K6RPT
>
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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

7353. Re: [GPSL] Re: Hydrogen

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 04:09:33 UTC
From: Mike Manes
Topic: 7214 Message: 7353

Boy, if there were some harassment going on, maybe I don't regret having
missed that GPSL after all. That's shameful.
73 de Mike W5VSI

On 6/23/2010 21:28, w0jrt wrote:
> Just catching up on the GPSL messages...
>
> H2 has been used by some groups at at least the last three GPSL events. At GPSL two years ago (Kansas City) there were at least three balloons filled with H2 (two from one group), plus a demonstration for anyone who wanted to observe.
>
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> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>> I applaud the idea of session at the 2010 GPSL on how to use H2 for fill gas
>> safely. If one was done during the past two GPSLs, I regret missing it.
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> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7354. Re: [GPSL] Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 04:15:06 UTC
From: Joe
Topic: 7336 Message: 7354
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mike,

I can't imagine that a hour or two difference would make that much difference.

Now manufacturing differences for sure I would believe this, I am surprised as to the lowering of the quality of Totex since when they were the hungry newcomer trying to beat Kaysam.

Now days you can open two balloons and they look different to each other, and then even the balloon itself has many in consistencies in them now. I remember when I first started using them in the 80's they were pure white all the time, and perfectly smooth in color all pure white, not a trace of a teture or any irregularities. now it's the norm.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/23/2010 11:01 PM, Mike Manes wrote:
> Hi Ron,
>
> If you fill in the dark, you'll end up with more lift, a higher ascent rate
> and lower burst than expected once the He warms up in the sun. But don't
> tarry too late in the morning, unless you're launching from a site that
> doesn't experience a rise in wind shortly after sunrise.
>
> Now, some of us have experienced something entirely counter-intuitive
> with respect to the expected inverse relationship between burst altitude
> and ascent rate. In EOSS's case, we flew two 3000 gm bags with nearly equal
> neck loads one morning, but one must have got a fatter fill than the other,
> resulting in about a 30% difference in ascent rate. Could have been solar
> heating, since the first filled was the faster one.
>
> So did the faster balloon burst lower? No - it made about 10K' higher than
> the slow one. One theory is that extended UV exposure during a leisurely
> ascent may deteriorate the latex - or maybe not.
>
> Who says this is a mature art?
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>

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>> The high altitude flight will be K6RPT-14 in the next two or three months. I will announce the flight on GPSL and on ARHAB, the group is California Near Space Project. I'm looking at Liftwin with a 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Peak Altitude 133K. Is this conservative enough to avoid a float? I would like to push it to 135K but my free lift would drop to 1.22 and the Ascent Speed would drop to 640. Is it better to have solar heat or launch pre-dawn? My concern would be the possible expansion from solar heat with less lift compared to HE.
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>> -Ron
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7355. Re: Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 04:45:10 UTC
From: k6rpt
Topic: 7336 Message: 7355

If extended UV exposure can possibly break down the integrity of the balloon would there be any disadvantages to fly in the middle of the night?

-Ron
K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Ron,
>
> If you fill in the dark, you'll end up with more lift, a higher ascent rate
> and lower burst than expected once the He warms up in the sun. But don't
> tarry too late in the morning, unless you're launching from a site that
> doesn't experience a rise in wind shortly after sunrise.
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> with respect to the expected inverse relationship between burst altitude
> and ascent rate. In EOSS's case, we flew two 3000 gm bags with nearly equal
> neck loads one morning, but one must have got a fatter fill than the other,
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> On 6/22/2010 23:18, k6rpt wrote:
> > The high altitude flight will be K6RPT-14 in the next two or three months. I will announce the flight on GPSL and on ARHAB, the group is California Near Space Project. I'm looking at Liftwin with a 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Peak Altitude 133K. Is this conservative enough to avoid a float? I would like to push it to 135K but my free lift would drop to 1.22 and the Ascent Speed would drop to 640. Is it better to have solar heat or launch pre-dawn? My concern would be the possible expansion from solar heat with less lift compared to HE.
> >
> > -Ron
> > K6RPT
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

7356. n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 18:12:41 UTC
From: Mark Caviezel
Topic: 7356 Message: 7356

Gang:
At the risk of posting some non-GPSL related data here, I'll share some info on yesterday's flight. Launch was from near Victorville, CA, predicted landing near Barstow, CA.
Scott's very nice tracker worked great on a prior test flight, on the ground, and from the surface to 14k feet MSL. Then, the GPS lost lock. We hypothesized that there was a GPS death ray coming out of Edwards or 29 Palms. Although getting no lat/long, temp, battery voltage and pressure were coming through. We proceeded to a pre-planned interim tracking site, attained visual contact with the balloon through burst. Scott and I separated on a ~2 mile baseline with the hope of receiving packets after the balloon descended lower, under the theorized 'death ray'. Indeed, we got ONE and only one valid packet at about 1000 feet AGL. (It seems likely we had a rapid descent with near 100% shard retention and likely shard/parachute fouling). We made an easy
walk-in recovery, about 0.6 miles from I-15 south of Barstow. Indeed, one of the team members made a visual contact about 0.5 miles away, spotting sun glint off of Scott's radar reflector.

We later learned there was a NOTAM for 'unreliable GPS data' in the vicinity of Edwards. (!)

Despite the efforts of the US Military, this streamlined flight was fun and attained 100% recovery less than half an hour after touchdown.

best

- Mark ng0x

7357. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 18:29:03 UTC
From: Joe
Topic: 7356 Message: 7357
Attachments: 1 described; binary payloads are missing from this source WARC

Mark, Can you please give me the specs on the flight train? balloon type, distance from chute, chute to payload etc?

I an gonna try to see if there is a pattern as to the balloon and chute foul ups.

I want to see what others are doing, that we do different.

We have now had 50 flights, and not once had a chute become fouled by the balloon.

Maybe i can learn what we do differently for everyones benefit. Because This seems to be a semi common problem, that we have never ever had hapen to us.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/24/2010 1:12 PM, Mark Caviezel wrote:
> Gang:
> At the risk of posting some non-GPSL related data here, I'll share some info on yesterday's flight. Launch was from near Victorville, CA, predicted landing near Barstow, CA. Scott's very nice tracker worked great on a prior test flight, on the ground, and from the surface to 14k feet MSL. Then, the GPS lost lock. We hypothesized that there was a GPS death ray coming out of Edwards or 29 Palms. Although getting no lat/long, temp, battery voltage and pressure were coming through. We proceeded to a pre-planned interim tracking site, attained visual contact with the balloon through burst. Scott and I separated on a ~2 mile baseline with the hope of receiving packets after the balloon descended lower, under the theorized 'death ray'. Indeed, we got ONE and only one valid packet at about 1000 feet AGL. (It seems likely we had a rapid descent with near 100% shard retention and likely shard/parachute fouling). We made an easy
> walk-in recovery, about 0.6 miles from I-15 south of Barstow. Indeed, one of the team members made a visual contact about 0.5 miles away, spotting sun glint off of Scott's radar reflector.
>
> We later learned there was a NOTAM for 'unreliable GPS data' in the vicinity of Edwards. (!)
>
> Despite the efforts of the US Military, this streamlined flight was fun and attained 100% recovery less than half an hour after touchdown.
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> best

>
> - Mark ng0x
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7358. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 18:40:23 UTC
From: Mark Caviezel
Topic: 7356 Message: 7358

Joe:
A caviat: we need to take the time to look at the pressure v time data to determine the descent rate and then see if the descent rate indeed indicates a fouled chute.

best
 - mark ng0x

7359. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 19:18:07 UTC
From: Joe
Topic: 7356 Message: 7359
Attachments: 1 described; binary payloads are missing from this source WARC

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The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/24/2010 1:40 PM, Mark Caviezel wrote:
> Joe:
> A caviat: we need to take the time to look at the pressure v time
> data to determine the descent rate and then see if the descent rate
> indeed indicates a fouled chute.
>
> best
> - mark ng0x
>

7360. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-24 19:58:27 UTC
From: Mark Conner
Topic: 7356 Message: 7360

For those like me who were thoroughly confused, Scott had two flights yesterday, one in the morning and one in the evening. Mark's description below is for the morning flight.

73 de Mark N9XTN

On Thu, Jun 24, 2010 at 13:12, Mark Caviezel <kmcaviezel@...> wrote:

> Gang:
> At the risk of posting some non-GPSL related data here, I'll share some
> info on yesterday's flight. Launch was from near Victorville, CA,
> predicted landing near Barstow, CA. Scott's very nice tracker worked great
> on a prior test flight, on the ground, and from the surface to 14k feet
> MSL. Then, the GPS lost lock. We hypothesized that there was a GPS death
> ray coming out of Edwards or 29 Palms. Although getting no lat/long, temp,
> battery voltage and pressure were coming through. We proceeded to a
> pre-planned interim tracking site, attained visual contact with the balloon
> through burst. Scott and I separated on a ~2 mile baseline with the hope of
> receiving packets after the balloon descended lower, under the theorized
> 'death ray'. Indeed, we got ONE and only one valid packet at about 1000
> feet AGL. (It seems likely we had a rapid descent with near 100% shard
> retention and likely shard/parachute fouling). We made an easy
> walk-in recovery, about 0.6 miles from I-15 south of Barstow. Indeed, one
> of the team members made a visual contact about 0.5 miles away, spotting sun
> glint off of Scott's radar reflector.
>
> We later learned there was a NOTAM for 'unreliable GPS data' in the
> vicinity of Edwards. (!)
>
> Despite the efforts of the US Military, this streamlined flight was fun and
> attained 100% recovery less than half an hour after touchdown.
>
> best
>
> - Mark ng0x
>
>

7361. Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 01:39:19 UTC
From: n1ltv
Topic: 7313 Message: 7361

> I'll will get with EOSS's crack webmaster Rick get the GPSL
> presentation from last summer loaded on the website. I'll post a
> note on this reflector when it's up.

Thanks, Nick.

Were you one of the authors or the sole author?

7362. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 01:42:57 UTC
From: Roger Hammond
Topic: 7356 Message: 7362

I'm glad I wasn't the only one scratching my head.

Rog KC0MWM

Sent from my Motorola Droid

On Jun 24, 2010 2:58 PM, "Mark Conner" <mconner1@...> wrote:

For those like me who were thoroughly confused, Scott had two flights
yesterday, one in the morning and one in the evening. Mark's description
below is for the morning flight.

73 de Mark N9XTN

On Thu, Jun 24, 2010 at 13:12, Mark Caviezel <kmcaviezel@...> wrote:
>
> Gang:
> At the risk...

7363. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 02:03:24 UTC
From: HarryM
Topic: 7328 Message: 7363

bump

I was trying to do some predictions for a flight.
I used the Near Space online prediction program
and then I went to READY to get the data and
there are only 5 choices for the 0-180 GFS data
when there are a dozen or so on the NSV predictor.

Where is NSV getting the data? It's not where it used
to be on the READY site. At least I can't find it!

73 Harry KC5TRB

7364. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 02:37:04 UTC
From: Mark Conner
Topic: 7328 Message: 7364

I don't understand the question - 5 choices of what?

73 de Mark N9XTN

On 06/22/2010, HarryM <hhm_74115@...> wrote:
> I was trying to do some predictions for a flight.
> I used the Near Space online prediction program
> and then I went to READY to get the data and
> there are only 5 choices for the 0-180 GFS data
> when there are a dozen or so on the NSV predictor.
>
> Where is NSV getting the data? It's not where it used
> to be on the READY site. At least I can't find it!
>
> 73 Harry KC5TRB
>

--
Sent from my mobile device

7365. RE: [GPSL] Re: What would be a minimum free lift that would still work?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 03:12:13 UTC
From: Nick Hanks
Topic: 7313 Message: 7365

Sole author.

Did the first presentation on this subject at GPSL 2007 in Grand Island, NE.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of n1ltv
Sent: Thursday, June 24, 2010 19:39
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: What would be a minimum free lift that would still work?

> I'll will get with EOSS's crack webmaster Rick get the GPSL
> presentation from last summer loaded on the website. I'll post a
> note on this reflector when it's up.

Thanks, Nick.

Were you one of the authors or the sole author?

7366. Re: [GPSL] Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 03:37:31 UTC
From: Mike Manes
Topic: 7336 Message: 7366

Hi Joe,

It's not time but temperature - specifically of the He bolus getting hit by sunlight after the fill. And the effect is observable in well less than an hour, at this altitude, at least.

We don't do many 1200's - mainly 3000's for Space Grant, USAFRL, etc, and I haven't seen much change in their appearance. In fact, our last two flights, launched in the rain thru a freezing cloud layer, brought back both shards (the fast release iced up), and the shards looked nice and white, as did both balloons at fill.

73 de Mike W5VSI

On 6/23/2010 22:15, Joe wrote:
> Hi Mike,
>
> I can't imagine that a hour or two difference would make that much
> difference.
>
> Now manufacturing differences for sure I would believe this, I am
> surprised as to the lowering of the quality of Totex since when they
> were the hungry newcomer trying to beat Kaysam.
>
> Now days you can open two balloons and they look different to each
> other, and then even the balloon itself has many in consistencies in
> them now. I remember when I first started using them in the 80's they
> were pure white all the time, and perfectly smooth in color all pure
> white, not a trace of a teture or any irregularities. now it's the norm.
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/23/2010 11:01 PM, Mike Manes wrote:
>> Hi Ron,
>>
>> If you fill in the dark, you'll end up with more lift, a higher ascent rate
>> and lower burst than expected once the He warms up in the sun. But don't
>> tarry too late in the morning, unless you're launching from a site that
>> doesn't experience a rise in wind shortly after sunrise.
>>
>> Now, some of us have experienced something entirely counter-intuitive

>> with respect to the expected inverse relationship between burst altitude
>> and ascent rate. In EOSS's case, we flew two 3000 gm bags with nearly equal
>> neck loads one morning, but one must have got a fatter fill than the other,
>> resulting in about a 30% difference in ascent rate. Could have been solar
>> heating, since the first filled was the faster one.
>>
>> So did the faster balloon burst lower? No - it made about 10K' higher than
>> the slow one. One theory is that extended UV exposure during a leisurely
>> ascent may deteriorate the latex - or maybe not.
>>
>> Who says this is a mature art?
>>
>> 73 de Mike W5VSI
>>
>> On 6/22/2010 23:18, k6rpt wrote:
>>
>>> The high altitude flight will be K6RPT-14 in the next two or three months. I will announce the flight on GPSL and on ARHAB, the group is California Near Space Project. I'm looking at Liftwin with a 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Peak Altitude 133K. Is this conservative enough to avoid a float? I would like to push it to 135K but my free lift would drop to 1.22 and the Ascent Speed would drop to 640. Is it better to have solar heat or launch pre-dawn? My concern would be the possible expansion from solar heat with less lift compared to HE.
>>>
>>> -Ron
>>> K6RPT
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7367. Re: [GPSL] Re: Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 03:48:02 UTC
From: Mike Manes
Topic: 7336 Message: 7367

Lack of sleep, no see & avoid by other aircraft unless you're carrying a strobe light, and recovery difficulties are all I can think of.
73 de Mike W5VSI

On 6/23/2010 22:45, k6rpt wrote:
> If extended UV exposure can possibly break down the integrity of the balloon would there be any disadvantages to fly in the middle of the night?
>
> -Ron
> K6RPT
>
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Hi Ron,
>>
>> If you fill in the dark, you'll end up with more lift, a higher ascent rate
>> and lower burst than expected once the He warms up in the sun. But don't
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>>>

>>> -Ron
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Mike Manes mrmanes@... Tel: 303-979-4899
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7368. Re: [GPSL] Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 03:54:58 UTC
From: Joe
Topic: 7336 Message: 7368
Attachments: 1 described; binary payloads are missing from this source WARC

?

You said,
"One theory is that extended UV exposure during a leisurely
ascent may deteriorate the latex - or maybe not. "

Thats what I was referring to.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/24/2010 10:37 PM, Mike Manes wrote:
> Hi Joe,
>
> It's not time but temperature - specifically of the He bolus getting hit
> by sunlight after the fill. And the effect is observable in well less
> than
> an hour, at this altitude, at least.
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> flights, launched in the rain thru a freezing cloud layer, brought back
> both shards (the fast release iced up), and the shards looked nice and
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> 73 de Mike W5VSI
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> On 6/23/2010 22:15, Joe wrote:
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>> difference.
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>> Now manufacturing differences for sure I would believe this, I am
>> surprised as to the lowering of the quality of Totex since when they
>> were the hungry newcomer trying to beat Kaysam.
>>
>> Now days you can open two balloons and they look different to each
>> other, and then even the balloon itself has many in consistencies in
>> them now. I remember when I first started using them in the 80's they
>> were pure white all the time, and perfectly smooth in color all pure

>> white, not a trace of a teture or any irregularities. now it's the norm.
>>
>> Joe
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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>> http://www.idle-tyme.com
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>> On 6/23/2010 11:01 PM, Mike Manes wrote:
>>> Hi Ron,
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>>> If you fill in the dark, you'll end up with more lift, a higher
>>> ascent rate
>>> and lower burst than expected once the He warms up in the sun. But
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>>> tarry too late in the morning, unless you're launching from a site that
>>> doesn't experience a rise in wind shortly after sunrise.
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>>> Now, some of us have experienced something entirely counter-intuitive
>>> with respect to the expected inverse relationship between burst
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>>> and ascent rate. In EOSS's case, we flew two 3000 gm bags with
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>>> neck loads one morning, but one must have got a fatter fill than the
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>>> Who says this is a mature art?
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>>> On 6/22/2010 23:18, k6rpt wrote:
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>>>> Ascent Speed 730, Peak Altitude 133K. Is this conservative enough
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7369. Re: [GPSL] Is it better to have solar heat or launch pre-dawn?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 03:59:59 UTC
From: Joe
Topic: 7336 Message: 7369
Attachments: 2 described; binary payloads are missing from this source WARC

Question for everyone,

What does the radiation curve for UV light look like as you go higher?

There must be a chart someplace i would think?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/24/2010 10:54 PM, Joe wrote:
> ?
>
> You said,
> "One theory is that extended UV exposure during a leisurely
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> Thats what I was referring to.
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>>>> and lower burst than expected once the He warms up in the sun. But
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>>>> tarry too late in the morning, unless you're launching from a site
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>>>> with respect to the expected inverse relationship between burst
>>>> altitude
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>>>> neck loads one morning, but one must have got a fatter fill than
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>>>> resulting in about a 30% difference in ascent rate. Could have been
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>>>> So did the faster balloon burst lower? No - it made about 10K'
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>>>> the slow one. One theory is that extended UV exposure during a

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>>>> On 6/22/2010 23:18, k6rpt wrote:
>>>>
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>>>>> 3000g HE, Total Payload .75, Free Lift 1.63, Time to Burst 3.0,
>>>>> Ascent Speed 730, Peak Altitude 133K. Is this conservative enough
>>>>> to avoid a float? I would like to push it to 135K but my free lift
>>>>> would drop to 1.22 and the Ascent Speed would drop to 640. Is it
>>>>> better to have solar heat or launch pre-dawn? My concern would be
>>>>> the possible expansion from solar heat with less lift compared to HE.
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>>>>> -Ron
>>>>> K6RPT
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7370. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 04:05:28 UTC
From: Mike Manes
Topic: 7356 Message: 7370

Per EOSS's GPS gurus, one can get a GPS jammer off the internet for about $100 - some folks use 'em to mess up stolen car trackers, e.g. Not all that tough to make broadband noise on 1.5 GHz. Illegal? You bet! But so is auto theft.

73 de Mike W5VSI

On 6/24/2010 12:12, Mark Caviezel wrote:
> Gang:
> At the risk of posting some non-GPSL related data here, I'll share some info on yesterday's flight. Launch was from near Victorville, CA, predicted landing near Barstow, CA. Scott's very nice tracker worked great on a prior test flight, on the ground, and from the surface to 14k feet MSL. Then, the GPS lost lock. We hypothesized that there was a GPS death ray coming out of Edwards or 29 Palms. Although getting no lat/long, temp, battery voltage and pressure were coming through. We proceeded to a pre-planned interim tracking site, attained visual contact with the balloon through burst. Scott and I separated on a ~2 mile baseline with the hope of receiving packets after the balloon descended lower, under the theorized 'death ray'. Indeed, we got ONE and only one valid packet at about 1000 feet AGL. (It seems likely we had a rapid descent with near 100% shard retention and likely shard/parachute fouling). We made an easy
> walk-in recovery, about 0.6 miles from I-15 south of Barstow. Indeed, one of the team members made a visual contact about 0.5 miles away, spotting sun glint off of Scott's radar reflector.
>
> We later learned there was a NOTAM for 'unreliable GPS data' in the vicinity of Edwards. (!)
>
> Despite the efforts of the US Military, this streamlined flight was fun and attained 100% recovery less than half an hour after touchdown.
>
> best
>
> - Mark ng0x
>
>
>
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>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7371. Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 06:36:13 UTC
From: wb8elk@aol.com
Topic: 7356 Message: 7371

Mark,

You also have the following military bases closer to the flight path than Edwards: 29 Palms, China Lake and the Goldstone Deep Space Network. BTW, my quick seat of the pants prediction of the flight was pretty close to the actual landing. A big thanks to our local ham store Gigaparts for letting me commandeer their computer to make the prediction when Scott called me on my cell phone.

Looking at Scott's landing coordinates on APRS.FI, it shows it landed 3600 feet from the prediction I gave him during the ascent.

- Bill WB8ELK

-----Original Message-----
From: Mark Caviezel <kmcaviezel@...>
To: GPSL@yahoogroups.com; Joe <nss@...>
Sent: Thu, Jun 24, 2010 1:40 pm
Subject: Re: [GPSL] n1vg 1, USAF 0, GPS jamming out of Edwards AFB

Joe:
A caviat: we need to take the time to look at the pressure v time data to determine the descent rate and then see if the descent rate indeed indicates a fouled chute.

best
- mark ng0x

7372. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 13:48:44 UTC
From: HarryM
Topic: 7328 Message: 7372

There are only 5 data sets to choose from on READY.
On NSV there are the normal dozen and a half data sets to choose from.

I don't understand the question - 5 choices of what?

7373. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 13:55:11 UTC
From: Mark Conner
Topic: 7328 Message: 7373
Attachments: 1 described; binary payloads are missing from this source WARC

Harry,

Is this the screen you're referring to (attached)? This selects either the latest model run or one of the previous ones. Select the one at the top unless you have a specific reason to want to look at the others.

This is a new feature added to READY in the last few months.

- Mark

On Fri, Jun 25, 2010 at 08:48, HarryM <hhm_74115@...> wrote:

>
>
> There are only 5 data sets to choose from on READY.
> On NSV there are the normal dozen and a half data sets to choose from.
>
>
>
>
> I don't understand the question - 5 choices of what?
>
>
>
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>
>

7374. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 13:56:44 UTC
From: Mark Conner
Topic: 7328 Message: 7374

After you select this, you'll be taken to the more familiar screen where you select the time step nearest your launch time.

- Mark

On Fri, Jun 25, 2010 at 08:55, Mark Conner <mconner1@...> wrote:

> Harry,
>
> Is this the screen you're referring to (attached)? This selects either the
> latest model run or one of the previous ones. Select the one at the top
> unless you have a specific reason to want to look at the others.
>
> This is a new feature added to READY in the last few months.
>
> - Mark
>
>
> On Fri, Jun 25, 2010 at 08:48, HarryM <hhm_74115@...> wrote:
>
>>
>>
>> There are only 5 data sets to choose from on READY.
>> On NSV there are the normal dozen and a half data sets to choose from.
>>
>>
>>
>>
>> I don't understand the question - 5 choices of what?
>>
>
>

7375. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 14:04:09 UTC
From: HarryM
Topic: 7328 Message: 7375

AhhHaa... Got it!
I was confused by the new inteface.
It's been a while since I've been on the READY site.
Thanks Mark!

73 Harry

> After you select this, you'll be taken to the more familiar screen where you select the time step nearest your launch time.

7376. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 14:47:22 UTC
From: BASE
Topic: 7328 Message: 7376

Harry,
I went to this site:
http://ready.arl.noaa.gov/READYcmet.php
I entered my launch location and pressed continue.
This brought me to a page that says READY options menu. I chose the GFS (0-180 hr, 3hrly, Global) from the soundings drop down menu. I pressed Go.
This brought up the page that says choose Meterological Forecast Cycle. There are four choices with the most recent as the first choice. I selected it and pressed Next.
This brought up the page GFS sounding, where you can choose whichever 3hr time interval from the 180 hr window, and make the appropriate choice of full sounding, text only, etc. This screen also has the six-letter access code box. I entered the code, pressed Get Sounding and the text popped up on the next screen. I copied it and entered it into Near Space Ventures right side window and got the expected flight profile. It also worked in Balloon Track as expected.
Hope this helps,Howard

--- On Fri, 6/25/10, HarryM <hhm_74115@...> wrote:

From: HarryM <hhm_74115@...>
Subject: Re: [GPSL] GFS Data on READY
To: GPSL@...m
Date: Friday, June 25, 2010, 9:48 AM

There are only 5 data sets to choose from on
READY.
On NSV there are the normal dozen and a half
data sets to choose from.

I don't understand the question - 5 choices of what?

7377. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 14:51:45 UTC
From: BASE
Topic: 7328 Message: 7377

Sorry to be late in adding the step-by-step. The additional screen as Mark noted was part of the challenge that NSV faced a couple of months ago when ARL made the change. Every time I go through the multiple steps to get my own sounding prediction, I appreciate what Troy has done to make it seem so easy through their website.
Hope to see you at GPSL,Howard

7378. Field Day

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 16:16:34 UTC
From: Keith Kaiser
Topic: 7378 Message: 7378

Anyone know of a field day going on near Cary, NC?

7379. Re: [GPSL] Field Day

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 16:50:19 UTC
From: gregwilliams@knology.net
Topic: 7378 Message: 7379

Using FD locator:

W4DW
Raleigh Amateur Radio Society
35.670, -78.913
NC
GOTA: YES
Contact: Mike Murphy
919-637-4945
wa4bpj@...
www.rars.org

N4SWC
South Wake ARC
6400 Johnson pond Road
Fuquay Varina, NC
GOTA: YES
Talk-in: (82.5)
Contact: Steve Mowels
9193908970
ka0gmy@...
southwakearc.com

K4M
Capital Amateur Radio Society
340 Lucian Bland Rd
Pittsboro, NC
GOTA: YES
Contact: J. R. Hendricks
919-247-4466
w4pq@...

W4EZ
Orange County Radio Amateurs/Durham FM Association
NC 86 S & New Hope Church Road
Hillsborough, NC
GOTA: no
Talk-in: 442.150(pl131.8), 147.225
Contact: David Snyder
919-824-4888
w4sar@...
www.ncocra.org

NR3X
NC Contesters
125 highway 1-a

Youngsville, NC
GOTA: no
Contact: Nate Moreschi
919 612 5934
n4ydu@...
n4ydu.weebly.com

NC4CA
Four County ARES
5662 Cornwall Road
Oxford, NC
GOTA: no
Talk-in: 145.170 (-) 100.0 pl
Contact: Tom Hillery
919-693-8440
kg4edy@...
www.qsl.net/nc4ca

http://www.arrl.org/field-day-locator

On Fri 06/25/10 12:16 PM , Keith Kaiser wa0tjt@... sent:
> Anyone know of a field day going on near Cary, NC?
>
>
> Links:
> ------
> [3]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwY2VnbWlxBF9TAzk3MzU5Nz
> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzczNzgEc2VjA2Z0cgRzb
> GsDcnBseQRzdGltZQMxMjc3NDgyNjY4?act=reply&messageNum=7378[4]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJldDdzb2tiBF9TAzk3MzU5Nz
> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3Rpb
> WUDMTI3NzQ4MjY2OA--[5]
> http://groups.yahoo.com/group/GPSL/message/7378;_ylc=X3oDMTM0a2phdHU1BF9TAz
> k3MzU5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzczNzgEc2VjA
> 2Z0cgRzbGsDdnRwYwRzdGltZQMxMjc3NDgyNjY4BHRwY0lkAzczNzg-[6]
> http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlN3NrZGtvBF9TAzk3MzU5NzE0BGd
> ycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMT
> I3NzQ4MjY2OA--[7]
> http://us.ard.yahoo.com/SIG=15o0gs6ud/M=493064.13983314.14041046.13298430/D
> =groups/S=1705063108:MKP1/Y=YAHOO/EXP=1277489869/L=32956650-8075-11df-bc39-
> d7352777df0d/B=PzcR62KImmg-/J=1277482669267281/K=wBXZ0gXZDMeYgRoVT02Nug/A=6
> 060255/R=0/SIG=1194m4keh/*http://us.toolbar.yahoo.com/?.cpdl=grpj[8]
> http://us.ard.yahoo.com/SIG=15o4ujnag/M=493064.13814537.14041040.10835568/D
> =groups/S=1705063108:MKP1/Y=YAHOO/EXP=1277489869/L=32956650-8075-11df-bc39-
> d7352777df0d/B=QDcR62KImmg-/J=1277482669267281/K=wBXZ0gXZDMeYgRoVT02Nug/A=6
> 078812/R=0/SIG=114ae4ln1/*http://dogandcatanswers.yahoo.com/[9]
> http://us.ard.yahoo.com/SIG=15o64d1dp/M=493064.14012770.13963757.13298430/D
> =groups/S=1705063108:MKP1/Y=YAHOO/EXP=1277489869/L=32956650-8075-11df-bc39-
> d7352777df0d/B=QTcR62KImmg-/J=1277482669267281/K=wBXZ0gXZDMeYgRoVT02Nug/A=6
> 093983/R=0/*http://us.lrd.yahoo.com/_ylc=X3oDMTFnaW51Y3EyBHRtX2RtZWNoA1RleH

> QgTGluawR0bV9sbmsDVTExMjc3MDUEdG1fbmV0A1lhaG9vIQ--/SIG=1219e5kan/**http://t
> oolbar.yahoo.com/tour%3Ftab=wc%26.intl=us%26.cpdl=wc[10]
> http://groups.yahoo.com/;_ylc=X3oDMTJkZG0wNThoBF9TAzk3MzU5NzE0BGdycElkAzY3N
> jQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjc3NDgyNjY4[14]
http://docs.yahoo.com/info/terms/
>
>

7380. Field Day Balloon from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 17:29:58 UTC
From: wb8elk@aol.com
Topic: 7378 Message: 7380

I'm launching a balloon here in Huntsville, AL for Field Day....1:00 pm this Saturday.

It'll be carrying a DominoEX22, 300 baud RTTY and CW/Hellscreiber payload on 144.34 MHz FM.

Launch from the NSSTC building in Huntsville: 34.725 -86.646 at 1:00 pm Saturday June 26th.

Predicted landing spot: Huntsville Amateur Radio Club's Field Day site (how's that for balloon mail?)

We'll be hitching a ride on the ozonesonde.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: gpsl <GPSL@yahoogroups.com>
Cc: APRS@yahoogroups.com
Sent: Fri, Jun 25, 2010 11:16 am
Subject: [GPSL] Field Day

Anyone know of a field day going on near Cary, NC?

7381. Streaming Video of Field Day Balloon this Saturday from Huntsville AL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 18:20:26 UTC
From: wb8elk@aol.com
Topic: 7381 Message: 7381

Forgot to mention that I'll be streaming video of the launch and recovery:

www.batc.tv

Click on Members Streams

Select WB8ELK

7382. Field Day Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 20:15:02 UTC
From: Roger Hammond
Topic: 7382 Message: 7382

I'll be launching a small 100 gram balloon with an AM Morse Code beacon "KC0MWM Balloon" on 433.925 MHz (+/- drift).

I won't be chasing this one, but would appreciate any signal reports.

Launch will be at 1400 CDT from the southern part of Hastings, NE and expected touchdown is 45 degrees and 48 miles downrange. About 10 - 15 miles north of I-80 near Bradshaw, NE.

Happy Field Day

73 de Roger KC0MWM

7383. Re: Field Day Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 21:01:35 UTC
From: Roger Hammond
Topic: 7382 Message: 7383

Sorry. This will be tomorrow (Saturday) at 1400 CDT.

Rog KC0MWM

On Fri, Jun 25, 2010 at 3:15 PM, Roger Hammond <kc0mwm@...> wrote:
> I'll be launching a small 100 gram balloon with an AM Morse Code
> beacon "KC0MWM Balloon" on 433.925 MHz (+/- drift).
>
> I won't be chasing this one, but would appreciate any signal reports.
>
> Launch will be at 1400 CDT from the southern part of Hastings, NE and
> expected touchdown is 45 degrees and 48 miles downrange. About 10 - 15
> miles north of I-80 near Bradshaw, NE.
>
> Happy Field Day
>
> 73 de Roger KC0MWM
>

7384. Re: [GPSL] Field Day Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 21:01:12 UTC
From: Keith Kaiser
Topic: 7382 Message: 7384

Roger,

Send me a complete launch announcement for your Field Day event.

http://www.arhab.org/annomail.html

On Jun 25, 2010, at 3:15 PM, Roger Hammond wrote:

> I'll be launching a small 100 gram balloon with an AM Morse Code
> beacon "KC0MWM Balloon" on 433.925 MHz (+/- drift).
>
> I won't be chasing this one, but would appreciate any signal reports.
>
> Launch will be at 1400 CDT from the southern part of Hastings, NE and
> expected touchdown is 45 degrees and 48 miles downrange. About 10 - 15
> miles north of I-80 near Bradshaw, NE.
>
> Happy Field Day
>
> 73 de Roger KC0MWM
>

7385. Re: [GPSL] GFS Data on READY

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 22:30:01 UTC
From: HarryM
Topic: 7328 Message: 7385

Thanks for the info Howard. ARL READY site is where I've always got my data. I hadn't been on their site in over 6 months and their new interface threw me for a loop. I do notice that they did away with the ability to click on the US then a state. There also used to be a sounding screen after clicking on a state that would list several cities.

CU @ GPSL

73 Harry KC5TRB

Sorry to be late in adding the step-by-step. The additional screen as Mark noted was part of the challenge that NSV faced a couple of months ago when ARL made the change. Every time I go through the multiple steps to get my own sounding prediction, I appreciate what Troy has done to make it seem so easy through their website.

Hope to see you at GPSL,
Howard

7386. Re: [GPSL] Field Day

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 23:16:52 UTC
From: Mike Manes
Topic: 7378 Message: 7386

Hi Keith,

Go to: http://www.arrl.org/field-day-locator

Click on "search by state" and select North Carolina in the State(s)
window. There are 52 FD stations in NC this year, but none are specifically
IN Cary - but you could find one near you from the map on that site.

73 de Mike W5VSI

On 6/25/2010 10:16, Keith Kaiser wrote:
> Anyone know of a field day going on near Cary, NC?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7387. Re: [GPSL] Field Day

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-25 23:24:51 UTC
From: Mike Manes
Topic: 7378 Message: 7387

The closest one >registered with ARRL< is W4DW about 15 miles SW of
Raleigh on US 1, near New Hill NC. Not all FD sites are so registered,
however.
73 de Mike W5VSI

On 6/25/2010 10:16, Keith Kaiser wrote:
> Anyone know of a field day going on near Cary, NC?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7388. Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 00:07:41 UTC
From: k6rpt
Topic: 7388 Message: 7388

Anybody use a digital hanging scale for checking free lift?

http://www.americanweigh.com/product_info.php?products_id=1230

-Ron
K6RPT

7389. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 00:26:32 UTC
From: Joe
Topic: 7388 Message: 7389
Attachments: 1 described; binary payloads are missing from this source WARC

Nope, not Us
Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/25/2010 7:07 PM, k6rpt wrote:
> Anybody use a digital hanging scale for checking free lift?
>
> http://www.americanweigh.com/product_info.php?products_id=1230
>
> -Ron
> K6RPT
>
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> Yahoo! Groups Links
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7390. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 00:54:48 UTC
From: L. Paul Verhage
Topic: 7388 Message: 7390

Yep. I don't care for the tare method, I like to see what's happening.
When there's a breeze blowing, we can gauge the lift and the fluctuations.
Plus, you can change your desired lift on the fly and gauge the amount of
error in lift should you accidentally dump etra gas.

You just need to read upside down.

Paul

PS, I suppose you could use a carrabiner to keep the scale upright.

On Fri, Jun 25, 2010 at 7:07 PM, k6rpt <Ron@...> wrote:

> Anybody use a digital hanging scale for checking free lift?
>
> http://www.americanweigh.com/product_info.php?products_id=1230
>
> -Ron
> K6RPT
>
>
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>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

7391. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 01:01:20 UTC
From: HarryM
Topic: 7388 Message: 7391

I use a Rapala I got at Wal-Mart several years ago.
http://www.amazon.com/Rapala-ProGuide-lb-Digital-Scale/dp/B0000AY4L4

They now have one by Berkley for $19.

73 Harry KC5TRB

> Anybody use a digital hanging scale for checking free lift?

7392. If you don☐t like digital hanging scales.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 01:01:19 UTC
From: k6rpt
Topic: 7392 Message: 7392

Yes Paul, upside down.

If you don't like digital hanging scales.

http://www.americanweigh.com/product_info.php?cPath=46&products_id=371

-Ron
K6RPT

7393. T-Shirt for GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 01:02:57 UTC
From: L. Paul Verhage
Topic: 7393 Message: 7393
Attachments: 2 described; binary payloads are missing from this source WARC

Here's the final (?) t-shirt front and back. If this is acceptable, could someone take care of the Zazzle setup? I've not played with Zazzle.

--
Onwards and Upwards,
Paul

7394. Re: [GPSL] If you don’t like digital hanging scale s.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 01:04:48 UTC
From: L. Paul Verhage
Topic: 7392 Message: 7394

I've always use digital scales and have been happy with them (except when
the batteries died on one).

Paul

On Fri, Jun 25, 2010 at 8:01 PM, k6rpt <Ron@...> wrote:

> Yes Paul, upside down.
>
> If you don't like digital hanging scales.
>
> http://www.americanweigh.com/product_info.php?cPath=46&products_id=371
>
> -Ron
> K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>
>

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Onwards and Upwards,
Paul

7395. t-shirt 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 15:34:31 UTC
From: Jerome Doerrie
Topic: 7395 Message: 7395

Paul, thank you for working on the t-shirt. Since this will be seen by the general public we need to avoid anything that is negative in any way. If the "and all I got was this lousy picture" is removed we have a nice shirt with a postive message.

Wearing this whirt with the "lousy picture" message would generate negative responses from farmers when we want access for our recovery. Many would sy, "you have your lousy pictures, not get off my land." The access issue can be difficult. We don't need to complicate the issues by what we wear.

It will be great to see everyone at GPSL.

Jerome Doerrie, Reach For Space

7396. Field day Balloon aloft at 1402 cdt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 19:11:42 UTC
From: Roger Hammond
Topic: 7396 Message: 7396

Sent from my Motorola Droid

7397. Re: [GPSL] Field day Balloon aloft at 1402 cdt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 20:11:16 UTC
From: Mark Garrett
Topic: 7396 Message: 7397

Looks like Bill Brown's attempt to land it at the Huntsville, AL field day site went around a mile east and probably splashed down in Lady Ann lake.
ka9szx

From: Roger Hammond <kc0mwm@gmail.com>
To: GPSL list <GPSL@yahoogroups.com>; KNSP List <KNSP@yahoogroups.com>
Sent: Sat, June 26, 2010 2:11:42 PM
Subject: [GPSL] Field day Balloon aloft at 1402 cdt

Sent from my Motorola Droid

7398. Re: [GPSL] Field day Balloon aloft at 1402 cdt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 20:41:25 UTC
From: Mark Garrett
Topic: 7396 Message: 7398

Confirmed in Lady Ann Lake. 30 to 40 feet from the Western shore. Bill will be trying a fishing line/pole retrieval. Both packages on flight are floating.

Is anyone going to retrieve Rodger's balloon, not too many lakes in Nebraska.

KA9SZX

From: Mark Garrett <ka9szx@...>
To: GPSL@yahoogroups.com
Sent: Sat, June 26, 2010 3:11:16 PM
Subject: Re: [GPSL] Field day Balloon aloft at 1402 cdt

Looks like Bill Brown's attempt to land it at the Huntsville, AL field day site went around a mile east and probably splashed down in Lady Ann lake.
ka9szx

From: Roger Hammond <kc0mwm@gmail. com>
To: GPSL list <GPSL@yahoogroups. com>; KNSP List <KNSP@yahoogroups. com>
Sent: Sat, June 26, 2010 2:11:42 PM
Subject: [GPSL] Field day Balloon aloft at 1402 cdt

Sent from my Motorola Droid

7399. RE: [GPSL] Field day Balloon aloft at 1402 cdt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 20:50:02 UTC
From: Doug, KA0O
Topic: 7396 Message: 7399

Depends on how you define "lake". With all the rain we have had here the past several weeks, it is water, water everywhere in lots of places!

Doug, KA0O

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Garrett
Sent: Saturday, June 26, 2010 3:41 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Field day Balloon aloft at 1402 cdt

Confirmed in Lady Ann Lake. 30 to 40 feet from the Western shore. Bill will be trying a fishing line/pole retrieval. Both packages on flight are floating.

Is anyone going to retrieve Rodger's balloon, not too many lakes in Nebraska.

KA9SZX

From: Mark Garrett <ka9szx@...>
To: GPSL@yahoogroups.com
Sent: Sat, June 26, 2010 3:11:16 PM
Subject: Re: [GPSL] Field day Balloon aloft at 1402 cdt

Looks like Bill Brown's attempt to land it at the Huntsville, AL field day site went around a mile east and probably splashed down in Lady Ann lake.
ka9szx

From: Roger Hammond <kc0mwm@gmail. com>
To: GPSL list <GPSL@yahoogroups. com>; KNSP List <KNSP@yahoogroups. com>
Sent: Sat, June 26, 2010 2:11:42 PM
Subject: [GPSL] Field day Balloon aloft at 1402 cdt

Sent from my Motorola Droid

7400. Re: [GPSL] Field day Balloon aloft at 1402 cdt

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 21:09:35 UTC
From: Mark Garrett
Topic: 7396 Message: 7400

It is the same in Illinois as well.

Bill has recovered the balloon. One of the hams located a Kayak and paddled out to retrieve it.

ka9szx

From: "Doug, KA0O" <ka0o@...>
To: GPSL@yahoogroups.com
Sent: Sat, June 26, 2010 3:50:02 PM
Subject: RE: [GPSL] Field day Balloon aloft at 1402 cdt

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Subject: [GPSL] Field day Balloon
aloft at 1402 cdt

Sent from
my Motorola Droid

7401. Field Day Super Launch?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 21:17:57 UTC
From: L. Paul Verhage
Topic: 7401 Message: 7401

Should we think of today as being the first Super Launch of the season?

--
Onwards and Upwards,
Paul

7402. GPSL Payments

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-26 21:38:18 UTC
From: Zack Clobes
Topic: 7402 Message: 7402

I currently have 24 people pre-payed for the GPSL Symposium on Friday!
Thank you very much. As I've said before, it is not required for you to
pre-pay, but it certainly helps me out with numbers and cash-flow. If you
would still like to pay, you can do so at http://www.custom-ds.com/gpsl2010/.
I will be taking this down in a couple of weeks...

As for gas, I have the following orders paid:

1 K He each: Traveler, ORB, Bobette Doerrie, Glen Gram, and Michael Willet.

1 T He each: Base (2 tanks), Nearsys, Glen Gram

1 K H2 each: Near Space Ventures

We will have a couple of extra bottles on-site in case of emergency, but I
do need all other orders placed and pre-paid within the next two weeks. If
you are unable to pay via credit card, please contact me ASAP for
alternative payment methods.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7403. Re: [GPSL] t-shirt 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 01:39:20 UTC
From: Michael Willett
Topic: 7395 Message: 7403

I disagree completely on the negativity generated by the T-Shirt. In fact, quite the opposite.

The wording is a spin on the tourist T-Shirts that are popular in most tourist destinations. "My [family member] went to [favorite vacation spot] and all I got was this lousy T-shirt" can be had at many tourist destinations.

The wording is an obvious irony which the tourist T's and this T design portray well. The picture is no doubt extremely spectacular as are many vacation spots. How few people in the world can say "I sent a vehicle into near space and my creativity resulted in this [lousy] picture." (Obviously the picture is NOT lousy!)

I personally think the whole approach to the land owner makes or breaks the helpfulness one realizes. On an ARBONET flight, our payload landed in the ranch land where the property owner was a bit crusty. I talked to several residents in the area about our problem locating this package. I was offered a horse by one family to ride to the location, was offered a guide by another family that "knew the woods well", was pointed to the ranch owner by the family with the horse and came across the land owner moving his cattle with his truck. He was quite busy, yet dropped everything to then help us locate one of our ground personnel and the package. On the way back out, he shared stories about the Indian tribes that lived there generations before, showed us antiques that where 100's of years old, and was proud to be a part of the "Near Space" adventure. By talking about the experiments and pictures, we were not only welcomed, but ushered all over the ranch area and found the package. I later followed up with an 8x10 picture from near space with our logo and a big thank you which I personally delivered (over 200 miles from my home). The guy was overwhelmingly happy and could not wait to share the trophy with his buddies at the barber shop.I also delivered pics to the horse owner and the prospective guide. I would have loved to have a T-Shirt like Paul has come up with to talk about the envy I have with the balloon going to space and leaving me behind, and the wonderful data and pictures we retrieve from the payloads. Very few people get to be a part of that. This is a huge selling point.

Personally, I think Paul's design of the T-Shirt is great, and obviously our tourist destination is "Near Space" and I greatly appreciate the irony of the wording on the T on such a great picture.

Please note, it is also not required apparel when retrieving one's near space package. I typically wear a T that states I am a member of the NRA and says "I voted for Smith and Wesson" on the back. It helps break the ice. :)

--Michael
K5NOT

On 6/26/2010 10:34 AM, Jerome Doerrie wrote:
>
> Paul, thank you for working on the t-shirt. Since this will be seen by
> the general public we need to avoid anything that is negative in any
> way. If the "and all I got was this lousy picture" is removed we have
> a nice shirt with a postive message.
>
> Wearing this whirt with the "lousy picture" message would generate
> negative responses from farmers when we want access for our recovery.
> Many would sy, "you have your lousy pictures, not get off my land."
> The access issue can be difficult. We don't need to complicate the
> issues by what we wear.
>
> It will be great to see everyone at GPSL.
>
> Jerome Doerrie, Reach For Space
>
>

7404. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 02:28:21 UTC
From: Mike Manes
Topic: 7388 Message: 7404

EOSS has always used the tare bag method. It's a lot easier to read, and one can judge the fill progress easily just by hefting the bag. Our balloonmeister has created an easily-filled tare bag and set of measured weights in a 1-2-5 sequence - so if we decide we need an extra 2 lb lift, he just tosses in another 2 lb weight. The inertia of the tare bag also damps out fluctuations in lift induced by variable false lift if there's any wind running.
73 de Mike W5VSI

On 6/25/2010 18:54, L. Paul Verhage wrote:
>
>
> Yep. I don't care for the tare method, I like to see what's happening.
> When there's a breeze blowing, we can gauge the lift and the
> fluctuations. Plus, you can change your desired lift on the fly and
> gauge the amount of error in lift should you accidentally dump etra gas.
>
> You just need to read upside down.
>
> Paul
>
> PS, I suppose you could use a carrabiner to keep the scale upright.
>
> On Fri, Jun 25, 2010 at 7:07 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> Anybody use a digital hanging scale for checking free lift?
>
> http://www.americanweigh.com/product_info.php?products_id=1230
>
> -Ron
> K6RPT
>
>
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> ------------------------------------
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> Yahoo! Groups Links
>
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
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>

>
> --
> Onwards and Upwards,
> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7405. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 02:43:15 UTC
From: Mark Conner
Topic: 7388 Message: 7405

I got a fish scale at WalMart years ago, works fine. However, it's usually just breezy enough that I don't trust the numbers I see, and the best readings are after the balloon is tied off anyway. With our setup, undoing it all to add more gas is pretty painful. Others can make either the scale or the tare method work, but I haven't found it to be terribly useful.

We typically go off of LiftWin and the tank gage readings to get an approximate gas volume to be used, then add a little beyond that. I'd rather go 200 fpm fast than slow. If we were really wanting to go to the max possible altitude, then I'd arrange to fill inside a building, take the wind lift out of the equation, and get more precise on the lift readings. Pete Sias had a balance bar setup which appeared to give pretty accurate lift readings while still attached to the fill device.

Re: the t-shirt design, I agree with Michael's post. The shirt won't break the deal - if the landowner is torqued enough to deny access, a "lousy picture" quote on the shirt back wasn't what jinxed it.

73 de Mark N9XTN

On Fri, Jun 25, 2010 at 19:07, k6rpt <Ron@...> wrote:
> Anybody use a digital hanging scale for checking free lift?
>
> http://www.americanweigh.com/product_info.php?products_id=1230
>
> -Ron
> K6RPT
>
>

7406. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 16:19:33 UTC
From: Joe
Topic: 7388 Message: 7406
Attachments: 1 described; binary payloads are missing from this source WARC

exactly the same here,

I'll take a picture of outs later but it even gives a visual of how close it's gettinh fopr when it has about a pound to go it changes the way it's sitting. so you can start your fill and walk away and do other things. and just glance at he balloon every now and then to see how close it's geting. no one needs to be even in the area of the balloon for the first 1/2 or so.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/26/2010 9:28 PM, Mike Manes wrote:
> EOSS has always used the tare bag method. It's a lot easier to read, and one
> can judge the fill progress easily just by hefting the bag. Our balloonmeister
> has created an easily-filled tare bag and set of measured weights in a 1-2-5
> sequence - so if we decide we need an extra 2 lb lift, he just tosses in
> another 2 lb weight. The inertia of the tare bag also damps out fluctuations
> in lift induced by variable false lift if there's any wind running.
> 73 de Mike W5VSI
>
> On 6/25/2010 18:54, L. Paul Verhage wrote:
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>> Yep. I don't care for the tare method, I like to see what's happening.
>> When there's a breeze blowing, we can gauge the lift and the
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>> gauge the amount of error in lift should you accidentally dump etra gas.
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>> You just need to read upside down.
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>> Paul
>>
>> PS, I suppose you could use a carrabiner to keep the scale upright.
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>> On Fri, Jun 25, 2010 at 7:07 PM, k6rpt<Ron@...
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>> Paul
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7407. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 16:26:23 UTC
From: HarryM
Topic: 7388 Message: 7407

SigI was in error when I said I use the digital scale at launch. I use the scale to weigh the water bottle I use for tare. I tried to use the scale once, but as has been mentioned here there is way too much room for error in the wind.

73 Harry KC5TRB

7408. Re: Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 23:42:19 UTC
From: k6rpt
Topic: 7388 Message: 7408

Harry, does the Rapala have a hold so once the weight stabilizes it stops reading or does continue to read out the weight. I'm looking for one that will not stop the weighing process once the weight has stabilized.

I will be filling indoors, so wind won't be a problem. I'm going to use tare weights, digital and analog hanging scales. I think it will be a real benefit to see the scale during the fill so you know how close you are to the desired free lift you want.

-Ron
K6RPT

--- In GPSL@yahoogroups.com, "HarryM" <hhm_74115@...> wrote:
>
> SigI was in error when I said I use the digital scale
> at launch. I use the scale to weigh the water bottle
> I use for tare. I tried to use the scale once, but as
> has been mentioned here there is way too much room
> for error in the wind.
>
> 73 Harry KC5TRB
>

7409. Re: [GPSL] Re: Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-27 23:56:27 UTC
From: HarryM
Topic: 7388 Message: 7409

Ron, the Rapala does not HOLD, it continues to read out.

I have use a one gallon milk jug pre-weighed to the desired weight for the amount of lift that I want. I placard the jug for that desired lift and for optional lift in case I decide to eliminate one of the payloads or I want more lift. I always carry extra water jugs for drinking and washing on the recovery so I can add to the lift jug or just pour some out. I always carry the scale in my flight box in case I need to re-weigh the jug at launch.

73 Harry

Harry, does the Rapala have a hold so once the weight stabilizes it stops reading or does continue to read out the weight. I'm looking for one that will not stop the weighing process once the weight has stabilized.

7410. SABRE-10 complete with lesson learned.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 01:47:14 UTC
From: Bruce Coates
Topic: 7410 Message: 7410
Attachments: 1 described; binary payloads are missing from this source WARC

Hi

When all was said and done, the flight of SABRE-10 should be considered a success but we learned a valuable lesson today.

The day started out poor with heavy overcast and rain. As the launch time approached the skies thankfully cleared but the wind also began to pick up. As we made our usual preparations, things started to go wrong. We unable to do much of our regular prep work the day before because one member of our group was down the flu. As we began to set up, I preformed the required weigh-in and tallied up the ballast weight. Gus started in filling the balloon and I began rigging the payload line. When the balloon was about 30% filled, Gus called me over to show me the dime size hole in the side of the balloon. Unfortunately I hadn't brought a spare with me so I had to drive back home and pick one up. Meanwhile we the covered the hole with duct tape to stem the leak. 15 minutes later I was back with a spare, an extra spare and a pipe. I had always wondered if it would be possible to transfer the Helium from one balloon to another. Well, it's possible but it's so slow, it's completely impractical. We took our lumps, sacrificed the old balloon and began to fill the new one. Our balloons are military surplus ones and we have to remove an extra skirt prior to flight. I now had to perform this in the field, something I'd never done before.

Now that filling was underway, I returned to rigging the payload line. As we were nearly full, Gus checked the lift with the ballast. As he released his grip, the balloon neck popped off the fill valve and balloon shot skyward. Thankfully our safety line caught it and we pulled it back down but not before losing even more Helium. Again we put more Helium back in and prepared to check the lift again. Now we realized that the ballast jug had been kicked over and we lost about 300 grams of water. Without accurate ballast, we estimated high and over filled a bit just to be safe. Gus pulled the stopper to close the balloon neck only to have the string pull out of the stopper, possibly leaving a hole for the Helium to leak out so we also manually sealed the neck.

Just as we were ready to launch Gus called the local airport tower and they told us we would have to wait for nearby traffic. If you recall, I had mentioned that the wind was picking up. After about 4 minutes we were cleared. As we release our launch line, the person holding the stationary end let go as well so now we had a rope in the rigging that we didn't need. Thankfully was still had control of the payload so we pulled it back just enough to pull the rope free. After a quick check with everyone I let go of the bottom package and the balloon finally lifted off. This was not the end of our misfortune.

Gord had spent months working on a payload stabilization system based on the UAV development module from Sparkfun Electronics. It uses a gyro to measure the rotation and moves a pair of airfoils to counteract the rotation. The airfoils were designed to break during landing or other impact during post-burst. What we hadn't anticipated was the force of the wind at liftoff combined with our generous 1100 fpm ascent rate. At about 100 feet, the first wing broke off and fluttered to the ground like and autumn leaf. The rest of the payload disappeared rapidly into the blue.

Both our VE5AA-11 and VE5AA-12 trackers seemed to be working flawlessly so we took a bit of time to watch some of the live ATV from the balloon. After a few minutes we hit the highway to rendezvous at the predicted landing site. Half way there, we were disappointed to see the VE5AA-11 beacon stop completely. Undeterred, we arrived and the rendezvous site and shared some Eccles cakes. I highly recommend them.

As the balloon descended we were stuck by our final piece of bad luck. Gord, who can usually spot the balloon or parachute at just about any altitude by merely glancing in its general direction was unable to spot anything despite scanning the skies with binoculars and a spotting scope.

Once the balloon landed, a short drive got us to within range of the beacon and we had a precise fix. We spotted it on the far shore of a small lake, no more than 200 metres from the edge of the water. We were very glad that our bad luck had finally run out. We drove around the end of the lake and walked about 500 metres to retrieve everything intact. In fact the second airfoil had survived everything and only broken off on impact, just as planned.

A bit more bad luck had already befallen us but we didn't know it until we inspected the SD cards from the cameras and found that the up looking video camera failed to record anything. The side looking one was a completely different story. It clearly showed that even one airfoil was able to easily control the spin of the payload. In fact it was so effective, it caused the spin to turn into an oscillation which caused the payload to repeatedly spin left then right about 10 degrees. It was clear that the concept would work very well as long as we could alter the micro code to dampen the reaction a bit. It worked up to 10,000 feet were a bug in my camera controller code switched the video camera to power saving mode.

Now, what in the world could have caused such a sting of horrible luck? Well, this is the first time that we forgot to put our mascot into the payload package. Our mascot is a small black plastic bull that adorns the neck of a Spanish red wine that VE5LEE and VE5BNC particularly enjoy. Did that really cause all of this? Are these little fellas so powerful that they can ward off the terrible things that can befall balloonatics? You'll have to decide for yourself.

73, Bruce

VE5BNC

7411. Re: [Ballooning] Re: Dayton Hamvention balloon has been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 03:03:25 UTC
From: Mike Manes
Topic: 7411 Message: 7411

Hi Tony,

A latex balloon bursts at roughly a predictable gage pressure (internal to ambient), regardless of ambient pressure. And I'd think that the low density of air at 90K' would ameliorate the intensity of the shock wave relative to lower altitudes. A number of folks have recorded real-time video of bursts, and it doesn't appear to have any "blast" impact on the parachute or any other part of the payload string. What does happen is that shards of latex are driven downward, often below the parachute skirt, and if they're allowed to reside until PBC develops at very high true airspeeds, 'chute fouling can ensue. Now, those who have recorded audio during burst have heard a pretty loud report, but not a deafening one.

You're correct about a persistent pursuit an altitude record. Quite often, the bulk of the payload string comprises student-built experiments which just expect to get into near space. Going for an altitude record, especially now that the ARHAB record is over 127K', requires maximum burst volume and minimum neck loading, i.e., a 3000 gm or larger latex and no more than a very light APRS beacon to register GPS elevation plus a minimal parachute, if any at all.

But, it's nice to become a record-holder from time to time :=), and there are quite a few classes of ARHAB records to go for.

Bill Brown has flown several latex "leakers", yielding some pretty long-duration flights. But that approach might get one upwards of 36 hours of flight time - once enough gas has vented and night falls, the balloon will inevitably descend to the deck before the next sunrise. The latex bags we use also deteriorate pretty rapidly in the intense UV at altitude. The ARHAB DX record use a plastic zero-pressure bag with controlled ballast dump to compensate for lift lost during overnight cooling.

Another group has fitted a latex with a controllable dump valve in the neck, which opens before the bag bursts and yields a near-constant descent rate to the deck, with the bag still erect on landing. The downside of landing with an intact balloon crops up if there's a good bit of surface wind, which can beat up the bottom of the payload string pretty severely, even to the extent that important bits break off, thus reducing neck load and allowing the balloon to ascend again. But if the landing site is a wide open space and winds are calm, recovery can be a real sweet experience.

Yes, cutting away before burst has been done, and it's a swell way to mitigate PBC by keeping the shard load off the 'chute apex. Some experiments may have upper limits on altitude, and from time to time, a weak fill or a leaker may make an early cutdown more desirable than hundreds of miles downrange to the recovery site. Another is to prevent landing in an undesirable site, like an airport, deep canyon or populated area.

BTW, >every< flight is an in situ experiment, and there's been some pretty fancy data collected. But the PBC dynamics are somewhat (understatement) complex - kinda like predicting the signal strength of a ZS6 station on 30m at your antenna feed point.

Hey, what's keeping you from diving into the balloonacy pool? The water's fine, and no one expects you to conduct a flawless flight out of the box. EOSS has over 150 flights under its belt, and almost one of them was actually perfect :=). Ma Nature and Murphy are pretty tough opponents. If it were routine, I'd take up a more exciting hobby, like stamp collecting.

BTW, I'm copying the GPSL reflector, which has a wider following than ANSR's Ballooning yahoo group.

73 de Mike W5VSI
CTO EOSS

On 6/27/2010 00:39, tony dinkel wrote:
>
>
> Gentlemen,
>
> Speaking as a total lay person to the art of ballooning, I would like to
> throw a few ideas out.
>
> First, the burst of a 30 foot balloon in the near vacuum at 90,000 feet
> or above has to be a heck of a chaotic event just by itself. The sudden
> release of a fairly large volume of gas could result in an incredible
> downward force, causing the payload inversion effect.
>
> I don't know that the burst of a small party balloon at sea level would
> be a good predictor of effects of burst of a much larger body in a
> rarified atmosphere. Much less what forces would it exert on string
> connected to a bunch of boxes connected to it. The force vectors have to
> be crazy for a few fractions of a second.
>
> Do you have to go for an altitude record on every single flight? What is
> more important, getting up as high as you can get, exposing your
> payloads to the near space environment for as long as you can or am I
> taking the wrong direction on this?
>
> Second, have you considered a slow vent or bleed off of helium as burst
> altitude is approached? This could improve loiter, drift, flight time,
> exposure time, etc. Then could you induce a burst in the vicinity of the
> attach point with a small pyro or electrical heater device? I realize
> that electrical power for a heater may not be available and that pyros
> may not be legal for your class of flight also.
>
> Third, after your flight objectives have been met, could you simply cut
> the balloon loose, to burst away from the vicinity of the payload train?
> I realize that differences in drag coefficients (even near 100k feet) of
> the different payload enclosures could cause them to fall at different

> rates or tumble, at least until the drag of the parachute becomes the
> largest contributer to drag.
>
> I seems to me that a simple release of the balloon at a preset altitude
> would be a good start to limiting forces applied to the payload train.
> Just start a controlled descent prior to burst. Escape the chaos perhaps?
>
> Short of high speed computational fluid dynamics analysis or renting a
> big vacuum chamber, a little experimentation /in situ/ could be in
> order. After all, this is all a big experimental project.
>
> Again, I have never participated in a balloon flight, designed a
> payload, much less a complete system, so my experience base is zero. I
> have, however, followed this list and your flights for several years so
> I have the benefit of learning from your experiences. Just trying to
> help. And looking forward to participating in a flight with my 12 year
> old as soon as I can.
>
> tony dinkel
> wb6mie
>
>
> > To: SportAV8R@...; rick@...
> > CC: Ballooning@yahoogroups.com
> > From: mrmanes@...
> > Date: Sat, 26 Jun 2010 21:54:04 -0600
> > Subject: Re: [Ballooning] Re: Dayton Hamvention balloon has been
> recovered
> > >
> > > Hi Bill,
> > >
> > > I gave a pitch on PBC and its (empirical) causes and cures at GPSL a
> > > few years ago. I'll see if the EOSS webmaster, Rick N0KKZ has the .ppt
> > > and can post it somewhere on www.eoss.org.
> > >
> > > Rick?
> > >
> > > In a nutshell, it has a lot to do with parachute oscillation and
> > >
>
> ---
> The New Busy think 9 to 5 is a cute idea. Combine multiple calendars
> with Hotmail. Get busy.
> <http://www.windowslive.com/campaign/thenewbusy?tile=multicalendar&ocid=PID28326::T:WLMT
AGL:ON:WL:en-US:WM_HMP:042010_5>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7412. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 03:58:32 UTC
From: Mike Manes
Topic: 7388 Message: 7412

EOSS uses a 50 lb FS antique brass spring scale to verify the
tare weight bag. And yeah, one need not have an eye on a meter.
We also double-check the fill by noting the tank pressure before and
during the fill. At constant temp, tank pressure drops linearly with
remaining gas volume.
73 de Mike W5VSI

On 6/27/2010 10:26, HarryM wrote:
>
>
> I was in error when I said I use the digital scale
> at launch. I use the scale to weigh the water bottle
> I use for tare. I tried to use the scale once, but as
> has been mentioned here there is way too much room
> for error in the wind.
> 73 Harry KC5TRB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7413. Re: [Balloon_Sked] SABRE-10 complete with lesson learned. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 04:12:12 UTC
From: Mike Manes
Topic: 7410 Message: 7413

Huh. Just wait until you have a >really< bad day!

On 6/27/2010 19:47, Bruce Coates wrote:
> [Attachment(s) <#TopText> from Bruce Coates included below]
>
> Hi
>
> When all was said and done, the flight of SABRE-10 should be considered
> a success but we learned a valuable lesson today.
>
> The day started out poor with heavy overcast and rain. As the launch
> time approached the skies thankfully cleared but the wind also began to
> pick up. As we made our usual preparations, things started to go wrong.
> We unable to do much of our regular prep work the day before because one
> member of our group was down the flu. As we began to set up, I preformed
> the required weigh-in and tallied up the ballast weight. Gus started in
> filling the balloon and I began rigging the payload line. When the
> balloon was about 30% filled, Gus called me over to show me the dime
> size hole in the side of the balloon. Unfortunately I hadn't brought a
> spare with me so I had to drive back home and pick one up. Meanwhile we
> the covered the hole with duct tape to stem the leak. 15 minutes later I
> was back with a spare, an extra spare and a pipe. I had always wondered
> if it would be possible to transfer the Helium from one balloon to
> another. Well, it's possible but it's so slow, it's completely
> impractical. We took our lumps, sacrificed the old balloon and began to
> fill the new one. Our balloons are military surplus ones and we have to
> remove an extra skirt prior to flight. I now had to perform this in the
> field, something I'd never done before.
>
> Now that filling was underway, I returned to rigging the payload line.
> As we were nearly full, Gus checked the lift with the ballast. As he
> released his grip, the balloon neck popped off the fill valve and
> balloon shot skyward. Thankfully our safety line caught it and we pulled
> it back down but not before losing even more Helium. Again we put more
> Helium back in and prepared to check the lift again. Now we realized
> that the ballast jug had been kicked over and we lost about 300 grams of
> water. Without accurate ballast, we estimated high and over filled a bit
> just to be safe. Gus pulled the stopper to close the balloon neck only
> to have the string pull out of the stopper, possibly leaving a hole for
> the Helium to leak out so we also manually sealed the neck.
>
> Just as we were ready to launch Gus called the local airport tower and
> they told us we would have to wait for nearby traffic. If you recall, I
> had mentioned that the wind was picking up. After about 4 minutes we

> were cleared. As we release our launch line, the person holding the
> stationary end let go as well so now we had a rope in the rigging that
> we didn't need. Thankfully was still had control of the payload so we
> pulled it back just enough to pull the rope free. After a quick check
> with everyone I let go of the bottom package and the balloon finally
> lifted off. This was not the end of our misfortune.
>
> Gord had spent months working on a payload stabilization system based on
> the UAV development module from Sparkfun Electronics. It uses a gyro to
> measure the rotation and moves a pair of airfoils to counteract the
> rotation. The airfoils were designed to break during landing or other
> impact during post-burst. What we hadn't anticipated was the force of
> the wind at liftoff combined with our generous 1100 fpm ascent rate. At
> about 100 feet, the first wing broke off and fluttered to the ground
> like and autumn leaf. The rest of the payload disappeared rapidly into
> the blue.
>
> Both our VE5AA-11 and VE5AA-12 trackers seemed to be working flawlessly
> so we took a bit of time to watch some of the live ATV from the balloon.
> After a few minutes we hit the highway to rendezvous at the predicted
> landing site. Half way there, we were disappointed to see the VE5AA-11
> beacon stop completely. Undeterred, we arrived and the rendezvous site
> and shared some Eccles cakes. I highly recommend them.
>
> As the balloon descended we were stuck by our final piece of bad luck.
> Gord, who can usually spot the balloon or parachute at just about any
> altitude by merely glancing in its general direction was unable to spot
> anything despite scanning the skies with binoculars and a spotting scope.
>
> Once the balloon landed, a short drive got us to within range of the
> beacon and we had a precise fix. We spotted it on the far shore of a
> small lake, no more than 200 metres from the edge of the water. We were
> very glad that our bad luck had finally run out. We drove around the end
> of the lake and walked about 500 metres to retrieve everything intact.
> In fact the second airfoil had survived everything and only broken off
> on impact, just as planned.
>
> A bit more bad luck had already befallen us but we didn't know it until
> we inspected the SD cards from the cameras and found that the up looking
> video camera failed to record anything. The side looking one was a
> completely different story. It clearly showed that even one airfoil was
> able to easily control the spin of the payload. In fact it was so
> effective, it caused the spin to turn into an oscillation which caused
> the payload to repeatedly spin left then right about 10 degrees. It was
> clear that the concept would work very well as long as we could alter
> the micro code to dampen the reaction a bit. It worked up to 10,000 feet
> were a bug in my camera controller code switched the video camera to
> power saving mode.
>
> Now, what in the world could have caused such a sting of horrible luck?

> Well, this is the first time that we forgot to put our mascot into the
> payload package. Our mascot is a small black plastic bull that adorns
> the neck of a Spanish red wine that VE5LEE and VE5BNC particularly
> enjoy. Did that really cause all of this? Are these little fellas so
> powerful that they can ward off the terrible things that can befall
> balloonatics? You'll have to decide for yourself.
>
> 73, Bruce
>
> VE5BNC
>
>
> Attachment(s) from Bruce Coates
>
> 1 of 1 Photo(s)
>
> SABRE.jpg
> <http://groups.yahoo.com/group/Balloon_Sked/attachments/folder/1853093110/item/887853284
/view>
> SABRE.jpg
> <http://groups.yahoo.com/group/Balloon_Sked/attachments/folder/1853093110/item/887853284
/view>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7414. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 15:44:12 UTC
From: Joe
Topic: 7388 Message: 7414
Attachments: 1 described; binary payloads are missing from this source WARC

so,

what is the average cubic footage of various tanks to get the "Base" volume?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/27/2010 10:58 PM, Mike Manes wrote:
> EOSS uses a 50 lb FS antique brass spring scale to verify the
> tare weight bag. And yeah, one need not have an eye on a meter.
> We also double-check the fill by noting the tank pressure before and
> during the fill. At constant temp, tank pressure drops linearly with
> remaining gas volume.
> 73 de Mike W5VSI
>
> On 6/27/2010 10:26, HarryM wrote:
>
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>> I was in error when I said I use the digital scale
>> at launch. I use the scale to weigh the water bottle
>> I use for tare. I tried to use the scale once, but as
>> has been mentioned here there is way too much room
>> for error in the wind.
>> 73 Harry KC5TRB
>>
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>>
>>
>>
>

7415. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 15:50:14 UTC
From: Roger Hammond
Topic: 7388 Message: 7415
Attachments: 1 described; binary payloads are missing from this source WARC

According to our local gas dealer...

H or K size cylinder = 219 cuft
T size cylinder = 291 cuft

Rog KC0MWM
CNNSP

On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...> wrote:

> so,
>
> what is the average cubic footage of various tanks to get the "Base"
> volume?
>
> Joe
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/27/2010 10:58 PM, Mike Manes wrote:
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> EOSS uses a 50 lb FS antique brass spring scale to verify the
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> On 6/27/2010 10:26, HarryM wrote:
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> has been mentioned here there is way too much room
> for error in the wind.
> 73 Harry KC5TRB
>
>
>
>
>

>
>

7416. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 16:04:35 UTC
From: Joe
Topic: 7388 Message: 7416
Attachments: 2 described; binary payloads are missing from this source WARC

See that is at what pressure tho? there for sure isn't the volume of the tank true?

And granted where we buy our H2 it's cheap,! we still can get a full bottle for like 15 bucks. but the exact amount is very wide variances of pressure when we hook up to it. so of course then the cubic footage is varying also. But at those prices I'm not complaining thats for sure.

Most flights we get almost two flights per tank. and sometimes we actually do get two flights if they are simple flights.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/28/2010 10:50 AM, Roger Hammond wrote:
>
>
> According to our local gas dealer...
>
> H or K size cylinder = 219 cuft
> T size cylinder = 291 cuft
>
> Rog KC0MWM
> CNNSP
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> On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> so,
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> what is the average cubic footage of various tanks to get the
> "Base" volume?
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> Joe
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>> We also double-check the fill by noting the tank pressure before and
>> during the fill. At constant temp, tank pressure drops linearly with
>> remaining gas volume.
>> 73 de Mike W5VSI
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>> On 6/27/2010 10:26, HarryM wrote:
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>>> at launch. I use the scale to weigh the water bottle
>>> I use for tare. I tried to use the scale once, but as
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>>> for error in the wind.
>>> 73 Harry KC5TRB
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>

7417. Volume of gas in a cylinder

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 19:15:55 UTC
From: BASE
Topic: 7388 Message: 7417
Attachments: 2 described; binary payloads are missing from this source WARC

Roger gave the industry standard values for the number of cubic feet in a filled cylinder. Here's where that comes from. Using the ideal gas law (PV = nRT), and recognizing that the temperature is essentially constant on the absolute temperature scales, the approximate number of cubic feet of gas that a tank holds is found by dividing the gauge pressure in pounds per square inch by the pressure of an atmosphere (14.7 psi) and multiplying by the volume.
For example, given that the T cylinder internal volume is about 1.76 cubic feet and the K cylinder is about 1.55 cubic feet, if the regulator reads 2400 psi on the T cylinder valve that corresponds to a pressure of 170 atmospheres. We can calculate that the volume of the gas at 1 atmosphere is approximately 290 cubic feet. When the regulator input pressure drops to 1470 psi, there would be 176 cubic feet of gas in the cylinder and hopefully 114 cubic feet of gas in the balloon.
Howard

--- On Mon, 6/28/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Digital hanging scale for checking free lift?
To: GPSL@yahoogroups.com
Cc: "Roger Hammond" <kc0mwm@...>
Date: Monday, June 28, 2010, 12:04 PM

See that is at what pressure tho? there for sure isn't the volume of
the tank true?

And granted where we buy our H2 it's cheap,! we still can get a full
bottle for like 15 bucks. but the exact amount is very wide variances
of pressure when we hook up to it. so of course then the cubic footage
is varying also. But at those prices I'm not complaining thats for
sure.

Most flights we get almost two flights per tank. and sometimes we
actually do get two flights if they are simple flights.

Joe WB9SBD

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 6/28/2010 10:50 AM, Roger Hammond wrote:

According to our local gas dealer...

H or K size cylinder = 219 cuft

T size cylinder = 291 cuft

Rog KC0MWM

CNNSP

On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...>
wrote:

so,

what is the average cubic footage of various tanks to get the "Base"
volume?

Joe

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On 6/27/2010 10:58 PM, Mike Manes wrote:

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tare weight bag. And yeah, one need not have an eye on a meter.
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during the fill. At constant temp, tank pressure drops linearly with
remaining gas volume.
73 de Mike W5VSI

On 6/27/2010 10:26, HarryM wrote:

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at launch. I use the scale to weigh the water bottle
I use for tare. I tried to use the scale once, but as
has been mentioned here there is way too much room
for error in the wind.
73 Harry KC5TRB

7418. Re: [GPSL] Volume of gas in a cylinder

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 19:54:05 UTC
From: Roger Hammond
Topic: 7388 Message: 7418
Attachments: 2 described; binary payloads are missing from this source WARC

Howard,

Thank you for the detailed information.

Rog KC0MWM

On Mon, Jun 28, 2010 at 2:15 PM, BASE <basedepauw@...> wrote:

> Roger gave the industry standard values for the number of cubic feet in a
> filled cylinder.
>
> Here's where that comes from. Using the ideal gas law (PV = nRT), and
> recognizing that the temperature is essentially constant on the absolute
> temperature scales, the approximate number of cubic feet of gas that a tank
> holds is found by dividing the gauge pressure in pounds per square inch by
> the pressure of an atmosphere (14.7 psi) and multiplying by the volume.
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> For example, given that the T cylinder internal volume is about 1.76 cubic
> feet and the K cylinder is about 1.55 cubic feet, if the regulator reads
> 2400 psi on the T cylinder valve that corresponds to a pressure of 170
> atmospheres. We can calculate that the volume of the gas at 1 atmosphere is
> approximately 290 cubic feet. When the regulator input pressure drops to
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> 114 cubic feet of gas in the balloon.
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> Howard
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> --- On *Mon, 6/28/10, Joe <nss@...>* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Digital hanging scale for checking free lift?
> To: GPSL@yahoogroups.com
> Cc: "Roger Hammond" <kc0mwm@...>
> Date: Monday, June 28, 2010, 12:04 PM
>
> See that is at what pressure tho? there for sure isn't the volume of the
> tank true?
>
> And granted where we buy our H2 it's cheap,! we still can get a full
> bottle for like 15 bucks. but the exact amount is very wide variances of
> pressure when we hook up to it. so of course then the cubic footage is
> varying also. But at those prices I'm not complaining thats for sure.

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> Most flights we get almost two flights per tank. and sometimes we actually
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>
> On 6/28/2010 10:50 AM, Roger Hammond wrote:
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> H or K size cylinder = 219 cuft
> T size cylinder = 291 cuft
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> Rog KC0MWM
> CNNSP
>
>
>
>
>
> On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...<http://mc/compose?to=nss@...>
> > wrote:
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>> http://www.idle-tyme.com
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>> On 6/27/2010 10:58 PM, Mike Manes wrote:
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>> 73 de Mike W5VSI
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>> On 6/27/2010 10:26, HarryM wrote:
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>> 73 Harry KC5TRB
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>

7419. Re: relative price of hydrogen gas for lifting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 20:27:23 UTC
From: n1ltv
Topic: 7388 Message: 7419

> And granted where we buy our H2 it's cheap,! we still can get
> a full bottle for like 15 bucks. but the exact amount is very
> wide variances of pressure when we hook up to it.

Joe,

Just how wide a variation? **Numbers** please, ballpark numbers
if you have to.

Do you know what size when you say "full bottle?" By that,
I mean K or T size letter code, or cubic feet of tank itself,
not the cubic feet of compressed gas contained within.

Do you have any idea why your hydrogen so cheap compared to Zack's price at GPSL 2010?:

Hydrogen K Tank $42
A K-sized tank of hydrogen gas, including tax and environmental fee, delivered and
returned.

(Helium K Tank $80)

I sure wish you could sometime get a quote from your supplier
about a K tank of helium. That way it would be more of a
meaningful price comparison. Maybe you've got a gas supplier
with a heart of gold. :)

Hank

7420. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 20:52:02 UTC
From: Mike Manes
Topic: 7388 Message: 7420

I think that the CGA standards require that tanks of a given size and gas
contain a precise number of standard cubic feet of gas. That means that
if the full tank temperature is below 20C, then the pressure will be lower,
and vice versa.

73 de Mike W5VSI

On 6/28/2010 10:04, Joe wrote:
> See that is at what pressure tho? there for sure isn't the volume of
> the tank true?
>
> And granted where we buy our H2 it's cheap,! we still can get a full
> bottle for like 15 bucks. but the exact amount is very wide variances of
> pressure when we hook up to it. so of course then the cubic footage is
> varying also. But at those prices I'm not complaining thats for sure.
>
> Most flights we get almost two flights per tank. and sometimes we
> actually do get two flights if they are simple flights.
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> Joe WB9SBD
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> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/28/2010 10:50 AM, Roger Hammond wrote:
>> According to our local gas dealer...
>>
>> H or K size cylinder = 219 cuft
>> T size cylinder = 291 cuft
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>> On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7421. Re: [GPSL] Re: relative price of hydrogen gas for lifting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 21:18:54 UTC
From: Joe
Topic: 7388 Message: 7421
Attachments: 1 described; binary payloads are missing from this source WARC

I stopped even looking anymore at the gauge when we first open the bottles. it's been years since we even thought about it at all.

I'll try to find out who supplies them with their gas. Where I get it from is NOT a "Gas" supplier. We were ripped off BIG time price wise when we went that route.

We get ours from a local farm supply store. that they have welding supplies. right next to the cattle prods and bull castrators etc. It's about 2 miles from my house and i just drive up and tell them I'm getting a tank and they open the door and we load it up.

No tank rentals. deposits, nothing, Matter of fact i have one tank i still need to take back, we just keep forgetting about it. it's been in my yard for over what 5 years? and they havent said a word about it.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/28/2010 3:27 PM, n1ltv wrote:
>> And granted where we buy our H2 it's cheap,! we still can get
>> a full bottle for like 15 bucks. but the exact amount is very
>> wide variances of pressure when we hook up to it.
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> Joe,
>
> Just how wide a variation? **Numbers** please, ballpark numbers
> if you have to.
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> Do you know what size when you say "full bottle?" By that,
> I mean K or T size letter code, or cubic feet of tank itself,
> not the cubic feet of compressed gas contained within.
>
> Do you have any idea why your hydrogen so cheap compared to Zack's price at GPSL 2010?:
>
> Hydrogen K Tank $42
> A K-sized tank of hydrogen gas, including tax and environmental fee, delivered and returned.
>
> (Helium K Tank $80)
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> I sure wish you could sometime get a quote from your supplier
> about a K tank of helium. That way it would be more of a
> meaningful price comparison. Maybe you've got a gas supplier
> with a heart of gold. :)
>
> Hank
>
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> ------------------------------------
>
> Yahoo! Groups Links
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7422. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 21:20:59 UTC
From: Joe
Topic: 7388 Message: 7422
Attachments: 1 described; binary payloads are missing from this source WARC

How much pressure difference does anyone think there would be say from
20 below zero, to wow say 150 above zero F?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/28/2010 3:52 PM, Mike Manes wrote:
> I think that the CGA standards require that tanks of a given size and gas
> contain a precise number of standard cubic feet of gas. That means that
> if the full tank temperature is below 20C, then the pressure will be lower,
> and vice versa.
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> 73 de Mike W5VSI
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> On 6/28/2010 10:04, Joe wrote:
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>>> On 6/27/2010 10:58 PM, Mike Manes wrote:
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>>>> EOSS uses a 50 lb FS antique brass spring scale to verify the
>>>> tare weight bag. And yeah, one need not have an eye on a meter.
>>>> We also double-check the fill by noting the tank pressure before and
>>>> during the fill. At constant temp, tank pressure drops linearly with
>>>> remaining gas volume.
>>>> 73 de Mike W5VSI
>>>>
>>>> On 6/27/2010 10:26, HarryM wrote:
>>>>
>>>>
>>>>> I was in error when I said I use the digital scale
>>>>> at launch. I use the scale to weigh the water bottle
>>>>> I use for tare. I tried to use the scale once, but as
>>>>> has been mentioned here there is way too much room
>>>>> for error in the wind.
>>>>> 73 Harry KC5TRB
>>>>>
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7423. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 21:47:13 UTC
From: BASE
Topic: 7388 Message: 7423
Attachments: 1 described; binary payloads are missing from this source WARC

-20 degrees Fahrenheit is 244 Kelvin150 degrees Fahrenheit is 339 Kelvin
The ratio of these temperatures is 1.39. The volume of the tank will be essentially constant making the pressure at 150 degrees Fahrenheit about 39% higher than at -20 degrees Fahrenheit. If the regulator pressure gauge read 2000 psi at -20 deg F it would read just under 2800 psi at 150 deg.
Howard
--- On Mon, 6/28/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Digital hanging scale for checking free lift?
To: GPSL@yahoogroups.com
Cc: "Mike Manes" <mrmanes@...>, "Roger Hammond" <kc0mwm@...>
Date: Monday, June 28, 2010, 5:20 PM

How much pressure difference does anyone think there would be say from
20 below zero, to wow say 150 above zero F?

Joe

The Original Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 6/28/2010 3:52 PM, Mike Manes wrote:

I think that the CGA standards require that tanks of a given size and gas
contain a precise number of standard cubic feet of gas. That means that
if the full tank temperature is below 20C, then the pressure will be lower,
and vice versa.

73 de Mike W5VSI

On 6/28/2010 10:04, Joe wrote:

See that is at what pressure tho? there for sure isn't the volume of
the tank true?

And granted where we buy our H2 it's cheap,! we still can get a full
bottle for like 15 bucks. but the exact amount is very wide variances of
pressure when we hook up to it. so of course then the cubic footage is
varying also. But at those prices I'm not complaining thats for sure.

Most flights we get almost two flights per tank. and sometimes we
actually do get two flights if they are simple flights.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/28/2010 10:50 AM, Roger Hammond wrote:

According to our local gas dealer...

H or K size cylinder = 219 cuft
T size cylinder = 291 cuft

Rog KC0MWM
CNNSP

On Mon, Jun 28, 2010 at 10:44 AM, Joe <nss@...
<mailto:nss@...>> wrote:

so,

what is the average cubic footage of various tanks to get the
"Base" volume?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/27/2010 10:58 PM, Mike Manes wrote:

EOSS uses a 50 lb FS antique brass spring scale to verify the
tare weight bag. And yeah, one need not have an eye on a meter.
We also double-check the fill by noting the tank pressure before and
during the fill. At constant temp, tank pressure drops linearly with
remaining gas volume.
73 de Mike W5VSI

On 6/27/2010 10:26, HarryM wrote:

I was in error when I said I use the digital scale
at launch. I use the scale to weigh the water bottle
I use for tare. I tried to use the scale once, but as
has been mentioned here there is way too much room
for error in the wind.
73 Harry KC5TRB

7424. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-28 21:55:00 UTC
From: Joe
Topic: 7388 Message: 7424
Attachments: 2 described; binary payloads are missing from this source WARC

That could be the amount of swing we have noticed. going from a deep in
the winter launch vs a hot summer day launch with the tank sitting out
in the sun,,,

could be!

Thanks!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/28/2010 4:47 PM, BASE wrote:
> -20 degrees Fahrenheit is 244 Kelvin
> 150 degrees Fahrenheit is 339 Kelvin
>
> The ratio of these temperatures is 1.39. The volume of the tank will
> be essentially constant making the pressure at 150 degrees Fahrenheit
> about 39% higher than at -20 degrees Fahrenheit. If the regulator
> pressure gauge read 2000 psi at -20 deg F it would read just under
> 2800 psi at 150 deg.
>
> Howard
>
> --- On *Mon, 6/28/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Digital hanging scale for checking free lift?
> To: GPSL@yahoogroups.com
> Cc: "Mike Manes" <mrmanes@...>, "Roger Hammond"
> <kc0mwm@...>
> Date: Monday, June 28, 2010, 5:20 PM
>
> How much pressure difference does anyone think there would be say
> from 20 below zero, to wow say 150 above zero F?
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> Joe
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> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com

> http://www.idle-tyme.com
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>> and vice versa.
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>> 73 de Mike W5VSI
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>> On 6/28/2010 10:04, Joe wrote:
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>>> See that is at what pressure tho? there for sure isn't the volume of
>>> the tank true?
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>>> And granted where we buy our H2 it's cheap,! we still can get a full
>>> bottle for like 15 bucks. but the exact amount is very wide variances of
>>> pressure when we hook up to it. so of course then the cubic footage is
>>> varying also. But at those prices I'm not complaining thats for sure.
>>>
>>> Most flights we get almost two flights per tank. and sometimes we
>>> actually do get two flights if they are simple flights.
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>>> Joe WB9SBD
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>>> The Original Rolling Ball Clock
>>> Idle Tyme
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>>> On 6/28/2010 10:50 AM, Roger Hammond wrote:
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>>>> H or K size cylinder = 219 cuft
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>>>> On Mon, Jun 28, 2010 at 10:44 AM, Joe<nss@...
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>>>> "Base" volume?
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>>>> Joe
>>>>
>>>>
>>>> The Original Rolling Ball Clock
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>>>>>> 73 Harry KC5TRB
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7425. Re: [GPSL] Digital hanging scale for checking free lift?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 00:36:59 UTC
From: Mike Manes
Topic: 7388 Message: 7425

Using the ideal gas law, PV=nRT, for fixed V, n & R:

-20F is 244.3 Kelvin, and +150F is 338.7K. So if the tank reads
2400 PSI at 70F (294.3K), then it would read 2400 x (244.3/294.3)
= 1992 PSI, and at 150F, it'd be 2400 x (338.7/294.3) = 2762 PSI,
for a pressure difference of 770 PSI. Certainly noticeable!

Note that one must work T in absolute terms:
K=F-255.4 or K=C-273.2, thanks to wolframalpha.com :=).

73 de Mike W5VSI

On 6/28/2010 15:20, Joe wrote:
> How much pressure difference does anyone think there would be say from
> 20 below zero, to wow say 150 above zero F?
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 6/28/2010 3:52 PM, Mike Manes wrote:
>> I think that the CGA standards require that tanks of a given size and gas
>> contain a precise number of standard cubic feet of gas. That means that
>> if the full tank temperature is below 20C, then the pressure will be lower,
>> and vice versa.
>>
>> 73 de Mike W5VSI
>>
>> On 6/28/2010 10:04, Joe wrote:
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>>> See that is at what pressure tho? there for sure isn't the volume of
>>> the tank true?
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>>> And granted where we buy our H2 it's cheap,! we still can get a full
>>> bottle for like 15 bucks. but the exact amount is very wide variances of
>>> pressure when we hook up to it. so of course then the cubic footage is
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>>> Joe WB9SBD
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>>> The Original Rolling Ball Clock
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>>>> H or K size cylinder = 219 cuft
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>>>> On Mon, Jun 28, 2010 at 10:44 AM, Joe<nss@...
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>>>> so,
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>>>> what is the average cubic footage of various tanks to get the
>>>> "Base" volume?
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>>>>>> 73 Harry KC5TRB
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7426. Re: relative price of hydrogen gas for lifting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 13:09:38 UTC
From: n1ltv
Topic: 7388 Message: 7426

> Matter of fact i have one tank i still need to take back, we
> just keep forgetting about it. it's been in my yard for over
> what 5 years?

Joe,

What size is it? Please measure the length and diameter if
you have to.

Hank

7427. The value of communicating specifics and numerical data: gas pressure variations

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 13:06:15 UTC
From: n1ltv
Topic: 7388 Message: 7427

> That could be the amount of swing we have noticed. going from a
> deep in the winter launch vs a hot summer day launch with the tank
> sitting out in the sun,,, could be!

Joe,

This is why I was asking for NUMBERS. It is possible to
give some answers to these things people observe, and debunk
mythology that sometimes develops, but usually only with
specific numbers. Some hams (not speaking about
balloonatics), despite their technical inclination, are
pretty capable of creating and propagating technical myths
and misconceptions which can become quite entrenched as the "conventional wisdom" and
difficult to take out of
circulation.

Case in point about the need for specifics is my question to
Bill on "Ballooning" yahoogroup about the balloon payload
line that he mentioned broke.

The anecdotes are fine, but the specific details, sometimes
requiring some numbers, are so much more meaningful,
instructive, and just plain useful.

Hank

7428. K or H or T, plus hydrogen pricing.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 13:46:43 UTC
From: Mark Caviezel
Topic: 7428 Message: 7428

According to Linweld in Colorado, a
K of helium is 219 standard cubic feet, and
H of helium is 240 standard cubic feet, and
T of helium is 290 standard cubic feet.

I normally use T's, sometimes K's and only once ("ES-OS SIX") encountered an H.

Regarding the price of GH2, I have paid as little as $12 per a K cylinder, and as much as $50. Since there is normally not a posted price like gasoline at the pump, the gas companies often charge as much as they think they can.

best

- Mark ng0x

7429. Re: [GPSL] K or H or T, plus hydrogen pricing.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 15:42:50 UTC
From: Joe
Topic: 7428 Message: 7429

Agreed on the pricing,

Like I said i went to "Regular" Gas companies. that all they do is supply tanks of Gasses. all sorts. and they always were the worst prices easily double others.

Then I found that farm store that carries welding supplies one day and asked them if they can get H2 and he says get? I already "Got" when i asked it was like the 15 bucks. and like I said no rentals, no deposits, nothing, just pay the 15 bucks and drive away with the tank.

As that 50's song said.

"Baby Ya Gotta Shop Around"
http://www.youtube.com/watch?v=hjy8HqrcYys

Joe WB9SBD
On 6/29/2010 8:46 AM, Mark Caviezel wrote:
> According to Linweld in Colorado, a
> K of helium is 219 standard cubic feet, and
> H of helium is 240 standard cubic feet, and
> T of helium is 290 standard cubic feet.
>
> I normally use T's, sometimes K's and only once ("ES-OS SIX") encountered an H.
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> Regarding the price of GH2, I have paid as little as $12 per a K cylinder, and as much as $50. Since there is normally not a posted price like gasoline at the pump, the gas companies often charge as much as they think they can.
>
> best
>
> - Mark ng0x
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> Yahoo! Groups Links
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7430. GPSL 2010 T-shirt ready for ordering

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 16:04:38 UTC
From: Mark Conner
Topic: 7430 Message: 7430
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.zazzle.com/gpsl_2010_shirt-235719242906244119

Shirts start at $17.45 each in qty 1 for a basic white T-shirt. Ordering your shirts as a group, even if you customize each one with a name or callsign, will reduce the price per shirt with quantity discounts and combined shipping. You can also get polo shirts if you don't want a T-shirt.

Please check over the design for errors - I'll fix them ASAP. Image from back of shirt attached.

73 de Mark N9XTN

7431. Re: [GPSL] K or H or T, plus hydrogen pricing.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 16:23:32 UTC
From: Mark Caviezel
Topic: 7428 Message: 7431

Joe:
Sounds like you've got a real good deal with your farm store!
I am a little surprised a farm store would carry H2, not sure what the other customers would use it for; I've heard that the largest use was for Oxy/Hydrogen torch welding of aluminum which is far less common that oxy/acetylene torch welding of steel and other metals.
The last time I got hydrogen, it was five K cylinders. Which made the $50 per bottle charge (plus delivery charge, plus rental charges on the cylinder) seem like a gouge.

best

- Mark

7432. Re: [GPSL] K or H or T, plus hydrogen pricing.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 17:07:08 UTC
From: Joe
Topic: 7428 Message: 7432
Attachments: 1 described; binary payloads are missing from this source WARC

Yeah the last time a local guy wanted to help out and he got a bottle
from a "National Chain" Gas supplier and by the time he was done with
all the costs it was $90 bucks.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/29/2010 11:23 AM, Mark Caviezel wrote:
> Joe:
> Sounds like you've got a real good deal with your farm store!
> I am a little surprised a farm store would carry H2, not sure what the other customers would use it for; I've heard that the largest use was for Oxy/Hydrogen torch welding of aluminum which is far less common that oxy/acetylene torch welding of steel and other metals.
> The last time I got hydrogen, it was five K cylinders. Which made the $50 per bottle charge (plus delivery charge, plus rental charges on the cylinder) seem like a gouge.
>
> best
>
> - Mark
>
>
>
>

7433. CBS Morning News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 18:20:27 UTC
From: Pete Lilja
Topic: 7433 Message: 7433

Perhaps I missed the discussion here..but here is another HAB flight TV 'news' story.

I suppose it's good to get the word about HABing out there to the general public but this guy makes makes it seem like he was the first to do this (in fairness to the guy that flew the balloon he wasn't asked particularly good questions either).

http://www.cbsnews.com/video/watch/?id=6603145n

ARHAB works better!

Pete
KC0GPB

7434. Re: [GPSL] CBS Morning News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 19:42:20 UTC
From: Jeff Dailey
Topic: 7433 Message: 7434

He sead in the interview they lost cell signal, here is the FCC ruling on the use of cellphone above the ground.

This can give all of us doing high altitude ballooning a blackeye.

Title 47: Telecommunication
PART 22—PUBLIC MOBILE SERVICES
Subpart H—Cellular Radiotelephone Service

Browse Previous | Browse Next

§ 22.925 Prohibition on airborne operation of cellular telephones.
Cellular telephones installed in or carried aboard airplanes, balloons or any other type of aircraft must not be operated while such aircraft are airborne (not touching the ground). When any aircraft leaves the ground, all cellular telephones on board that aircraft must be turned off. The following notice must be posted on or near each cellular telephone installed in any aircraft:
“The use of cellular telephones while this aircraft is airborne is prohibited by FCC rules, and the violation of this rule could result in suspension of service and/or a fine. The use of cellular telephones while this aircraft is on the ground is subject to FAA regulations.”

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, June 29, 2010 2:20:27 PM
Subject: [GPSL] CBS Morning News

Perhaps I missed the discussion here..but here is another HAB flight TV 'news' story.

I suppose it's good to get the word about HABing out there to the general public but this guy makes makes it seem like he was the first to do this (in fairness to the guy that flew the balloon he wasn't asked particularly good questions either).

http://www.cbsnews.com/video/watch/?id=6603145n

ARHAB works better!

Pete
KC0GPB

7435. Re: [GPSL] CBS Morning News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 20:25:39 UTC
From: Mark Garrett
Topic: 7433 Message: 7435

I posted a response to CBS News and mentioned the GPSL event and the URL to the website. Who knows they may want to do a story.

Mark Garrett
KA9SZX

From: Jeff Dailey <jfdailey@...>
To: GPSL@yahoogroups.com
Sent: Tue, June 29, 2010 2:42:20 PM
Subject: Re: [GPSL] CBS Morning News

He sead in the interview they lost cell signal, here is the FCC ruling on the use of cellphone above the ground.

This can give all of us doing high altitude ballooning a blackeye.

Title 47: Telecommunication
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Browse Previous | Browse Next

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Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@taylor. edu

From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups. com>
Sent: Tue, June 29, 2010 2:20:27 PM
Subject: [GPSL] CBS Morning News

Perhaps I missed the discussion here..but here is another HAB flight TV 'news' story.

I suppose it's good to get the word about HABing out there to the general public but this guy makes makes it seem like he was the first to do this (in fairness to the guy that flew the balloon he wasn't asked particularly good questions either).

http://www.cbsnews. com/video/ watch/?id= 6603145n

ARHAB works better!

Pete
KC0GPB

7436. Re: [GPSL] K or H or T, plus hydrogen pricing.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 20:51:19 UTC
From: Mike Manes
Topic: 7428 Message: 7436

Airgas here in Denver CO nicks EOSS a bit over $100 for a T-bottle
of He. Was $60 only a few years ago.
73 de Mike W5VSI

On 6/29/2010 07:46, Mark Caviezel wrote:
> According to Linweld in Colorado, a
> K of helium is 219 standard cubic feet, and
> H of helium is 240 standard cubic feet, and
> T of helium is 290 standard cubic feet.
>
> I normally use T's, sometimes K's and only once ("ES-OS SIX") encountered an H.
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> Regarding the price of GH2, I have paid as little as $12 per a K cylinder, and as much as $50. Since there is normally not a posted price like gasoline at the pump, the gas companies often charge as much as they think they can.
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7437. Re: [GPSL] CBS Morning News

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 21:59:23 UTC
From: Mike Manes
Topic: 7433 Message: 7437

What's missing in this story is how CBS News learned about this guy and
his flight. Maybe he has a "publicist", like lotsa folks in La-La land?
73 de Mike W5VSI

On 6/29/2010 12:20, Pete Lilja wrote:
>
>
> Perhaps I missed the discussion here..but here is another HAB flight TV 'news'
> story.
>
> I suppose it's good to get the word about HABing out there to the general
> public but this guy makes makes it seem like he was the first to do this (in
> fairness to the guy that flew the balloon he wasn't asked particularly good
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> KC0GPB
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7438. Re: [GPSL] Re: relative price of hydrogen gas for lifting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-29 23:57:09 UTC
From: Joe
Topic: 7388 Message: 7438
Attachments: 1 described; binary payloads are missing from this source WARC

Outside diameters 9" OD and 50" tall

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/29/2010 8:09 AM, n1ltv wrote:
>> Matter of fact i have one tank i still need to take back, we
>> just keep forgetting about it. it's been in my yard for over
>> what 5 years?
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> Joe,
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> What size is it? Please measure the length and diameter if
> you have to.
>
> Hank
>
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> Yahoo! Groups Links
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7439. Change in APRS call sign for BASE 44- now KB9ZNZ-6

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 01:13:02 UTC
From: BASE
Topic: 7439 Message: 7439

Dear friends,

BASE 44 is still a go for tomorrow morning. I have not be able to reprogram the MicroTrak 300.

We will fly under the call sign KB9ZNZ-6. I have changed the tracking links on the BASE homepage (www.depauw.edu/acad/physics/base). The id will say Taylor Balloon Sat HARP (but it is a BASE flight).

For those with good memories, the last time I ran under the KB9ZNZ call, the flight lasted 8 hours and landed in Lake Erie.

Sorry for the confusion, but I wanted to fly with some ability for the general amateur community to follow along.

Howard

7440. New Bee - Question on wireless images Live capturing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 03:38:57 UTC
From: Freddy W
Topic: 7440 Message: 7440

Is there a way to sent the images taken by the camera, like with an intervallometer every 15 sec or 30 sec., live captured on the grouns with a laptop ?
I guess you will be needing a 900Mhz radio transmitter and a Directional yagi antenna, but can it be done and so what is the technical equipment setup ?
The camera has an USB port that will plug in into ?? something else ?
Just wondering.

Freddy

7441. Re: [GPSL] New Bee - Question on wireless images Live capturing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 04:15:17 UTC
From: wb8elk@aol.com
Topic: 7440 Message: 7441

Freddy,

I'm not sure if I'll have the time to wire things up by GPSL, but I will be running just such as system soon using a TV camera with serial output (the C328 - I think it's still available from SparkFun) hooked up to a Maxstream (9XTend) 900 MHz high speed radio module....the laptop on the ground decodes the serial stream and displays each still frame.

The alternative is to send down Slow Scan TV or Fast Scan ATV which several of us have used in the past. I'll be running live motion Fast Scan TV at GPSL this year.

- Bill WB8ELK

-----Original Message-----
From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Tue, Jun 29, 2010 10:38 pm
Subject: [GPSL] New Bee - Question on wireless images Live capturing

Is there a way to sent the images taken by the camera, like with an intervallometer every 15 sec or 30 sec., live captured on the grouns with a laptop ?
I guess you will be needing a 900Mhz radio transmitter and a Directional yagi antenna, but can it be done and so what is the technical equipment setup ?
The camera has an USB port that will plug in into ?? something else ?
Just wondering.

Freddy

7442. Re: New Bee - Question on wireless images Live capturing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 04:47:07 UTC
From: Freddy W
Topic: 7440 Message: 7442

Finaly somebody has the same idea as I have, I have been surfing the web for this now for days. My computer guy said that he will put something together but I think he does not exactly know what I'm talking about...
My first project was to put a camera in intervalmode like every 15s a picture and then download (wireless) that picture into my laptop, or a live capture video all the way up and hopefully down...
But I want to save all the images and Video !! So that might be a huge file.

Sir, I'm not a technician or electronic's guy but I know a few things
I hope the 900Mhz Radio modem or the Maxstream that you mentioned will be broadcasting a signal that requires no license (??) Somebody told me that you need a license for a certain frequency and Hawaii you have to deal with the FAA and the Military and prob. freq license and the Ocean......
Bill if you have detailled information on one of these options that workd please do let me know, I want to launch a balloon any time soon... But that might take a few months.

Thank you very much.
Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Freddy,
>
> I'm not sure if I'll have the time to wire things up by GPSL, but I will be running just such as system soon using a TV camera with serial output (the C328 - I think it's still available from SparkFun) hooked up to a Maxstream (9XTend) 900 MHz high speed radio module....the laptop on the ground decodes the serial stream and displays each still frame.
>
> The alternative is to send down Slow Scan TV or Fast Scan ATV which several of us have used in the past. I'll be running live motion Fast Scan TV at GPSL this year.
>
> - Bill WB8ELK
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> -----Original Message-----
> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Tue, Jun 29, 2010 10:38 pm
> Subject: [GPSL] New Bee - Question on wireless images Live capturing
>

>
>
>
> Is there a way to sent the images taken by the camera, like with an intervallometer every 15 sec or 30 sec., live captured on the grouns with a laptop ?
> I guess you will be needing a 900Mhz radio transmitter and a Directional yagi antenna, but can it be done and so what is the technical equipment setup ?
> The camera has an USB port that will plug in into ?? something else ?
> Just wondering.
>
> Freddy
>

7443. Huntsville Field Day balloon flight recap

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 06:26:09 UTC
From: wb8elk@aol.com
Topic: 7443 Message: 7443

I flew my multi-mode tracker on 144.34 MHz FM sending out DominoEX22 and 300 baud ASCII RTTY in celebration of Field Day.

We hitched a ride on the weekly ozonesonde from near UAH in Huntsville, AL at 1 pm last Saturday at the start of Field Day.

I earlier had told the Huntsville Amateur Radio Club that their Field Day site near Integraph in Madison was my target and I was going to try to land everything right smack dab in the middle of their location.

In order to keep things as lightweight as possible, I didn't put the amplifier section onto my tracker board and just attached a quarter wave wire whip (supported by soda straws) directly to the output of the synthesizer chip for a whopping 8 milliwatts of output power. Total weight including the built-in Inventek GPS, 4 AA lithium batteries, duct tape and three layers of bubble wrap insulation was 4.5 ounces.

I had two ground stations setup about 20 miles apart (as well as in my car) to receive the DominoEX and 300 baud ASCII RTTY telemetry and decoded it via a modified version of FLdigi (called dl-FLdigi) which sends checksum validated telemetry data directly to a server in the UK which plotted onto the http://spacenear.us/tracker Google map display.

Alan Sieg WB5RMG was able to visually see the balloon from his location at the Marshall Space Flight Center's Field Day site and actually watched it burst at 97,100 feet. Meanwhile at the Huntsville Amateur Radio Club's site we could see the parachute as it descended below 15,000 feet and a large group of those in attendance watched in fascination as it slowly drifted directly across their Field Day site to land just 0.75 miles east of us.

Someone on the GPSL list said I'd be the "King of Ballooning" if I could land it on our Field Day site...does 3/4 of a mile at least qualify me for the "Crowned Prince of Ballooning" ;-) . I'm getting closer each year....last year I told the Eva, AL Field Day site I'd land on them and missed them by one mile.

Shane N4XWC, Ethan Chew of the Makers Club, Barry N4MSJ and I could hear the signals as we drove down Zierdt Road along the west boundary of the Redstone Arsenal. We were surprised to see it all floating on top of the waters of Lady Ann Lake in the Edgewater subdivision about 200 feet from the nearest shore. Curiously enough this was only a few hundred feet away from where I landed the 2008 Field Day balloon two years ago inside the Arsenal.

As we approached the shoreline of the lake nearest to the payloads, we noticed a very conveniently located kayak lying inside a gazebo. We asked the homeowner if we could borrow his kayak and he gave us permission. Ethan Chew paddled out and successfully rescued everything in good shape. All payloads were still operating even after 30 minutes in the lake.

Although the 8 milliwatt signal from my transmitter was a real challenge to receive when directly below it's vertical whip in the "cone of silence" I did manage to get perfect copy

from my farmhouse remote base 20 miles away and never missed a transmission throughout the flight.

We brought it all back to the Huntsville Field Day site and had a nice show n tell during their cookout.

I'll probably update my website in the next day or two with some photos of the flight and kayak recovery.

- Bill WB8ELK

7444. Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 13:02:20 UTC
From: Keith Kaiser
Topic: 7444 Message: 7444

I received an eMail today from a guy on Oahu, HI that wants to launch a balloon. I did the math and it might just be possible see: <http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face it he is more likely to lose the flight than anything. And he is OK with that, but he wants some ideas on how to get photos down from the launch before it goes swimming. And other ideas how to proceed. Seventy miles of island in the mid-Pacific, hell of an opportunity for Great Plainers. Any ideas? I bet a big island launch would be easier at least and with the winds they way they are maybe it'll land on one of the other islands. Cool!

7445. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 15:10:21 UTC
From: Rodney Sparks
Topic: 7444 Message: 7445

What about a water recovery in a sealed and hydrophobic-vent-equipped styrofoam ice chest? Too bad the SPOT tracker doesn't work in Hawaii (my brother took mine on a trip there and it didn't work)... This'd be a great application for it.

http://www.deltapackaging.com/EPSFoamBoxes.html

-Rodney

On Wed, Jun 30, 2010 at 6:02 AM, Keith Kaiser <wa0tjt@...> wrote:

> I received an eMail today from a guy on Oahu, HI that wants to launch a
> balloon. I did the math and it might just be possible see: <
> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face
> it he is more likely to lose the flight than anything. And he is OK with
> that, but he wants some ideas on how to get photos down from the launch
> before it goes swimming. And other ideas how to proceed. Seventy miles of
> island in the mid-Pacific, hell of an opportunity for Great Plainers. Any
> ideas? I bet a big island launch would be easier at least and with the winds
> they way they are maybe it'll land on one of the other islands. Cool!
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7446. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 15:17:23 UTC
From: L. Paul Verhage
Topic: 7444 Message: 7446

He ought to considered a reefed parachute. That would allow this near space craft do drop faster and recover closer to the launch site. On a "typical" mission, the descent portion of the flight is about 1/3rd of the entire flight path.

He just needs to make sure the reefing system will open the 'chute before touchdown.

Note: Slowing down by parachute is called aerobraking. Slowing down by impact with the ground is called lithobraking.

Paul

On Wed, Jun 30, 2010 at 10:10 AM, Rodney Sparks <rodney@...> wrote:

>
>
> What about a water recovery in a sealed and hydrophobic-vent-equipped
> styrofoam ice chest? Too bad the SPOT tracker doesn't work in Hawaii (my
> brother took mine on a trip there and it didn't work)... This'd be a great
> application for it.
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> http://www.deltapackaging.com/EPSFoamBoxes.html
>
> -Rodney
>
> On Wed, Jun 30, 2010 at 6:02 AM, Keith Kaiser <wa0tjt@...> wrote:
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>> I received an eMail today from a guy on Oahu, HI that wants to launch a
>> balloon. I did the math and it might just be possible see: <
>> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face
>> it he is more likely to lose the flight than anything. And he is OK with
>> that, but he wants some ideas on how to get photos down from the launch
>> before it goes swimming. And other ideas how to proceed. Seventy miles of
>> island in the mid-Pacific, hell of an opportunity for Great Plainers. Any
>> ideas? I bet a big island launch would be easier at least and with the winds
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Onwards and Upwards,
Paul

7447. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 15:38:43 UTC
From: Pete Lilja
Topic: 7444 Message: 7447

There has been some recent discussion amongst some rocketry buddies of mine using an altimeter based line-cutter to un-reef a parachute. In rocketry we use an e-match and a very small pyro charge to deploy the 'chutes but something similar could be done without black powder by innovative HABists, I'm sure. Here is a link to the forum where this has been discussed recently: http://tqc.yuku.com/topic/3188?page=1 In my limited experience and opinion using a large parachute from burst altitude in a HAB flight is unneccesary. A small drogue to keep things stable until an altitude of, say, 1500' where the main 'chute opens would be sufficient for safe recovery of a HAB. That's the technique used in High Power Rocketry. I've seen many, many heavy rockets 50+ lbs. open their mains from 800 to 1200' and slow enough to avoid the dreaded and damaging "lithobraking."

And as far as those ice chests mentioned. I purchased for a few bucks several years ago a very similar box at the local fishing bait shop / store. It was sold as a wormbox. It's stood up well to 4 HAB flights as it is a much denser stryofoam that those cheap coolers from Wal-Mart or K-Mart.

Pete
KC0GPB

On Wed, Jun 30, 2010 at 10:17 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> He ought to considered a reefed parachute. That would allow this near
> space craft do drop faster and recover closer to the launch site. On a
> "typical" mission, the descent portion of the flight is about 1/3rd of the
> entire flight path.
>
> He just needs to make sure the reefing system will open the 'chute before
> touchdown.
>
> Note: Slowing down by parachute is called aerobraking. Slowing down by
> impact with the ground is called lithobraking.
>
> Paul
>
> On Wed, Jun 30, 2010 at 10:10 AM, Rodney Sparks <rodney@rsparks.com>wrote:
>
>>
>>
>> What about a water recovery in a sealed and hydrophobic-vent-equipped
>> styrofoam ice chest? Too bad the SPOT tracker doesn't work in Hawaii (my
>> brother took mine on a trip there and it didn't work)... This'd be a great
>> application for it.

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>> http://www.deltapackaging.com/EPSFoamBoxes.html
>>
>> -Rodney
>>
>> On Wed, Jun 30, 2010 at 6:02 AM, Keith Kaiser <wa0tjt@...> wrote:
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>>> I received an eMail today from a guy on Oahu, HI that wants to launch a
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>>> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets
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>>> with that, but he wants some ideas on how to get photos down from the launch
>>> before it goes swimming. And other ideas how to proceed. Seventy miles of
>>> island in the mid-Pacific, hell of an opportunity for Great Plainers. Any
>>> ideas? I bet a big island launch would be easier at least and with the winds
>>> they way they are maybe it'll land on one of the other islands. Cool!
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> Onwards and Upwards,
> Paul
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7448. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 15:48:35 UTC
From: L. Paul Verhage
Topic: 7444 Message: 7448

I've sewn loops into the bottoms of parachutes to attach the shroud lines.
I was thinking that someday I'd like to lace a thin dacron cord through
these loops and tie a knot. The cord would prevent the 'chute from fully
opening. I've successfully used a coil of nichrome wire to melt the dacron
and figure it would be ideal for a reefing system. For redunacy, I'd use
two line burners on opposite sides of the 'chute with each one with its own
battery and microcontroller. The micro could be programmed to cut the time
based on either pressure, temperature, and time. That gives each micro a
triple redunacy in detecting when to cut the line.

Paul

On Wed, Jun 30, 2010 at 10:38 AM, Pete Lilja <plilja@...> wrote:

>
>
> There has been some recent discussion amongst some rocketry buddies of mine
> using an altimeter based line-cutter to un-reef a parachute. In rocketry we
> use an e-match and a very small pyro charge to deploy the 'chutes but
> something similar could be done without black powder by innovative HABists,
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> recently: http://tqc.yuku.com/topic/3188?page=1 In my limited experience
> and opinion using a large parachute from burst altitude in a HAB flight is
> unneccesary. A small drogue to keep things stable until an altitude of,
> say, 1500' where the main 'chute opens would be sufficient for safe recovery
> of a HAB. That's the technique used in High Power Rocketry. I've seen
> many, many heavy rockets 50+ lbs. open their mains from 800 to 1200' and
> slow enough to avoid the dreaded and damaging "lithobraking."
>
> And as far as those ice chests mentioned. I purchased for a few bucks
> several years ago a very similar box at the local fishing bait shop /
> store. It was sold as a wormbox. It's stood up well to 4 HAB flights as it
> is a much denser stryofoam that those cheap coolers from Wal-Mart or K-Mart.
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> Pete
> KC0GPB
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> On Wed, Jun 30, 2010 at 10:17 AM, L. Paul Verhage <nearsys@...>wrote:
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>> He ought to considered a reefed parachute. That would allow this near
>> space craft do drop faster and recover closer to the launch site. On a
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>> entire flight path.
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>> impact with the ground is called lithobraking.
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>> Paul
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>> On Wed, Jun 30, 2010 at 10:10 AM, Rodney Sparks <rodney@...>wrote:
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>>>
>>> What about a water recovery in a sealed and hydrophobic-vent-equipped
>>> styrofoam ice chest? Too bad the SPOT tracker doesn't work in Hawaii (my
>>> brother took mine on a trip there and it didn't work)... This'd be a great
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>>> http://www.deltapackaging.com/EPSFoamBoxes.html
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>>> -Rodney
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>>> On Wed, Jun 30, 2010 at 6:02 AM, Keith Kaiser <wa0tjt@...> wrote:
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>>>> I received an eMail today from a guy on Oahu, HI that wants to launch a
>>>> balloon. I did the math and it might just be possible see: <
>>>> http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

7449. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 15:56:18 UTC
From: Mark Conner
Topic: 7444 Message: 7449

I think a reefed chute deployed at low levels, combined with careful selection of launch dates and times based on the wind forecast, should result in at least the possibility of on-island recoveries. I haven't looked at the wind climatology to know how frequently that might occur.

Based on my recollection of Oahu's terrain (from my one two-day visit), and how much of the island is difficult or impossible to access, even an on-island landing does not guarantee recovery. It might be better to make a waterproof (but still vented) payload, plan a landing several miles offshore and arrange for a boat. At least you don't have to contend with trees, crevasses, or military installations.

As I recall, there was a ham in Puerto Rico who faced many of the same difficulties with his launches.

73 de Mark N9XTN

On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@...> wrote:
> I received an eMail today from a guy on Oahu, HI that wants to launch a balloon. I did the math and it might just be possible see: <http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face it he is more likely to lose the flight than anything. And he is OK with that, but he wants some ideas on how to get photos down from the launch before it goes swimming. And other ideas how to proceed. Seventy miles of island in the mid-Pacific, hell of an opportunity for Great Plainers. Any ideas? I bet a big island launch would be easier at least and with the winds they way they are maybe it'll land on one of the other islands. Cool!
>

7450. Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 17:46:26 UTC
From: Freddy W
Topic: 7444 Message: 7450

Thanks guys for your reaction...
I already bought a 900mhz broadcast modem for live viewing the images.
As far for recovery, I will use a parachute but as you said the ocean or even the terrain makes it almost impossible to recover.
I will try to get thing electronically worked out and I see from there. If not I will come to the mainland to try it out there.
It might take a few months but I will get there, still waiting on the FAA approval to launch a weather balloon here in Hawaii.

Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> I think a reefed chute deployed at low levels, combined with careful
> selection of launch dates and times based on the wind forecast, should
> result in at least the possibility of on-island recoveries. I haven't
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> don't have to contend with trees, crevasses, or military
> installations.
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> difficulties with his launches.
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> 73 de Mark N9XTN
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> On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@...> wrote:
> > I received an eMail today from a guy on Oahu, HI that wants to launch a balloon. I did the math and it might just be possible see: <http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face it he is more likely to lose the flight than anything. And he is OK with that, but he wants some ideas on how to get photos down from the launch before it goes swimming. And other ideas how to proceed. Seventy miles of island in the mid-Pacific, hell of an opportunity for Great Plainers. Any ideas? I bet a big island launch would be easier at least and with the winds they way they are maybe it'll land on one of the other islands. Cool!
> >
>

7451. XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 18:28:34 UTC
From: Freddy W
Topic: 7451 Message: 7451

I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my equipment list.
I just wonder what divice do you need to plug in into your laptop to get the signal from the 900 mhz modem ?
Sorry for this question..
Freddy

7452. Re: [GPSL] XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 18:41:11 UTC
From: Mark Conner
Topic: 7451 Message: 7452

http://www.digi.com/products/model.jsp?lid=EN&pgid=134&pfid=112&mtid=3341&amtid=3341&pm=Y

This looks like it is a RS-232 device instead of USB. You'll need a
RS-232 port on your laptop, or a USB-to-serial converter. You'll have
a data stream coming out that will look just like what went into the
radio at the other end.

I worked with a hot-air balloon pilot who bought a pair of these
radios for tracking a record attempt. Initially we were going to go
the APRS route but it wasn't suitable for his requirements. They work
pretty well, though you may need a handheld beam to receive the signal
at longer distances.

Keep in mind that the 9600-baud mode will not keep up with a full-time
9600-baud input data stream. There is some overhead in the RF
encoding and the effective data throughput is less. We found this out
the hard way.

73 de Mark N9XTN

On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@...> wrote:
> I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my
equipment list.
> I just wonder what divice do you need to plug in into your laptop to get the signal from
the 900 mhz modem ?
> Sorry for this question..
> Freddy
>
>

7453. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 19:01:12 UTC
From: Freddy W
Topic: 7451 Message: 7453

Thanks,
I will use a USB-to-Serial converter and the software I have from my telescopes controls....
I also planning to get a directional yagi antenna for better signal.
Somebody used it before and it seems to work they said.
Now what do I need for capturing on the ground with the laptop ?
Software, hardware ? Are there any pictures on this ?

Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
>
http://www.digi.com/products/model.jsp?lid=EN&pgid=134&pfid=112&mtid=3341&amtid=3341&pm=Y
>
> This looks like it is a RS-232 device instead of USB. You'll need a
> RS-232 port on your laptop, or a USB-to-serial converter. You'll have
> a data stream coming out that will look just like what went into the
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> radios for tracking a record attempt. Initially we were going to go
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> > Sorry for this question..
> > Freddy
> >
> >
>

7454. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 19:19:39 UTC
From: Mark Garrett
Topic: 7444 Message: 7454

I hate to say this but maybe you should have a water landing planned. A tightly sealed container that floats. If it lands upright you could place a beacon on it (and the group can determine what would best propagate over a water path). When everything is done correctly you can determine within a few miles of where the package will land and you could have a boat already in the area of drop that has the ability to track. As long as there are no storms kicking up the waters the swells should be manageable.

It would be an area that has not been fully investigated yet. If Apollo and Mercury space missions can have water landings, so can you.

Mark Garrett
KA9SZX

From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, June 30, 2010 12:46:26 PM
Subject: [GPSL] Re: Need some ideas

Thanks guys for your reaction...
I already bought a 900mhz broadcast modem for live viewing the images.
As far for recovery, I will use a parachute but as you said the ocean or even the terrain makes it almost impossible to recover.
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It might take a few months but I will get there, still waiting on the FAA approval to launch a weather balloon here in Hawaii.

Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> I think a reefed chute deployed at low levels, combined with careful
> selection of launch dates and times based on the wind forecast, should
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> visit), and how much of the island is difficult or impossible to
> access, even an on-island landing does not guarantee recovery. It
> might be better to make a waterproof (but still vented) payload, plan
> a landing several miles offshore and arrange for a boat. At least you
> don't have to contend with trees, crevasses, or military
> installations.
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> As I recall, there was a ham in Puerto Rico who faced many of the same
> difficulties with his launches.
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> 73 de Mark N9XTN
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> On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@...> wrote:
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>

7455. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 19:31:42 UTC
From: Joe
Topic: 7444 Message: 7455

On 6/30/2010 2:19 PM, Mark Garrett wrote:
>
>
> I hate to say this but maybe you should have a water landing planned.
I agree with Mark. If I was there I would insist we do have a water based landing and just design the payload accordingly. Float like Buoy, with the transmitting antenna as high as possible to transmit out as far as possible.
> A tightly sealed container that floats. If it lands upright you could
> place a beacon on it (and the group can determine what would best
> propagate over a water path).
I would think myself even 2 meter should go for several miles. I would think something like the old Micro trac 300 bobbing on the ocean would have a better chance of being heard than it would here in wisconsin in a valley. surrounded by 300 foot tall hills.
> When everything is done correctly you can determine within a few miles
> of where the package will land and you could have a boat already in
> the area of drop that has the ability to track. As long as there are
> no storms kicking up the waters the swells should be manageable.
Agreed.
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> It would be an area that has not been fully investigated yet. If
> Apollo and Mercury space missions can have water landings, so can you.
Well i wouldn't go that far. Apollo and Mercury, Gemini too, all were the government, and that have permission to launch giant rockets wherever they want do we?
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> Mark Garrett
> KA9SZX
>
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> ---
> *From:* Freddy W <frewi80@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, June 30, 2010 12:46:26 PM
> *Subject:* [GPSL] Re: Need some ideas
>
> Thanks guys for your reaction...
> I already bought a 900mhz broadcast modem for live viewing the images.
> As far for recovery, I will use a parachute but as you said the ocean
> or even the terrain makes it almost impossible to recover.
> I will try to get thing electronically worked out and I see from
> there. If not I will come to the mainland to try it out there.
> It might take a few months but I will get there, still waiting on the
> FAA approval to launch a weather balloon here in Hawaii.

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> Freddy
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> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Mark
> Conner <mconner1@...> wrote:
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7456. Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 19:37:52 UTC
From: Freddy W
Topic: 7444 Message: 7456

I will plan for a waterlanding and recovery.
I hate to see my equipment getting wasted, but still there are the remote area's and mountains that are not accesable.
So I have to go with a live view option aswell, I'm working on all options and will plan it carefully, only the electronical part worries me a bit.
Freddy

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
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> On 6/30/2010 2:19 PM, Mark Garrett wrote:
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> > I hate to say this but maybe you should have a water landing planned.
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> a valley. surrounded by 300 foot tall hills.
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> > of where the package will land and you could have a boat already in
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> > no storms kicking up the waters the swells should be manageable.
> Agreed.
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> > It would be an area that has not been fully investigated yet. If
> > Apollo and Mercury space missions can have water landings, so can you.
> Well i wouldn't go that far. Apollo and Mercury, Gemini too, all were
> the government, and that have permission to launch giant rockets
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> > Mark Garrett
> > KA9SZX
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> >
> > ---
> > *From:* Freddy W <frewi80@...>
> > *To:* GPSL@yahoogroups.com
> > *Sent:* Wed, June 30, 2010 12:46:26 PM

> > *Subject:* [GPSL] Re: Need some ideas
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> > Thanks guys for your reaction...
> > I already bought a 900mhz broadcast modem for live viewing the images.
> > As far for recovery, I will use a parachute but as you said the ocean
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> > Freddy
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7457. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:00:44 UTC
From: Mark Garrett
Topic: 7444 Message: 7457

Freddy:

If you need assistance maybe I could bend the ear of a few hams I know there on Ohau and see if one or more would have access to a boat.

Mark Garrett
KA9SZX

From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, June 30, 2010 2:37:52 PM
Subject: [GPSL] Re: Need some ideas

I will plan for a waterlanding and recovery.
I hate to see my equipment getting wasted, but still there are the remote area's and mountains that are not accesable.
So I have to go with a live view option aswell, I'm working on all options and will plan it carefully, only the electronical part worries me a bit.
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7458. Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:14:59 UTC
From: Freddy W
Topic: 7444 Message: 7458

That would be great !!
That gives me hope.
I will adjust my plans like wise !!
But it will take a few months, hope to get it all ready sooner.
Freddy

--- In GPSL@yahoogroups.com, Mark Garrett <ka9szx@...> wrote:
>
> Freddy:
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> KA9SZX
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> _____
> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, June 30, 2010 2:37:52 PM
> Subject: [GPSL] Re: Need some ideas
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7459. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:22:00 UTC
From: Joe
Topic: 7444 Message: 7459
Attachments: 1 described; binary payloads are missing from this source WARC

I don't thing Freddy has a License yet. So that Yes mark would be good
for him, then he could add some sort of a beacon to his payload you know?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/30/2010 3:00 PM, Mark Garrett wrote:
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>
> Freddy:
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7460. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:27:57 UTC
From: Jerry Gable
Topic: 7451 Message: 7460

All you really need is 2 of those radio modems. Out of the box they work as a serial line replacement. What you send on one comes out the others serial port.

I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.

I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.

Jerry

From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, June 30, 2010 12:01:12 PM
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Thanks,
I will use a USB-to-Serial converter and the software I have from my telescopes controls....
I also planning to get a directional yagi antenna for better signal.
Somebody used it before and it seems to work they said.
Now what do I need for capturing on the ground with the laptop ?
Software, hardware ? Are there any pictures on this ?

Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
>
http://www.digi.com/products/model.jsp?lid=EN&pgid=134&pfid=112&mtid=3341&amtid=3341&pm=Y
>
> This looks like it is a RS-232 device instead of USB. You'll need a
> RS-232 port on your laptop, or a USB-to-serial converter. You'll have
> a data stream coming out that will look just like what went into the
> radio at the other end.
>
> I worked with a hot-air balloon pilot who bought a pair of these
> radios for tracking a record attempt. Initially we were going to go
> the APRS route but it wasn't suitable for his requirements. They work
> pretty well, though you may need a handheld beam to receive the signal
> at longer distances.
>

> Keep in mind that the 9600-baud mode will not keep up with a full-time
> 9600-baud input data stream. There is some overhead in the RF
> encoding and the effective data throughput is less. We found this out
> the hard way.
>
> 73 de Mark N9XTN
>
> On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@...> wrote:
> > I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my
equipment list.
> > I just wonder what divice do you need to plug in into your laptop to get the signal
from the 900 mhz modem ?
> > Sorry for this question..
> > Freddy
> >
> >
>

7461. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:31:58 UTC
From: Michael Willett
Topic: 7444 Message: 7461

There is a bit of a challenge, the package must be able to breathe air out and in for the ascent and descent and then must be water proof and self-righting in the water with possibly parachute and shards of balloon attached.

My initial thought would be a ball-like enclosure (Styrofoam ball) top weighted with batteries and goods, with the 1/4 wave whip sticking out of the bottom. The 1/4 whip antenna would be downward pointing for ascent and descent, and then upon contact with the water would self-right with the drag chute and balloon shards in the water, with the 1/4 whip now pointing up for best propagation.

I would like to vote that GPSL be in the HI islands for 2011! :) This - uh - "pre-planned" water landing stuff sounds like great fun!

--Michael
K5NOT

On 6/30/2010 2:37 PM, Freddy W wrote:
>
> I will plan for a waterlanding and recovery.
> I hate to see my equipment getting wasted, but still there are the
> remote area's and mountains that are not accesable.
> So I have to go with a live view option aswell, I'm working on all
> options and will plan it carefully, only the electronical part worries
> me a bit.
> Freddy
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Joe
> <nss@...> wrote:
> >
> >
> > On 6/30/2010 2:19 PM, Mark Garrett wrote:
> > >
> > >
> > > I hate to say this but maybe you should have a water landing planned.
> > > I agree with Mark. If I was there I would insist we do have a water
> > > based landing and just design the payload accordingly. Float like Buoy,
> > > with the transmitting antenna as high as possible to transmit out as
> > far
> > > as possible.
> > > > A tightly sealed container that floats. If it lands upright you could
> > > > place a beacon on it (and the group can determine what would best
> > > > propagate over a water path).
> > > I would think myself even 2 meter should go for several miles. I would
> > > think something like the old Micro trac 300 bobbing on the ocean would

> > have a better chance of being heard than it would here in wisconsin in
> > a valley. surrounded by 300 foot tall hills.
> > > When everything is done correctly you can determine within a few
> miles
> > > of where the package will land and you could have a boat already in
> > > the area of drop that has the ability to track. As long as there are
> > > no storms kicking up the waters the swells should be manageable.
> > Agreed.
> > >
> > > It would be an area that has not been fully investigated yet. If
> > > Apollo and Mercury space missions can have water landings, so can you.
> > Well i wouldn't go that far. Apollo and Mercury, Gemini too, all were
> > the government, and that have permission to launch giant rockets
> > wherever they want do we?
> > >
> > > Mark Garrett
> > > KA9SZX
> > >
> > >
> > > --
> > > *From:* Freddy W <frewi80@...>
> > > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > > *Sent:* Wed, June 30, 2010 12:46:26 PM
> > > *Subject:* [GPSL] Re: Need some ideas
> > >
> > > Thanks guys for your reaction...
> > > I already bought a 900mhz broadcast modem for live viewing the images.
> > > As far for recovery, I will use a parachute but as you said the ocean
> > > or even the terrain makes it almost impossible to recover.
> > > I will try to get thing electronically worked out and I see from
> > > there. If not I will come to the mainland to try it out there.
> > > It might take a few months but I will get there, still waiting on the
> > > FAA approval to launch a weather balloon here in Hawaii.
> > >
> > > Freddy
> > >
> > > --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL%40yahoogroups.com>, Mark
> > > Conner <mconner1@> wrote:
> > > >
> > > > I think a reefed chute deployed at low levels, combined with careful
> > > > selection of launch dates and times based on the wind forecast,
> should
> > > > result in at least the possibility of on-island recoveries. I
> haven't
> > > > looked at the wind climatology to know how frequently that might
> > > > occur.
> > > >
> > > > Based on my recollection of Oahu's terrain (from my one two-day
> > > > visit), and how much of the island is difficult or impossible to

> > > > access, even an on-island landing does not guarantee recovery. It
> > > > might be better to make a waterproof (but still vented) payload,
> plan
> > > > a landing several miles offshore and arrange for a boat. At
> least you
> > > > don't have to contend with trees, crevasses, or military
> > > > installations.
> > > >
> > > > As I recall, there was a ham in Puerto Rico who faced many of
> the same
> > > > difficulties with his launches.
> > > >
> > > > 73 de Mark N9XTN
> > > >
> > > > On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@> wrote:
> > > > > I received an eMail today from a guy on Oahu, HI that wants to
> > > launch a balloon. I did the math and it might just be possible see:
> > > <http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets
> > > face it he is more likely to lose the flight than anything. And he is
> > > OK with that, but he wants some ideas on how to get photos down from
> > > the launch before it goes swimming. And other ideas how to proceed.
> > > Seventy miles of island in the mid-Pacific, hell of an opportunity
> for
> > > Great Plainers. Any ideas? I bet a big island launch would be easier
> > > at least and with the winds they way they are maybe it'll land on one
> > > of the other islands. Cool!
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7462. RE: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:32:26 UTC
From: Rick von Glahn
Topic: 7444 Message: 7462

There is a Space Grant Consortium operation in Puerto Rico. I'd definitely get in touch with them. They have done flight from their hunk of terra firma and made lots of recoveries:

http://www.prsgc.upr.edu/

Good luck.

73 -- Rick

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Freddy W
> Sent: Wednesday, June 30, 2010 11:46 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Re: Need some ideas
>
> Thanks guys for your reaction...
> I already bought a 900mhz broadcast modem for live viewing the images.
> As far for recovery, I will use a parachute but as you said the ocean or
even
> the terrain makes it almost impossible to recover.
> I will try to get thing electronically worked out and I see from there. If
not I
> will come to the mainland to try it out there.
> It might take a few months but I will get there, still waiting on the FAA
> approval to launch a weather balloon here in Hawaii.
>
> Freddy
>
> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
> >
> > I think a reefed chute deployed at low levels, combined with careful
> > selection of launch dates and times based on the wind forecast, should
> > result in at least the possibility of on-island recoveries. I haven't
> > looked at the wind climatology to know how frequently that might
> > occur.
> >
> > Based on my recollection of Oahu's terrain (from my one two-day
> > visit), and how much of the island is difficult or impossible to
> > access, even an on-island landing does not guarantee recovery. It
> > might be better to make a waterproof (but still vented) payload, plan
> > a landing several miles offshore and arrange for a boat. At least you
> > don't have to contend with trees, crevasses, or military
> > installations.
> >

> > As I recall, there was a ham in Puerto Rico who faced many of the same
> > difficulties with his launches.
> >
> > 73 de Mark N9XTN
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> > On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@...> wrote:
> > > I received an eMail today from a guy on Oahu, HI that wants to launch
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> balloon. I did the math and it might just be possible see:
> <http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets
> face it he is more likely to lose the flight than anything. And he is OK
with
> that, but he wants some ideas on how to get photos down from the launch
> before it goes swimming. And other ideas how to proceed. Seventy miles of
> island in the mid-Pacific, hell of an opportunity for Great Plainers. Any
ideas?
> I bet a big island launch would be easier at least and with the winds they
way
> they are maybe it'll land on one of the other islands. Cool!
> > >
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> Yahoo! Groups Links
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7463. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:39:12 UTC
From: L. Paul Verhage
Topic: 7444 Message: 7463

Pete Sias showed our Manhattan club how he machined an enclosure from Styrofoam. You could glue sheets together and then spin it up on a drill press. It shapes with a sheet of sandpaper. I've made a hemisphere using this method. I completed it by covering it in 1/2 oz. fiberglass.

Paul

On Wed, Jun 30, 2010 at 3:32 PM, Rick von Glahn <rick@...> wrote:

> There is a Space Grant Consortium operation in Puerto Rico. I'd definitely
> get in touch with them. They have done flight from their hunk of terra
> firma
> and made lots of recoveries:
>
> http://www.prsgc.upr.edu/
>
> Good luck.
>
>
> 73 -- Rick
>
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> > Of Freddy W
> > Sent: Wednesday, June 30, 2010 11:46 AM
> > To: GPSL@yahoogroups.com
> > Subject: [GPSL] Re: Need some ideas
> >
> > Thanks guys for your reaction...
> > I already bought a 900mhz broadcast modem for live viewing the images.
> > As far for recovery, I will use a parachute but as you said the ocean or
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> > the terrain makes it almost impossible to recover.
> > I will try to get thing electronically worked out and I see from there.
> If
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> > approval to launch a weather balloon here in Hawaii.
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> > Freddy
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> > --- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
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> > > don't have to contend with trees, crevasses, or military
> > > installations.
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> > > Yahoo! Groups Links
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> > Yahoo! Groups Links

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Onwards and Upwards,
Paul

7464. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:36:58 UTC
From: Freddy W
Topic: 7451 Message: 7464

So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
Do I nee a license for that when I use then ?
Maybe I can get the Oahu Ham guy involved and use his license.
Just to get legal ..
Freddy

--- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@...> wrote:
>
> All you really need is 2 of those radio modems. Out of the box they work as a serial line replacement. What you send on one comes out the others serial port.
>
> I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.
>
> I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
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> Jerry
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> _____
> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, June 30, 2010 12:01:12 PM
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>
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> Thanks,
> I will use a USB-to-Serial converter and the software I have from my telescopes controls....
> I also planning to get a directional yagi antenna for better signal.
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> Now what do I need for capturing on the ground with the laptop ?
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> > This looks like it is a RS-232 device instead of USB. You'll need a
> > RS-232 port on your laptop, or a USB-to-serial converter. You'll have
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> > I worked with a hot-air balloon pilot who bought a pair of these
> > radios for tracking a record attempt. Initially we were going to go
> > the APRS route but it wasn't suitable for his requirements. They work
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from the 900 mhz modem ?
> > > Sorry for this question..
> > > Freddy
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> > >
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>

7465. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:49:42 UTC
From: Joe
Topic: 7444 Message: 7465
Attachments: 1 described; binary payloads are missing from this source WARC

Go to the address below for perfect spheres.

Tell them Joe from Near Space Sciences sent ya.
This is a ball we used once, it's 16" diameter and has 7/8" thick walls.

Its nice locking tabs so when the halves are places together they line
up correctly, really cool.
http://www.plasteelcorp.com/foamshapes/smoothfoam_styrofoam/10073.html

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/30/2010 3:39 PM, L. Paul Verhage wrote:
>
>
> Pete Sias showed our Manhattan club how he machined an enclosure from
> Styrofoam. You could glue sheets together and then spin it up on a
> drill press. It shapes with a sheet of sandpaper. I've made a
> hemisphere using this method. I completed it by covering it in 1/2
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> <mailto:rick@...>> wrote:
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> There is a Space Grant Consortium operation in Puerto Rico. I'd
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>
> http://www.prsgc.upr.edu/
>
> Good luck.
>
>
> 73 -- Rick
>
>
> > -----Original Message-----

> > From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] On Behalf
> > Of Freddy W
> > Sent: Wednesday, June 30, 2010 11:46 AM
> > To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > Subject: [GPSL] Re: Need some ideas
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> > Thanks guys for your reaction...
> > I already bought a 900mhz broadcast modem for live viewing the
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> > >
> > > As I recall, there was a ham in Puerto Rico who faced many of
> the same
> > > difficulties with his launches.
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> > > On Wed, Jun 30, 2010 at 08:02, Keith Kaiser <wa0tjt@...> wrote:
> > > > I received an eMail today from a guy on Oahu, HI that wants
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
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> --
> Onwards and Upwards,

> Paul
>
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7466. BASE 44 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 20:51:19 UTC
From: BASE
Topic: 7466 Message: 7466

Dear friends,

Our flight today pales in comparison to the excitement on the list about the Hawaii flight, however, I want to report a complete success.

Launch was a few minutes early, and the ascent was slower than planned since the slight breeze gave false lift. Both of these factors aided the flight in landing in a favorable (i.e, no trees) environment. We watched the ascent from 60 kft till burst at 84 kft from the square in Hope, Indiana. Final descent was observed from about 5 kft ASL. Landed in soybeans about 100 yards from the road and closer to a corn field. No property owner was located, although I made friends with a pair of elderly dogs.

Lunch at the Hope Market post-flight was nice (and reasonably priced), if you're ever nearby :).

I was pleased that the 600 gram balloon with a Helium fill made it to 84 kft.

Hope to return toward Hope again sometime soon (maybe next week).

Thanks for your support,
Howard

7467. Re: BASE 44 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:05:46 UTC
From: Freddy W
Topic: 7466 Message: 7467

That's great news Howard,
Glad to be part of this group, and sorry about all my posts here.
Freddy

--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:
>
> Dear friends,
>
> Our flight today pales in comparison to the excitement on the list about the Hawaii flight, however, I want to report a complete success.
>
> Launch was a few minutes early, and the ascent was slower than planned since the slight breeze gave false lift. Both of these factors aided the flight in landing in a favorable (i.e, no trees) environment. We watched the ascent from 60 kft till burst at 84 kft from the square in Hope, Indiana. Final descent was observed from about 5 kft ASL. Landed in soybeans about 100 yards from the road and closer to a corn field. No property owner was located, although I made friends with a pair of elderly dogs.
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>
> I was pleased that the 600 gram balloon with a Helium fill made it to 84 kft.
>
> Hope to return toward Hope again sometime soon (maybe next week).
>
> Thanks for your support,
> Howard
>

7468. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:08:25 UTC
From: dvpatterson@comcast.net
Topic: 7451 Message: 7468

I've been flying the OEM version of these radios for years - first with Taylor's HARP team and now on my own, and they work great. They work in the ISM license free band, so you don't need a callsign unless you're planning on adding an APRS beacon (makes for a good backup, and the rest of us can watch online while you're in range of an iGate). Keep in mind that they have two over-the-air data rates (the speed at which the RF is transmitted... a different number than the interface rate, wich is the speed at which the hardware lines run), and the choice you make on 9.6k vs. 115k has an impact on the functional signal-to-noise ratio. In other words, you'll wind up with a shorter range on the radios at the higher over-the-air rate given the same antennas, operating conditions, etc. A link budget will help you decide on an RF configuration... here's an easy calculator: http :// www . aubraux .com/design/rf-link-budget-calculator. php . Other calculators with much deeper insight can be found with some Googleing .

Good luck!

-David

----- Original Message -----
From: "Freddy W" <frewi80@ hotmail .com>
To: GPSL @ yahoogroups .com
Sent: Wednesday, June 30, 2010 2:36:58 PM
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
Do I nee a license for that when I use then ?
Maybe I can get the Oahu Ham guy involved and use his license.
Just to get legal ..
Freddy

--- In GPSL @ yahoogroups .com , Jerry Gable < jerrygable @...> wrote:
>
> All you really need is 2 of those radio modems. Out of the box they work as a serial line replacement. What you send on one comes out the others serial port.
>
> I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.
>
> I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
>
> Jerry
>

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>
>
>
> _____
> From: Freddy W <frewi80@...>
> To: GPSL @ yahoogroups .com
> Sent: Wed, June 30, 2010 12:01:12 PM
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>
>
> Thanks,
> I will use a USB -to-Serial converter and the software I have from my telescopes
controls....
> I also planning to get a directional yagi antenna for better signal.
> Somebody used it before and it seems to work they said.
> Now what do I need for capturing on the ground with the laptop ?
> Software, hardware ? Are there any pictures on this ?
>
> Freddy
>
> --- In GPSL @ yahoogroups .com , Mark Conner <mconner1@> wrote:
> >
> > http :// www . digi .com/products/model. jsp ?lid=EN& pgid =134& pfid =112& mtid =3341&
amtid =3341&pm=Y
> >
> > This looks like it is a RS-232 device instead of USB . You'll need a
> > RS-232 port on your laptop, or a USB -to-serial converter. You'll have
> > a data stream coming out that will look just like what went into the
> > radio at the other end.
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> > I worked with a hot-air balloon pilot who bought a pair of these
> > radios for tracking a record attempt. Initially we were going to go
> > the APRS route but it wasn't suitable for his requirements. They work
> > pretty well, though you may need a handheld beam to receive the signal
> > at longer distances.
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> > Keep in mind that the 9600-baud mode will not keep up with a full-time
> > 9600-baud input data stream. There is some overhead in the RF
> > encoding and the effective data throughput is less. We found this out
> > the hard way.
> >
> > 73 de Mark N9XTN
> >
> > On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@> wrote:
> > > I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my
equipment list.
> > > I just wonder what divice do you need to plug in into your laptop to get the signal
from the 900 mhz modem ?
> > > Sorry for this question..

> > > Freddy
> > >
> > >
> >
>

7469. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:14:12 UTC
From: Mark Conner
Topic: 7451 Message: 7469

For the Digi radios, you will need two, one on the balloon and one
with the ground station computer. This simply replaces the 20-mile
serial cable with an RF link. No license for the Digi radios
necessary.

- Mark

On Wed, Jun 30, 2010 at 15:36, Freddy W <frewi80@...> wrote:
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> Do I nee a license for that when I use then ?
> Maybe I can get the Oahu Ham guy involved and use his license.
> Just to get legal ..
> Freddy
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> --- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@...> wrote:
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>> I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.
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>> I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
>>
>> Jerry
>>
>>
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>>
>> _____
>> From: Freddy W <frewi80@...>
>> To: GPSL@yahoogroups.com
>> Sent: Wed, June 30, 2010 12:01:12 PM
>> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>>
>>
>> Thanks,
>> I will use a USB-to-Serial converter and the software I have from my telescopes controls....

>> I also planning to get a directional yagi antenna for better signal.
>> Somebody used it before and it seems to work they said.
>> Now what do I need for capturing on the ground with the laptop ?
>> Software, hardware ? Are there any pictures on this ?
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>> Freddy
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>> --- In GPSL@yahoogroups.com, Mark Conner <mconner1@> wrote:
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from the 900 mhz modem ?
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>> > > Freddy
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>

7470. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:17:02 UTC
From: Freddy W
Topic: 7451 Message: 7470

Thanks Mark,
they are on Ebay now.. So I get another one.
Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> For the Digi radios, you will need two, one on the balloon and one
> with the ground station computer. This simply replaces the 20-mile
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> >> From: Freddy W <frewi80@>
> >> To: GPSL@yahoogroups.com
> >> Sent: Wed, June 30, 2010 12:01:12 PM
> >> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

> >>
> >>
> >> Thanks,
> >> I will use a USB-to-Serial converter and the software I have from my telescopes
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7471. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:19:10 UTC
From: wb8elk@aol.com
Topic: 7451 Message: 7471

Freddy,

Yes, you need two of them and they are license-free...the nice thing is that they are bidirectional, so you can actually send commands up to your balloon....in fact you could send a cutdown command to keep your balloon on land by cutting down at a lower altitude. I have used these radios on both balloons and UAV's....I actually was able to fly the UAV using this radio to control the servos (and received telemetry back from it as well)and could fly my UAV from the laptop just like I was in the cockpit.

As was mentioned in a previous email....it says 9600 baud RF rate....you won't get that in practice for actual serial communications due to communications overhead.....so plan on sending it data at 4800 baud or slower for best results.

There is a mode that is much higher RF data rates but the range is greatly reduced in that high speed mode.

And yes, they use RS-232 serial data and requires a USB to RS-232 serial adaptor for modern laptops.

With judicious use of online Balloon Track, you can predict with a fair degree of accuracy where you'd need to launch from to keep your balloon on land....Summer is the best time to keep things in close. Our flight last weekend stayed within 4 miles of the launchsite. In the Winter, it can drift 200 miles downrange.

- Bill Brown WB8ELK

-----Original Message-----
From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 30, 2010 3:36 pm
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
Do I nee a license for that when I use then ?
Maybe I can get the Oahu Ham guy involved and use his license.
Just to get legal ..
Freddy

--- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@...> wrote:
>
> All you really need is 2 of those radio modems. Out of the box they work as a serial line replacement. What you send on one comes out the others serial port.
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> I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the

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> I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
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> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, June 30, 2010 12:01:12 PM
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>
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> Thanks,
> I will use a USB-to-Serial converter and the software I have from my telescopes controls....
> I also planning to get a directional yagi antenna for better signal.
> Somebody used it before and it seems to work they said.
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> > This looks like it is a RS-232 device instead of USB. You'll need a
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> > the hard way.
> >
> > 73 de Mark N9XTN

> >
> > On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@> wrote:
> > > I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my equipment list.
> > > I just wonder what divice do you need to plug in into your laptop to get the signal from the 900 mhz modem ?
> > > Sorry for this question..
> > > Freddy
> > >
> > >
> >
>

7472. Kaymont 600 gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:25:04 UTC
From: wb8elk@aol.com
Topic: 7472 Message: 7472

I noticed that Howard at BASE mentioned that his 600 gram balloon made it to 83,000 feet. I flew one I bought on eBay for $20 that had 9.5 pounds of nozzle lift and made it to 93,000 feet. The ones I got from eBay were just one year old and packaged very nicely. I see that the same fellow is on there still selling them for $20 each for those interested.

- Bill WB8ELK

7473. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:38:00 UTC
From: wb8elk@aol.com
Topic: 7451 Message: 7473

Freddy,

I've also been flying these for years.....started out using them on remote R/C planes and remote vehicles.

You can achieve maximum range with these by picking out a good small yagi gain antenna for the ground station or vehicle and choosing a good vertical duck for the balloon. However, I get the best results by using the Little Wheel design for 900 MHz (an omni horizontally polarized antenna that has no null points underneath the balloon). You can buy these from PC Electronics, the 900 MHz version is called the Nano Wheel.
http://www.hamtv.com/oal.html

If you go this route, make sure to mount your ground antenna so that the elements are horizontal (same plane as the ground). If you can keep up with the balloon, then a patch antenna on your car roof may work as well.

As mentioned by David.....choosing the higher speed radio link of 115k baud will cut down on your maximum range dramatically.

Also, you'll save yourself some grief by buying the SparkFun breakout adapter board that brings out the dual-spaced 2mm pin spacing to a single row of 0.1 inch header pins for easier wiring. Remember to operate these at 5 volts unless the development board comes with it. Keep in mind that it can draw 730 mA on transmit.

http://www.sparkfun.com/commerce/product_info.php?products_id=9596

- Bill Brown WB8ELK

-----Original Message-----
From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 30, 2010 4:17 pm
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Thanks Mark,
they are on Ebay now.. So I get another one.
Freddy

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> For the Digi radios, you will need two, one on the balloon and one
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> serial cable with an RF link. No license for the Digi radios
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> - Mark

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> On Wed, Jun 30, 2010 at 15:36, Freddy W <frewi80@...> wrote:
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> >> From: Freddy W <frewi80@>
> >> To: GPSL@...m
> >> Sent: Wed, June 30, 2010 12:01:12 PM
> >> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
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> >> > 73 de Mark N9XTN
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7474. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:43:13 UTC
From: Jerry Gable
Topic: 7451 Message: 7474

You need 2 of them. These operate on an unlicensed band so you do not need a license.

From: Freddy W <frewi80@hotmail.com>
To: GPSL@yahoogroups.com
Sent: Wed, June 30, 2010 1:36:58 PM
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
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Just to get legal ..
Freddy

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> From: Freddy W <frewi80@...>
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> Sent: Wed, June 30, 2010 12:01:12 PM
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from the 900 mhz modem ?
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> >
>

7475. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:48:40 UTC
From: Freddy W
Topic: 7451 Message: 7475

Thanks guys for all your support.
The FAA just got in touch, I need to call them back for more details,
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> Sent: Wed, June 30, 2010 1:36:58 PM
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7476. Re: Kaymont 600 gram balloons on eBay

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 21:53:42 UTC
From: Freddy W
Topic: 7472 Message: 7476

He still has a lot,
I bought 6.

Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> I noticed that Howard at BASE mentioned that his 600 gram balloon made it to 83,000 feet. I flew one I bought on eBay for $20 that had 9.5 pounds of nozzle lift and made it to 93,000 feet. The ones I got from eBay were just one year old and packaged very nicely. I see that the same fellow is on there still selling them for $20 each for those interested.
>
> - Bill WB8ELK
>

7477. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 22:27:51 UTC
From: wb8elk@aol.com
Topic: 7451 Message: 7477

Also....remember to get the XT09 version....series that's called the 9Xtend.

Freddy...do you have the link to the eBay auction where you bought this device? The X09 series is only 100 milliwatt output power....you need the XT09 series which puts out a watt.

This is the item I would've ordered on eBay that already has the interface board (they mislabeled it as X09 in the title) that includes a 5 volt voltage regulator and brings out the RS-232 serial data lines....they have a few more and it's a good deal since the module by itself without the interface board is usually $180.

http://cgi.ebay.com/MaxStream-X09-900-MHz-Data-Radio-Modem-/260570121060?cmd=ViewItem&pt=PCC_Modems&hash=item3cab308364

- Bill WB8ELK

-----Original Message-----
From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 30, 2010 4:48 pm
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

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7478. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 22:29:51 UTC
From: wb8elk@aol.com
Topic: 7451 Message: 7478

Freddy....use the online Balloon Track prediction program at: www.nearspaceventures.com use 1000 feet/min ascent and 1100 feet/minute descent. Much more accurate than the UWYO program that the MIT folks have in their "Guide".

What town and island are your nearest to?

- Bill WB8ELK

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From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 30, 2010 4:48 pm
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7479. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 23:24:29 UTC
From: frewi80
Topic: 7451 Message: 7479

Hi Bill here the link:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=260575456925&ssPageName=STRK:MEWNX:IT
It seems to be the XT09 - 1Watt, so I hope they are good. Made an offer for $180.
The picture in your post was indeed misleading, I was planning to bit on those.
Hope I made the right choise.
Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
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> Freddy....use the online Balloon Track prediction program at: www.nearspaceventures.com
use 1000 feet/min ascent and 1100 feet/minute descent. Much more accurate than the UWYO
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7480. hawaii high altitude balloon ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 23:45:45 UTC
From: Mark Caviezel
Topic: 7480 Message: 7480

Freddy,
First off, welcome to this list. Many of us on here have been doing this for 10-20 years. But seems like there are more newcomers in the past year than in the past ten years.

Secondly, I will recommend consideration of getting a tech ham license. It is NOT a huge hassle. If you are technically minded, there is a good chance you could pass without even studying. (I did!) General and Extra class licenses are an entirely different matter, but a technician license gives you radio privileges that will really help you operate unmanned balloons.

Thirdly, you should know about something called stratospheric turn around. In the summer, the stratosphere above about 60k feet blows from the east to the west. You could use this to your advantage: launch a balloon with the intention of landing west of the island. Then rely on surface winds (I am presuming they are from the west, really don't know) to blow your payload on to the western shore. Your payload should obviously float and should incorporate a 'sail' feature as well as an antenna for your APRS beacon. Once you learn more about APRS you will likely really want to get your ham license so you can use the system.

A recent flight
http://aprs.fi/?call=N1VG-11&mt=p&z=8&timerange=86400
conducted in southern California clearly shows an active 'turn around' above 64,000 feet. You'll likely want to become proficient at running Bal-Trak or the other balloon trajectory prediction software packages.

There are a number of really cool techniques that could be attempted to enable recovery. Good luck!

best

- Mark ng0x

7481. Re: [GPSL] hawaii high altitude balloon ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-06-30 23:56:33 UTC
From: Joe
Topic: 7480 Message: 7481
Attachments: 1 described; binary payloads are missing from this source WARC

Here is a question.

I never checked into it. ok here in the midwest USA the tropo winds usualy go from the west to the east, and like mark says in the summer the stratosphere has winds that go in the oppisite way. East to west.

What is it like in like the KP4 guys where the tropo winds are east to west mostly. what does the stratosphere do?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 6/30/2010 6:45 PM, Mark Caviezel wrote:
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> Yahoo! Groups Links
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7482. Re: [GPSL] Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 01:00:07 UTC
From: Mike Manes
Topic: 7444 Message: 7482

Hi Keith,

The U of Puerto Rico space grant guys have mastered the maritime recovery.
They wrap each payload in a garbage bag and seal it with duct tape, IIRC
from Ocsar KP4RF's description, and they have a power boat with APRS ready to
launch when the balloon launches. I've cc'ed him on this reply, and I'm sure
Oscar'll happy to give Freddy some tips.

BTW, Freddy should consider getting his tech ham license so he can fly some
decent tracking beacons - it's a WHOLE lot simpler and cheaper to recover the
payloads and SD cards to fly again than it is to try to wring out some decent
images using Part 15 gear. Or to fly ATV with some power in the ham bands.

73 de Mike W5VSI

On 6/30/2010 07:02, Keith Kaiser wrote:
> I received an eMail today from a guy on Oahu, HI that wants to launch a balloon. I did the math and it might just be possible see:<http://nearspaceventures.com/w3Baltrak/CurrMissionPlot.pl>. But lets face it he is more likely to lose the flight than anything. And he is OK with that, but he wants some ideas on how to get photos down from the launch before it goes swimming. And other ideas how to proceed. Seventy miles of island in the mid-Pacific, hell of an opportunity for Great Plainers. Any ideas? I bet a big island launch would be easier at least and with the winds they way they are maybe it'll land on one of the other islands. Cool!
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7483. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 01:08:04 UTC
From: Rodney Sparks
Topic: 7444 Message: 7483

A hydrophobic material like Gore-Tex would work great as a vent. Not much flow rate is needed, as the volume has so much time over which to equalize pressure.

-Rodney

On Wed, Jun 30, 2010 at 1:31 PM, Michael Willett <mw@...> wrote:

>
>
>
> There is a bit of a challenge, the package must be able to breathe air out
> and in for the ascent and descent and then must be water proof and
> self-righting in the water with possibly parachute and shards of balloon
> attached.
>
> My initial thought would be a ball-like enclosure (Styrofoam ball) top
> weighted with batteries and goods, with the 1/4 wave whip sticking out of
> the bottom. The 1/4 whip antenna would be downward pointing for ascent and
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> K5NOT
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> Freddy
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> --- In GPSL@yahoogroups.com <GPSL%40yahoogroups.com>, Joe <nss@...><nss@...>wrote:
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> >

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> > >
> > > Mark Garrett
> > > KA9SZX
> > >
> > >
> > > --
> > > *From:* Freddy W <frewi80@...> <frewi80@...>
> > > *To:* GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > > *Sent:* Wed, June 30, 2010 12:46:26 PM
> > > *Subject:* [GPSL] Re: Need some ideas
> > >
> > > Thanks guys for your reaction...
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> <mailto:GPSL%40yahoogroups.com> <GPSL%40yahoogroups.com>, Mark

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> > > >
> > > > 73 de Mark N9XTN
> > > >
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7484. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 03:22:08 UTC
From: Mike Manes
Topic: 7444 Message: 7484

A Tyvek membrane can breathe air (slowly) but is impermeable to liquid water.
This is the stuff that those slick-feeling mail envelopes that need a knife
to open are made of.
73 de Mike W5VSI

On 6/30/2010 14:31, Michael Willett wrote:
>
>
>
> There is a bit of a challenge, the package must be able to breathe air out and
> in for the ascent and descent and then must be water proof and self-righting
> in the water with possibly parachute and shards of balloon attached.
>
> My initial thought would be a ball-like enclosure (Styrofoam ball) top
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7485. Re: [GPSL] Re: Need some ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 03:37:56 UTC
From: Rodney Sparks
Topic: 7444 Message: 7485

There you go. A piece of parachute fabric (or something similar) with
Scotch Guard applied to it would probably also work well.

-r

On Wed, Jun 30, 2010 at 8:22 PM, Mike Manes <mrmanes@...> wrote:

> A Tyvek membrane can breathe air (slowly) but is impermeable to liquid
> water.
> This is the stuff that those slick-feeling mail envelopes that need a knife
> to open are made of.
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<mailto:GPSL%40yahoogroups.com<GPSL%2540yahoogroups.com>
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> > A. Einstein
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >

7486. Re: hawaii high altitude balloon ideas

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 04:08:41 UTC
From: Freddy W
Topic: 7480 Message: 7486

Thanks Marc for the welcome.
I will look into that license.
And you're right about that stratospheric turn around at around 60.000 feet, I make the balloon trajectory calculation most every day now and you can see it very clearly in each projected forecast, I might be lucky.
Right now I will follow up every post and link to get as much information as need.
Thanks Guys.

Freddy

--- In GPSL@yahoogroups.com, Mark Caviezel <kmcaviezel@...> wrote:
>
> Freddy,
> First off, welcome to this list. Many of us on here have been doing this for 10-20 years. But seems like there are more newcomers in the past year than in the past ten years.
>
> Secondly, I will recommend consideration of getting a tech ham license. It is NOT a huge hassle. If you are technically minded, there is a good chance you could pass without even studying. (I did!) General and Extra class licenses are an entirely different matter, but a technician license gives you radio privileges that will really help you operate unmanned balloons.
>
> Thirdly, you should know about something called stratospheric turn around. In the summer, the stratosphere above about 60k feet blows from the east to the west. You could use this to your advantage: launch a balloon with the intention of landing west of the island. Then rely on surface winds (I am presuming they are from the west, really don't know) to blow your payload on to the western shore. Your payload should obviously float and should incorporate a 'sail' feature as well as an antenna for your APRS beacon. Once you learn more about APRS you will likely really want to get your ham license so you can use the system.
>
> A recent flight
> http://aprs.fi/?call=N1VG-11&mt=p&z=8&timerange=86400
> conducted in southern California clearly shows an active 'turn around' above 64,000 feet. You'll likely want to become proficient at running Bal-Trak or the other balloon trajectory prediction software packages.
>
> There are a number of really cool techniques that could be attempted to enable recovery. Good luck!
>
> best
>
> - Mark ng0x
>

7487. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 05:24:29 UTC
From: Freddy W
Topic: 7451 Message: 7487

Hi Bill,
I live on Oahu, Honolulu Island
In Waipahu 96797
Coordinates:
21.3912°N
158.0248°W
Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Freddy....use the online Balloon Track prediction program at: www.nearspaceventures.com use 1000 feet/min ascent and 1100 feet/minute descent. Much more accurate than the UWYO program that the MIT folks have in their "Guide".
>
> What town and island are your nearest to?
>
> - Bill WB8ELK
>
>
>
>
>
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>
> -----Original Message-----
> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Jun 30, 2010 4:48 pm
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>
>
>
>
> Thanks guys for all your support.
> The FAA just got in touch, I need to call them back for more details,
> I just did a 'Balloon Trajectory forecast' again and it lands in the ocean... again, so I will concentrate on this landing plan for now.
>
> Freddy
>
> --- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@> wrote:
> >
> > You need 2 of them. These operate on an unlicensed band so you do not need a license.
> >

> >
> >
> >
> > _____
> > From: Freddy W <frewi80@>
> > To: GPSL@yahoogroups.com
> > Sent: Wed, June 30, 2010 1:36:58 PM
> > Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
> >
> >
> > So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
> > Do I nee a license for that when I use then ?
> > Maybe I can get the Oahu Ham guy involved and use his license.
> > Just to get legal ..
> > Freddy
> >
> > --- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@> wrote:
> > >
> > > All you really need is 2 of those radio modems. Out of the box they work as a serial line replacement. What you send on one comes out the others serial port.
> > >
> > > I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.
> > >
> > > I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
> > >
> > > Jerry
> > >
> > >
> > >
> > >
> > >
> > > _____
> > > From: Freddy W <frewi80@>
> > > To: GPSL@yahoogroups.com
> > > Sent: Wed, June 30, 2010 12:01:12 PM
> > > Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
> > >
> > >
> > > Thanks,
> > > I will use a USB-to-Serial converter and the software I have from my telescopes controls....
> > > I also planning to get a directional yagi antenna for better signal.
> > > Somebody used it before and it seems to work they said.
> > > Now what do I need for capturing on the ground with the laptop ?
> > > Software, hardware ? Are there any pictures on this ?

> > >
> > > Freddy
> > >
> > > --- In GPSL@yahoogroups.com, Mark Conner <mconner1@> wrote:
> > > >
> > > >
http://www.digi.com/products/model.jsp?lid=EN&pgid=134&pfid=112&mtid=3341&amtid=3341&pm=Y
> > > >
> > > > This looks like it is a RS-232 device instead of USB. You'll need a
> > > > RS-232 port on your laptop, or a USB-to-serial converter. You'll have
> > > > a data stream coming out that will look just like what went into the
> > > > radio at the other end.
> > > >
> > > > I worked with a hot-air balloon pilot who bought a pair of these
> > > > radios for tracking a record attempt. Initially we were going to go
> > > > the APRS route but it wasn't suitable for his requirements. They work
> > > > pretty well, though you may need a handheld beam to receive the signal
> > > > at longer distances.
> > > >
> > > > Keep in mind that the 9600-baud mode will not keep up with a full-time
> > > > 9600-baud input data stream. There is some overhead in the RF
> > > > encoding and the effective data throughput is less. We found this out
> > > > the hard way.
> > > >
> > > > 73 de Mark N9XTN
> > > >
> > > > On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@> wrote:
> > > > > I just bought a XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modem to add on my
equipment list.
> > > > > I just wonder what divice do you need to plug in into your laptop to get the
signal from the 900 mhz modem ?
> > > > > Sorry for this question..
> > > > > Freddy
> > > > >
> > > > >
> > > >
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7488. Re: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 08:15:20 UTC
From: wb8elk@aol.com
Topic: 7451 Message: 7488

Hi Freddy,

That eBay link you sent me is indeed the correct XT09 unit that puts out one watt so you'll be ok with that one.

- Bill

-----Original Message-----
From: frewi80 <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jun 30, 2010 6:24 pm
Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Hi Bill here the link:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=260575456925&ssPageName=STRK:MEWNX:IT
It seems to be the XT09 - 1Watt, so I hope they are good. Made an offer for $180.
The picture in your post was indeed misleading, I was planning to bit on those.
Hope I made the right choise.
Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Freddy....use the online Balloon Track prediction program at: www.nearspaceventures.com
use 1000 feet/min ascent and 1100 feet/minute descent. Much more accurate than the UWYO
program that the MIT folks have in their "Guide".
>
> What town and island are your nearest to?
>
> - Bill WB8ELK
>
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>
> -----Original Message-----
> From: Freddy W <frewi80@...>
> To: GPSL@yahoogroups.com
> Sent: Wed, Jun 30, 2010 4:48 pm
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
>
>
>

>
> Thanks guys for all your support.
> The FAA just got in touch, I need to call them back for more details,
> I just did a 'Balloon Trajectory forecast' again and it lands in the ocean... again, so I will concentrate on this landing plan for now.
>
> Freddy
>
> --- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@> wrote:
> >
> > You need 2 of them. These operate on an unlicensed band so you do not need a license.
> >
> >
> >
> >
> > _____
> > From: Freddy W <frewi80@>
> > To: GPSL@yahoogroups.com
> > Sent: Wed, June 30, 2010 1:36:58 PM
> > Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
> >
> >
> > So I need two of these modems ? One in the balloon and one that goes into the serial (USB) of my laptop, pleade do confirn this.
> > Do I nee a license for that when I use then ?
> > Maybe I can get the Oahu Ham guy involved and use his license.
> > Just to get legal ..
> > Freddy
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> > > I use them for telemetry data on my balloons. For the ground station I put one in a small box with a serial to USB converter and 5V regulator. I hook that to my PC to receive the data.
> > >
> > > I have a couple of circularly polarized patch antennas that I use. They are actually RFID antennas. Some of the Hams can probably give you a lot better advice on the antenna choices. I am interested in that topic as well.
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> > > Jerry
> > >
> > >
> > >
> > >
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> > > _____
> > > From: Freddy W <frewi80@>

> > > To: GPSL@yahoogroups.com
> > > Sent: Wed, June 30, 2010 12:01:12 PM
> > > Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
> > >
> > >
> > > Thanks,
> > > I will use a USB-to-Serial converter and the software I have from my telescopes
controls....
> > > I also planning to get a directional yagi antenna for better signal.
> > > Somebody used it before and it seems to work they said.
> > > Now what do I need for capturing on the ground with the laptop ?
> > > Software, hardware ? Are there any pictures on this ?
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> > > Freddy
> > >
> > > --- In GPSL@yahoogroups.com, Mark Conner <mconner1@> wrote:
> > > >
> > > >
http://www.digi.com/products/model.jsp?lid=EN&pgid=134&pfid=112&mtid=3341&amtid=3341&pm=Y
> > > >
> > > > This looks like it is a RS-232 device instead of USB. You'll need a
> > > > RS-232 port on your laptop, or a USB-to-serial converter. You'll have
> > > > a data stream coming out that will look just like what went into the
> > > > radio at the other end.
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> > > > I worked with a hot-air balloon pilot who bought a pair of these
> > > > radios for tracking a record attempt. Initially we were going to go
> > > > the APRS route but it wasn't suitable for his requirements. They work
> > > > pretty well, though you may need a handheld beam to receive the signal
> > > > at longer distances.
> > > >
> > > > Keep in mind that the 9600-baud mode will not keep up with a full-time
> > > > 9600-baud input data stream. There is some overhead in the RF
> > > > encoding and the effective data throughput is less. We found this out
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> > > > 73 de Mark N9XTN
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signal from the 900 mhz modem ?
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> >

>

7489. Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 09:28:07 UTC
From: Freddy W
Topic: 7451 Message: 7489

Hi Bill,
That a relief Bill, I bought two for $200 each, (offer).
I'm going thru a lot of websites to get all the information I need and more, I'm making a planning step by step to get things right.
The original plan was much simpler...

I use the software to make traject predictions, do it a few times a day and compare that with the google predictions from another software, they are close.. But you cam make more input in the nearspaceventures one.

Freddy

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
>
> Hi Freddy,
>
> That eBay link you sent me is indeed the correct XT09 unit that puts out one watt so you'll be ok with that one.
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> - Bill
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> To: GPSL@yahoogroups.com
> Sent: Wed, Jun 30, 2010 6:24 pm
> Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
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> > Freddy....use the online Balloon Track prediction program at:
www.nearspaceventures.com use 1000 feet/min ascent and 1100 feet/minute descent. Much more
accurate than the UWYO program that the MIT folks have in their "Guide".
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> > What town and island are your nearest to?
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> > - Bill WB8ELK
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> > From: Freddy W <frewi80@>
> > To: GPSL@yahoogroups.com
> > Sent: Wed, Jun 30, 2010 4:48 pm
> > Subject: [GPSL] Re: XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems - Talk
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> > Thanks guys for all your support.
> > The FAA just got in touch, I need to call them back for more details,
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> > > To: GPSL@yahoogroups.com
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(USB) of my laptop, pleade do confirn this.
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> > > > Thanks,
> > > > I will use a USB-to-Serial converter and the software I have from my telescopes controls....
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> > > > >
> > > > > This looks like it is a RS-232 device instead of USB. You'll need a
> > > > > RS-232 port on your laptop, or a USB-to-serial converter. You'll have
> > > > > a data stream coming out that will look just like what went into the
> > > > > radio at the other end.
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> > > > > I worked with a hot-air balloon pilot who bought a pair of these
> > > > > radios for tracking a record attempt. Initially we were going to go
> > > > > the APRS route but it wasn't suitable for his requirements. They work

> > > > > pretty well, though you may need a handheld beam to receive the signal
> > > > > at longer distances.
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> > > > > Keep in mind that the 9600-baud mode will not keep up with a full-time
> > > > > 9600-baud input data stream. There is some overhead in the RF
> > > > > encoding and the effective data throughput is less. We found this out
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> > > > > 73 de Mark N9XTN
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> > > > > On Wed, Jun 30, 2010 at 13:28, Freddy W <frewi80@> wrote:
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> > > > > > Sorry for this question..
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7490. coupon code for GPSL shirt orders

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 16:03:33 UTC
From: Mark Conner
Topic: 7490 Message: 7490

From a Zazzle promotional e-mail received earlier today - expires July 5.

73 de Mark N9XTN

* 17.76% of the net sale price will be deducted when the coupon code ZAZZLEUSAUSA is applied at checkout. For most products, the net sale price is the price of the product (excluding shipping and taxes). For Zazzle Custom Stamps, the net sale price is the difference between the price of the Zazzle Custom Stamps (excluding shipping and taxes) and the face value of the postage. Offer is valid from July 1, 2010 through July 5, 2010 at 11:59pm PDT. This offer does not apply to past purchases and may not be combined with any other Zazzle promotional or volume discount offers. If a volume discount applies to your order, you will receive either the discount set forth in this offer or the standard volume discount, whichever is greater. Offer valid on Zazzle.com only.

7491. Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 21:50:35 UTC
From: Freddy W
Topic: 7491 Message: 7491

Still waiting from some word of the FAA,
Also updating my Balloon project every day and goin thru a lot of websites to find the proper information.
Need to find some answers for:

1) Proper devices for Balloon inflatiob or does it come with the Helium tank rental ?

2) Also software that need to be installed in the laptop to capture the images coming from the balloons transmitter.

3)What is the proper way to attach the parachute to the balloon ?

4)Even if th balloon is not all the way inflated, what is the max ceiling hight ?

5)Proper antenna for capturing the signal at 100.000 feet.

6)In Hawaii there will be 5% change to recover the Balloon, lots of mountain ranges, Ocean an unaccesable terrain and you might get shot.

Hope to find all these answer.

Freddy

7492. Re: [GPSL] Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-01 22:04:34 UTC
From: Mark Garrett
Topic: 7491 Message: 7492

Still waiting from some word of the FAA,
Also updating my Balloon project every day and goin thru a lot of websites to find the proper information.
Need to find some answers for:

1) Proper devices for Balloon inflatiob or does it come with the Helium tank rental ?
You will probably need to make yourself a balloon filler, usually a hose with fittings to connect either to a regulator or directly to the tank and PVC with hook to hold either weights for lift or a hanging scale.

2) Also software that need to be installed in the laptop to capture the images coming from the balloons transmitter.

3)What is the proper way to attach the parachute to the balloon ?
Most attach it in the train about 20 feet or more lead from the balloon. You do not want the balloon to become entangled in the parachute. Others will comment.

4)Even if th balloon is not all the way inflated, what is the max ceiling hight ?
Depends. Chances are good that you would not stay true to your track as you would not lift at the proper altitude and it would lengthen out the flight. You could also create a floater that does not climb up enough to pop when needed. It could come down either in darkness or take several hours for UV to work on the balloon and let it pop.

5)Proper antenna for capturing the signal at 100.000 feet.

6)In Hawaii there will be 5% change to recover the Balloon, lots of mountain ranges, Ocean an unaccesable terrain and you might get shot.
Freddy: Do you have Pirates in the Islands?

Mark Garrett
KA9SZX

7493. Re: [GPSL] Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 01:53:27 UTC
From: L. Paul Verhage
Topic: 7491 Message: 7493

I've written a book on near space. It's a free download at Parallax.

http://www.parallax.com/Resources/CustomerApplications/Science/NearSpace/tabid/567/Default.aspx

Paul
On Thu, Jul 1, 2010 at 5:04 PM, Mark Garrett <ka9szx@...> wrote:

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>
> Still waiting from some word of the FAA,
> Also updating my Balloon project every day and goin thru a lot of websites
> to find the proper information.
> Need to find some answers for:
>
> 1) Proper devices for Balloon inflatiob or does it come with the Helium
> tank rental ?
>
> You will probably need to make yourself a balloon filler, usually a hose
> with fittings to connect either to a regulator or directly to the tank and
> PVC with hook to hold either weights for lift or a hanging scale.
>
>
>
> 2) Also software that need to be installed in the laptop to capture the
> images coming from the balloons transmitter.
>
> 3)What is the proper way to attach the parachute to the balloon ?
>
> Most attach it in the train about 20 feet or more lead from the balloon.
> You do not want the balloon to become entangled in the parachute. Others
> will comment.
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> 4)Even if th balloon is not all the way inflated, what is the max ceiling
> hight ?
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> Depends. Chances are good that you would not stay true to your track as
> you would not lift at the proper altitude and it would lengthen out the
> flight. You could also create a floater that does not climb up enough to

> pop when needed. It could come down either in darkness or take several
> hours for UV to work on the balloon and let it pop.
>
>
>
> 5)Proper antenna for capturing the signal at 100.000 feet.
>
> 6)In Hawaii there will be 5% change to recover the Balloon, lots of
> mountain ranges, Ocean an unaccesable terrain and you might get shot.
>
> Freddy: Do you have Pirates in the Islands?
>
>
> Mark Garrett
>
> KA9SZX
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Onwards and Upwards,
Paul

7494. Re: [GPSL] Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 02:19:52 UTC
From: Mike Manes
Topic: 7491 Message: 7494

Hi Freddy,

Re ur #4) Download a copy of LiftWin 041 from:

http://www.eoss.org/dnload/liftw-041.zip

It's a simple and very useful tool for calculating your fill
and burst altitude given a chosen balloon, neck load and launch
site conditions. I'd recommend filling for at least1000 fpm to avoid
a floater or more if you want to keep your downrange distance shorter
at the expense of lower burst altitude.

73 de Mike W5VSI

On 7/1/2010 15:50, Freddy W wrote:
> Still waiting from some word of the FAA,
> Also updating my Balloon project every day and goin thru a lot of websites to find the proper information.
> Need to find some answers for:
>
> 1) Proper devices for Balloon inflatiob or does it come with the Helium tank rental ?
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> 2) Also software that need to be installed in the laptop to capture the images coming from the balloons transmitter.
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> 6)In Hawaii there will be 5% change to recover the Balloon, lots of mountain ranges, Ocean an unaccesable terrain and you might get shot.
>
> Hope to find all these answer.
>
> Freddy
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7495. Winona Minnesota Field Day Balloon Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 15:00:42 UTC
From: Joe
Topic: 7495 Message: 7495

Morning Kyle,

I'm copying this message also to one of the most active balloon lists out there.

Forgive me if you already know all about this. There are soo many ballooning groups out there now it's hard to keep track of them all anymore as to compared to when this all started over 20 years ago when there was only maybe six groups.

If you are fully aware of these lists or the other groups I apologize. I also have been thought of as being a newbie even tho I have been doing this for over 20 years.

I have thought of several times, but just never done it was to fly a cluster balloon setup like you did here. Thinking fill them all equally, or even fill one main balloon to be neutral buoyant. and then add one smaller one that will provide the positive lift needed to climb. And size the two balloons so that for sure the smaller one pops first, then causing the whole system to become neutral.

I just never tried either way. but what you have done below did just that and pretty cool dude!

You should submit this to the record keeper for a pretty good distance flight! For the rest of the gang here is a video Kyle made of his launch

http://www.youtube.com/watch?v=I4GwirAR3_E&

and below is a message he just sent out describing what happened. Pretty cool dude!

and Again Congratz! on the long distance flight!

Joe WB9SBD
Near Space Sciences KB9KHO

On 7/2/2010 7:31 AM, Kyle Marek-Spartz wrote:
> (This is something I wrote about the balloon launch and sent to
> various coworkers and other contacts)
>
> This years Field Day in Winona with the Winona Area Radio Club (W?NE)
> was an interesting one.
>
> The plan was this: Have a display table set up with electronics and
> pictures to share, a small (3 ft. diameter) balloon on a tether with
> real time weather data being relayed, and then later in the day have a
> balloon launch that was supposed to land near Galesville, WI (30 miles

> East from Winona).
>
> What happened was this:
>
> Due to taking the train to Winona, I was unable to take helium with
> me, so I planned to fill up two balloons at Hyvee, a grocery store.
> Due to a combination of lower grade helium than what I was basing my
> balloon lift calculations and an inflator who was unfamiliar with how
> large the balloons should be, the balloons may not have had enough
> helium in them.
>
> Through out the day, one of the balloons popped (About 3:30 pm) due to
> winds pushing the tether low to the ground. Grass did it in. The
> thought was no big deal since there was still a spare. However when it
> came time for launch at 5pm, the balloon would not lift it off the
> ground. I then went back to Hyvee and filled two more balloons. After
> adding this additional lift, the balloons lifted just fine and we cut
> the tether around 6 pm and sent the AnaSonde 3-M up.
> (http://www.anasphere.com/multipurpose_radiosonde.php)
>
> We were able to listen to its transmissions on the radio for a good
> while from the launch site. My sister, cousin, and I packed up and
> drove towards Galesville, WI. Along the way we stopped at various
> points attempting to visually see the balloon or to hear it on the
> radio. We did not hear or see anything significant, however, this
> wasn't any worse than my past experiences with these packages.
>
> That night I was at the Field Day site through a reasonable storm.
> There was a gust of wind that knocked down a few antennas, and was
> causing the rain to go sideways. I was outside for about 15 seconds
> and my clothes were soaked head to toe.
>
> I got a call the next morning about the balloon but I was at home
> where I had no cell signal, so the call didn't show up in my missed
> call. The voice mail message did not have a phone number to call back,
> nor did my voice mail system tell me the number. I spent some time on
> the phone with my cell phone provider trying to figure it out, but
> they were unable to help. The message said that they were located in
> "Herndon, the Mandata area" which did not mean much to me. I looked
> online for both and found a Herndon in Virginia and Pennsylvania, as
> well as a Mandata in the UK and one right near the Herndon in
> Pennsylvania. So I began to think it was there, but these balloons and
> packages typically only go ~30 miles (depending on wind conditions),
> so it seemed unlikely.
>
> Well, thankfully I got another call on Tuesday and was able to get
> ahold of someone this time. It was for sure in Herndon, Pennsylvania.
> It had arrived in the "recipient's" backyard approximately 11 am
> Eastern time (10 am Central). When they had left for church it was not
> there, and when they came back it was. The distance between the launch

> site and Herndon as the crow flies is around 780 miles. This put the
> flight time at 16 hours. From there I calculated an average speed of
> 48.75 mph.
>
> My speculation was that with three balloons on the flight it would
> rise fast until the most inflated balloon popped, and then it would
> still rise until the second most inflated balloon popped. However, at
> that point, the third balloon would not have enough lift to reach an
> altitude where it would pop and then it would begin a slow descent. I
> thought that the balloon which was filled in the morning would be at
> the landing site. Well, a balloon filled later in the day was at the
> landing site, but the rest of the theory still stands as an
> explanation. We happened to be at the right altitude with these
> balloons to have strong winds. At higher altitudes the horizontal
> movement of our balloons taper off, as there is less wind. These
> factors together caused the flight to be much longer than expected.
>
> One thing to keep in mind is the AnaSondes are designed to be
> "disposable." We don't get calls back on them often, so we were
> extremely lucky to have it set somewhat of a distance record for our
> team, and to have it recovered. Thanks to all who helped, from my
> co-workers, my family who came to support us, WARC, SARA for hosting
> the rest of the team, and most of all, Mike and Jill Reed of Herndon,
> PA. We are working on getting the package shipped back.
>
> Thanks to Dave, KB9EWG for filming my (rather unrehearsed)
> explanations of the various things that we do on the ballooning team.
> You can watch that video on YouTube:
> http://www.youtube.com/watch?v=3DI4GwirAR3_E
>
> Check out some pictures and commentary on my on again, off again blog:
> http://zeckalpha.org/winona-field-day
>
> For the Pennsylvanians: Here is Winona, MN on a map:
> http://maps.google.com/maps?q=Winona+MN
>
> For the Minnesotans: Here is Herndon, PA on a map:
> http://maps.google.com/maps?q=Herndon+PA
>
> Thanks to all, again. It really was a fun weekend!
>
> 73,
>
> Kyle Marek-Spartz - KD?GTK
> _____
> WARC mailing list
> WARC@...
> http://lists.w0ne.org/cgi-bin/mailman/listinfo/warc
>
>

>
>

7496. OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 19:43:52 UTC
From: Pete Lilja
Topic: 7496 Message: 7496

I just received a used Yeasu VX-2 HT and cannot find in the documentation what the UHF "low" power output wattage is. It lists the "High" setting as up to 1.5 w with the supplied battery but not the low end output.

I suppose most people are concerned about the max power - yet I know from experience that .5 (1/2) watt through our roll-up J-pole is very adequate for HAB flights and that's how I plan to use this VX-2.

Can anyone help? Is anyone else using a VX-xx in their HAB flights?

Pete
KC0GPB

7497. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 19:46:13 UTC
From: Roger Hammond
Topic: 7496 Message: 7497

If I remember correctly it is 100 mW.
Roger KC0MWM

Sent from my Motorola Droid

On Jul 2, 2010 2:44 PM, "Pete Lilja" <plilja@...> wrote:

I just received a used Yeasu VX-2 HT and cannot find in the documentation what the UHF "low" power output wattage is. It lists the "High" setting as up to 1.5 w with the supplied battery but not the low end output.

I suppose most people are concerned about the max power - yet I know from experience that .5 (1/2) watt through our roll-up J-pole is very adequate for HAB flights and that's how I plan to use this VX-2.

Can anyone help? Is anyone else using a VX-xx in their HAB flights?

Pete
KC0GPB

7498. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 19:51:26 UTC
From: Mark Conner
Topic: 7496 Message: 7498

*TRANSMITTER * 0
RF Power Output:
1.5W (@ 3.7 V FNB-82LI 144 MHz)
0
3.0W (@ 6 V EXT DC Input 144 MHz)
0
1.0W (@ 3.7 V FNB-82LI 430 MHz)
0
2.0W (@ 6 V EXT DC Input 430 MHz)
Modulation Type:
Variable Reactance
Maximum Deviation:
±5 kHz
Spurious Emission:
At least 50 dB below carrier
Microphone Impedance:
2 k Ohm

This is higher than I remember it, but I often get the specs confused with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In any case, it works fine with a rubber duck as an APRS beacon.

73 de Mark N9XTN

On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@cfu.net> wrote:

>
>
> I just received a used Yeasu VX-2 HT and cannot find in the documentation
> what the UHF "low" power output wattage is. It lists the "High" setting as
> up to 1.5 w with the supplied battery but not the low end output.
>
> I suppose most people are concerned about the max power - yet I know from
> experience that .5 (1/2) watt through our roll-up J-pole is very adequate
> for HAB flights and that's how I plan to use this VX-2.
>
> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>
> Pete
> KC0GPB
>
>
>

7499. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 19:53:56 UTC
From: Pete Lilja
Topic: 7496 Message: 7499

Am I missing it or does this chart NOT show the low power setting output on the 82LI battery on UHF?

Pete
KC0GPB

On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@...> wrote:

>
>
> *TRANSMITTER * 0
> RF Power Output:
> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
> 0
> 3.0W (@ 6 V EXT DC Input 144 MHz)
> 0
> 1.0W (@ 3.7 V FNB-82LI 430 MHz)
> 0
> 2.0W (@ 6 V EXT DC Input 430 MHz)
> Modulation Type:
> Variable Reactance
> Maximum Deviation:
> ±5 kHz
> Spurious Emission:
> At least 50 dB below carrier
> Microphone Impedance:
> 2 k Ohm
>
> This is higher than I remember it, but I often get the specs confused with
> the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In any
> case, it works fine with a rubber duck as an APRS beacon.
>
> 73 de Mark N9XTN
>
>
> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> I just received a used Yeasu VX-2 HT and cannot find in the documentation
>> what the UHF "low" power output wattage is. It lists the "High" setting as
>> up to 1.5 w with the supplied battery but not the low end output.
>>
>> I suppose most people are concerned about the max power - yet I know from
>> experience that .5 (1/2) watt through our roll-up J-pole is very adequate
>> for HAB flights and that's how I plan to use this VX-2.

>>
>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>
>> Pete
>> KC0GPB
>>
>>
>>
>
>

7500. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 20:06:00 UTC
From: Roger Hammond
Topic: 7496 Message: 7500

Pete,

I found it on page 14 of the manual. It is 100 mW on battery power.

Rog KC0MWM

On Fri, Jul 2, 2010 at 2:53 PM, Pete Lilja <plilja@...> wrote:

>
>
> Am I missing it or does this chart NOT show the low power setting output on
> the 82LI battery on UHF?
>
> Pete
> KC0GPB
>
>
> On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> *TRANSMITTER * 0
>> RF Power Output:
>> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
>> 0
>> 3.0W (@ 6 V EXT DC Input 144 MHz)
>> 0
>> 1.0W (@ 3.7 V FNB-82LI 430 MHz)
>> 0
>> 2.0W (@ 6 V EXT DC Input 430 MHz)
>> Modulation Type:
>> Variable Reactance
>> Maximum Deviation:
>> ±5 kHz
>> Spurious Emission:
>> At least 50 dB below carrier
>> Microphone Impedance:
>> 2 k Ohm
>>
>> This is higher than I remember it, but I often get the specs confused
>> with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In
>> any case, it works fine with a rubber duck as an APRS beacon.
>>
>> 73 de Mark N9XTN
>>
>>

>> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:
>>
>>>
>>>
>>> I just received a used Yeasu VX-2 HT and cannot find in the documentation
>>> what the UHF "low" power output wattage is. It lists the "High" setting as
>>> up to 1.5 w with the supplied battery but not the low end output.
>>>
>>> I suppose most people are concerned about the max power - yet I know from
>>> experience that .5 (1/2) watt through our roll-up J-pole is very adequate
>>> for HAB flights and that's how I plan to use this VX-2.
>>>
>>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>>
>>> Pete
>>> KC0GPB
>>>
>>>
>>>
>>
>
>
>
>

7501. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 20:07:57 UTC
From: compassing
Topic: 7496 Message: 7501

Pete,

The RF out for the FNB82-LI is listed on page 75 (Specs page) of the manual.

Here's a link to the entire VX-2R manual.<http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&ProdID=870&DivisionID>

If the hyperlink doesn't work, here's the URL

http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&ProdID=870&DivisionID

HTH
James

On Fri, Jul 2, 2010 at 12:53 PM, Pete Lilja <plilja@...> wrote:

>
>
> Am I missing it or does this chart NOT show the low power setting output on
> the 82LI battery on UHF?
>
> Pete
> KC0GPB
>
>
> On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> *TRANSMITTER * 0
>> RF Power Output:
>> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
>> 0
>> 3.0W (@ 6 V EXT DC Input 144 MHz)
>> 0
>> 1.0W (@ 3.7 V FNB-82LI 430 MHz)
>> 0
>> 2.0W (@ 6 V EXT DC Input 430 MHz)
>> Modulation Type:
>> Variable Reactance
>> Maximum Deviation:
>> ±5 kHz
>> Spurious Emission:
>> At least 50 dB below carrier
>> Microphone Impedance:
>> 2 k Ohm

>>
>> This is higher than I remember it, but I often get the specs confused
>> with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In
>> any case, it works fine with a rubber duck as an APRS beacon.
>>
>> 73 de Mark N9XTN
>>
>>
>> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:
>>
>>>
>>>
>>> I just received a used Yeasu VX-2 HT and cannot find in the documentation
>>> what the UHF "low" power output wattage is. It lists the "High" setting as
>>> up to 1.5 w with the supplied battery but not the low end output.
>>>
>>> I suppose most people are concerned about the max power - yet I know from
>>> experience that .5 (1/2) watt through our roll-up J-pole is very adequate
>>> for HAB flights and that's how I plan to use this VX-2.
>>>
>>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>>
>>> Pete
>>> KC0GPB
>>>
>>>
>>>
>>
>
>

7502. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 20:11:27 UTC
From: compassing
Topic: 7496 Message: 7502

Oh yeah, the LOW is on page 14
J

On Fri, Jul 2, 2010 at 1:07 PM, compassing <compassing@...> wrote:

> Pete,
>
> The RF out for the FNB82-LI is listed on page 75 (Specs page) of the
> manual.
>
> Here's a link to the entire VX-2R manual.<http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&ProdID=870&DivisionID>
>
> If the hyperlink doesn't work, here's the URL
>
>
> http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&ProdID=870&DivisionID
>
> HTH
> James
>
>
>
> On Fri, Jul 2, 2010 at 12:53 PM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> Am I missing it or does this chart NOT show the low power setting output
>> on the 82LI battery on UHF?
>>
>> Pete
>> KC0GPB
>>
>>
>> On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@...> wrote:
>>
>>>
>>>
>>> *TRANSMITTER * 0
>>> RF Power Output:
>>> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
>>> 0
>>> 3.0W (@ 6 V EXT DC Input 144 MHz)
>>> 0
>>> 1.0W (@ 3.7 V FNB-82LI 430 MHz)

>>> 0
>>> 2.0W (@ 6 V EXT DC Input 430 MHz)
>>> Modulation Type:
>>> Variable Reactance
>>> Maximum Deviation:
>>> ±5 kHz
>>> Spurious Emission:
>>> At least 50 dB below carrier
>>> Microphone Impedance:
>>> 2 k Ohm
>>>
>>> This is higher than I remember it, but I often get the specs confused
>>> with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In
>>> any case, it works fine with a rubber duck as an APRS beacon.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:
>>>
>>>>
>>>>
>>>> I just received a used Yeasu VX-2 HT and cannot find in the
>>>> documentation what the UHF "low" power output wattage is. It lists the
>>>> "High" setting as up to 1.5 w with the supplied battery but not the low end
>>>> output.
>>>>
>>>> I suppose most people are concerned about the max power - yet I know
>>>> from experience that .5 (1/2) watt through our roll-up J-pole is very
>>>> adequate for HAB flights and that's how I plan to use this VX-2.
>>>>
>>>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>>>
>>>> Pete
>>>> KC0GPB
>>>>
>>>>
>>>>
>>>
>>
>>
>
>

7503. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 20:39:17 UTC
From: Pete Lilja
Topic: 7496 Message: 7503

Thanks, all,

And yep. 100 mW. That'll be just fine for a HAB...

Pete

On Fri, Jul 2, 2010 at 3:11 PM, compassing <compassing@...> wrote:

>
>
> Oh yeah, the LOW is on page 14
> J
>
>
> On Fri, Jul 2, 2010 at 1:07 PM, compassing <compassing@...> wrote:
>
>> Pete,
>>
>> The RF out for the FNB82-LI is listed on page 75 (Specs page) of the
>> manual.
>>
>> Here's a link to the entire VX-2R manual.<http://www.yaesu.com/indexVS.cfm?cmd=DisplayP
roducts&ProdCatID=111&ProdID=870&DivisionID>
>>
>> If the hyperlink doesn't work, here's the URL
>>
>>
>>
http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&ProdID=870&DivisionID
>>
>> HTH
>> James
>>
>>
>>
>> On Fri, Jul 2, 2010 at 12:53 PM, Pete Lilja <plilja@cfu.net> wrote:
>>
>>>
>>>
>>> Am I missing it or does this chart NOT show the low power setting output
>>> on the 82LI battery on UHF?
>>>
>>> Pete
>>> KC0GPB
>>>
>>>

>>> On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@gmail.com> wrote:
>>>
>>>>
>>>>
>>>> *TRANSMITTER * 0
>>>> RF Power Output:
>>>> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
>>>> 0
>>>> 3.0W (@ 6 V EXT DC Input 144 MHz)
>>>> 0
>>>> 1.0W (@ 3.7 V FNB-82LI 430 MHz)
>>>> 0
>>>> 2.0W (@ 6 V EXT DC Input 430 MHz)
>>>> Modulation Type:
>>>> Variable Reactance
>>>> Maximum Deviation:
>>>> ±5 kHz
>>>> Spurious Emission:
>>>> At least 50 dB below carrier
>>>> Microphone Impedance:
>>>> 2 k Ohm
>>>>
>>>> This is higher than I remember it, but I often get the specs confused
>>>> with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In
>>>> any case, it works fine with a rubber duck as an APRS beacon.
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>>
>>>> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:
>>>>
>>>>>
>>>>>
>>>>> I just received a used Yeasu VX-2 HT and cannot find in the
>>>>> documentation what the UHF "low" power output wattage is. It lists the
>>>>> "High" setting as up to 1.5 w with the supplied battery but not the low end
>>>>> output.
>>>>>
>>>>> I suppose most people are concerned about the max power - yet I know
>>>>> from experience that .5 (1/2) watt through our roll-up J-pole is very
>>>>> adequate for HAB flights and that's how I plan to use this VX-2.
>>>>>
>>>>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>>>>
>>>>> Pete
>>>>> KC0GPB
>>>>>
>>>>>
>>>>>
>>>>

>>>
>>
>
>

7504. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 22:13:31 UTC
From: Mark Conner
Topic: 7496 Message: 7504

Sorry, cranial flatulence. I was thinking "low power" as "internal battery"
instead of "menu setting".

- Mark

On Fri, Jul 2, 2010 at 14:53, Pete Lilja <plilja@...> wrote:

>
>
> Am I missing it or does this chart NOT show the low power setting output on
> the 82LI battery on UHF?
>
> Pete
> KC0GPB
>
>
> On Fri, Jul 2, 2010 at 2:51 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> *TRANSMITTER * 0
>> RF Power Output:
>> 1.5W (@ 3.7 V FNB-82LI 144 MHz)
>> 0
>> 3.0W (@ 6 V EXT DC Input 144 MHz)
>> 0
>> 1.0W (@ 3.7 V FNB-82LI 430 MHz)
>> 0
>> 2.0W (@ 6 V EXT DC Input 430 MHz)
>> Modulation Type:
>> Variable Reactance
>> Maximum Deviation:
>> ±5 kHz
>> Spurious Emission:
>> At least 50 dB below carrier
>> Microphone Impedance:
>> 2 k Ohm
>>
>> This is higher than I remember it, but I often get the specs confused
>> with the VX-1R which I also own. I think the VX-1R is 350 or 500 mW. In
>> any case, it works fine with a rubber duck as an APRS beacon.
>>
>> 73 de Mark N9XTN
>>
>>
>> On Fri, Jul 2, 2010 at 14:43, Pete Lilja <plilja@...> wrote:

>>
>>>
>>>
>>> I just received a used Yeasu VX-2 HT and cannot find in the documentation
>>> what the UHF "low" power output wattage is. It lists the "High" setting as
>>> up to 1.5 w with the supplied battery but not the low end output.
>>>
>>> I suppose most people are concerned about the max power - yet I know from
>>> experience that .5 (1/2) watt through our roll-up J-pole is very adequate
>>> for HAB flights and that's how I plan to use this VX-2.
>>>
>>> Can anyone help? Is anyone else using a VX-xx in their HAB flights?
>>>
>>> Pete
>>> KC0GPB
>>>
>>>
>>>
>>
>
>
>
>

7505. Re: [GPSL] OT: Power Output of a Yeasu VX-2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-02 22:41:40 UTC
From: Roger Hammond
Topic: 7496 Message: 7505

We'll forgive you...this time
;-)
Rog

Sent from my Motorola Droid

On Jul 2, 2010 5:14 PM, "Mark Conner" <mconner1@...> wrote:

Sorry, cranial flatulence. I was thinking "low power" as "internal battery"
instead of "menu setting".

- Mark

On Fri, Jul 2, 2010 at 14:53, Pete Lilja <plilja@...> wrote:
>
>
>
> Am I missing it or does t...

Your email settings: Individual Email|Traditional
Change settings via the Web (Yahoo! ID require...

7506. Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 00:21:21 UTC
From: Freddy W
Topic: 7491 Message: 7506

So far no word of the FAA.
After reading the book of Paul Verhage (seems a dutch name)a great one BTW, there seems ro be no Class G airspace in Hawaii, So that makes it impossible to fly a weather balloon (?)
It took a while before I knew that, most flight school are closed here so I asked a pilot and he filled me in on this.
The FAA sents me from A to B and back. I guess they do not know either, or maybe brain failure what is most common in Hawaii.

The terrain of the land makes it hard to recover the payload anyway, to much military obstacles and mountains and unaccesable terrain here, even a water landing is difficult to recover due to the high and dangerous surf on the West and North shores.
So I might give up my dream and sell all my stuff and come to the mainland to watch and be part of a balloon chase one day, or I might fly the balloon here and nobody will ever know anyway..

Kinda disappointed now....

Freddy

--- In GPSL@yahoogroups.com, "Freddy W" <frewi80@...> wrote:
>
> Still waiting from some word of the FAA,
> Also updating my Balloon project every day and goin thru a lot of websites to find the proper information.
> Need to find some answers for:
>
> 1) Proper devices for Balloon inflatiob or does it come with the Helium tank rental ?
>
> 2) Also software that need to be installed in the laptop to capture the images coming from the balloons transmitter.
>
> 3)What is the proper way to attach the parachute to the balloon ?
>
> 4)Even if th balloon is not all the way inflated, what is the max ceiling hight ?
>
> 5)Proper antenna for capturing the signal at 100.000 feet.
>
> 6)In Hawaii there will be 5% change to recover the Balloon, lots of mountain ranges, Ocean an unaccesable terrain and you might get shot.
>
> Hope to find all these answer.
>
> Freddy
>

7507. Re: [GPSL] Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 01:15:12 UTC
From: Mike Manes
Topic: 7491 Message: 7507

Hi Freddy,

Class G airspace is quite rare, and it's NOT a requirement to limit your flight there. After all, if you ascend over 18,000 ft MSL in the National Air Space (NAS), you're automatically into Class A airspace!

Go back and re-read the FAR-101 link that I sent you earlier. For an exempt flight, you just have to avoid launching within 3 mi of an airport or into restricted or prohibited airspace. Pick up a copy of the FAA Sectional chart that includes your launch site and trajectory to see all the airspace classifications. They're available at the pilot shop at any controlled general aviation airport. You could even launch from an airport if you notify the tower and get an OK.

73 de Mike W5VSI
CTO EOSS

On 7/2/2010 18:21, Freddy W wrote:
> So far no word of the FAA.
> After reading the book of Paul Verhage (seems a dutch name)a great one BTW, there seems ro be no Class G airspace in Hawaii, So that makes it impossible to fly a weather balloon (?) It took a while before I knew that, most flight school are closed here so I asked a pilot and he filled me in on this.
> The FAA sents me from A to B and back. I guess they do not know either, or maybe brain failure what is most common in Hawaii.
>
> The terrain of the land makes it hard to recover the payload anyway, to much military obstacles and mountains and unaccesable terrain here, even a water landing is difficult to recover due to the high and dangerous surf on the West and North shores.
> So I might give up my dream and sell all my stuff and come to the mainland to watch and be part of a balloon chase one day, or I might fly the balloon here and nobody will ever know anyway..
>
> Kinda disappointed now....
>
> Freddy
>
> --- In GPSL@yahoogroups.com, "Freddy W"<frewi80@...> wrote:
>>
>> Still waiting from some word of the FAA,
>> Also updating my Balloon project every day and goin thru a lot of websites to find the proper information.
>> Need to find some answers for:
>>
>> 1) Proper devices for Balloon inflatiob or does it come with the Helium tank rental ?
>>

>> 2) Also software that need to be installed in the laptop to capture the images coming from the balloons transmitter.
>>
>> 3)What is the proper way to attach the parachute to the balloon ?
>>
>> 4)Even if th balloon is not all the way inflated, what is the max ceiling hight ?
>>
>> 5)Proper antenna for capturing the signal at 100.000 feet.
>>
>> 6)In Hawaii there will be 5% change to recover the Balloon, lots of mountain ranges, Ocean an unaccesable terrain and you might get shot.
>>
>> Hope to find all these answer.
>>
>> Freddy
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7508. Re: [GPSL] Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 01:43:47 UTC
From: Mark Conner
Topic: 7491 Message: 7508

http://skyvector.com/ has sectional maps online. Just put PHNL in the box
in the upper left.

73 de Mark N9XTN

On Fri, Jul 2, 2010 at 20:15, Mike Manes <mrmanes@...> wrote:

> Hi Freddy,
>
> Class G airspace is quite rare, and it's NOT a requirement to limit your
> flight there. After all, if you ascend over 18,000 ft MSL in the National
> Air Space (NAS), you're automatically into Class A airspace!
>
> Go back and re-read the FAR-101 link that I sent you earlier. For an
> exempt flight, you just have to avoid launching within 3 mi of an airport
> or into restricted or prohibited airspace. Pick up a copy of the FAA
> Sectional chart that includes your launch site and trajectory to see all
> the
> airspace classifications. They're available at the pilot shop at any
> controlled general aviation airport. You could even launch from an airport
> if you notify the tower and get an OK.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/2/2010 18:21, Freddy W wrote:
> > So far no word of the FAA.
> > After reading the book of Paul Verhage (seems a dutch name)a great one
> BTW, there seems ro be no Class G airspace in Hawaii, So that makes it
> impossible to fly a weather balloon (?) It took a while before I knew that,
> most flight school are closed here so I asked a pilot and he filled me in on
> this.
> > The FAA sents me from A to B and back. I guess they do not know either,
> or maybe brain failure what is most common in Hawaii.
> >
> > The terrain of the land makes it hard to recover the payload anyway, to
> much military obstacles and mountains and unaccesable terrain here, even a
> water landing is difficult to recover due to the high and dangerous surf on
> the West and North shores.
> > So I might give up my dream and sell all my stuff and come to the
> mainland to watch and be part of a balloon chase one day, or I might fly the
> balloon here and nobody will ever know anyway..
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> > Kinda disappointed now....
> >
> > Freddy

> >
> > --- In GPSL@yahoogroups.com, "Freddy W"<frewi80@...> wrote:
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> >> Still waiting from some word of the FAA,
> >> Also updating my Balloon project every day and goin thru a lot of
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> >> Hope to find all these answer.
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> > Yahoo! Groups Links
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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7509. Re: [GPSL] Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 02:11:27 UTC
From: Mike Manes
Topic: 7491 Message: 7509

It looks as though a launch from the N end of Oahu would stay pretty
clear of low-altitude headaches, assuming an easterly trajectory.
73 de Mike W5VSI

On 7/2/2010 19:43, Mark Conner wrote:
>
>
> http://skyvector.com/ has sectional maps online. Just put PHNL in the box in
> the upper left.
>
> 73 de Mark N9XTN
>
> On Fri, Jul 2, 2010 at 20:15, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Freddy,
>
> Class G airspace is quite rare, and it's NOT a requirement to limit your
> flight there. After all, if you ascend over 18,000 ft MSL in the National
> Air Space (NAS), you're automatically into Class A airspace!
>
> Go back and re-read the FAR-101 link that I sent you earlier. For an
> exempt flight, you just have to avoid launching within 3 mi of an airport
> or into restricted or prohibited airspace. Pick up a copy of the FAA
> Sectional chart that includes your launch site and trajectory to see all the
> airspace classifications. They're available at the pilot shop at any
> controlled general aviation airport. You could even launch from an airport
> if you notify the tower and get an OK.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/2/2010 18:21, Freddy W wrote:
> > So far no word of the FAA.
> > After reading the book of Paul Verhage (seems a dutch name)a great one
> BTW, there seems ro be no Class G airspace in Hawaii, So that makes it
> impossible to fly a weather balloon (?) It took a while before I knew
> that, most flight school are closed here so I asked a pilot and he filled
> me in on this.
> > The FAA sents me from A to B and back. I guess they do not know either,
> or maybe brain failure what is most common in Hawaii.
> >
> > The terrain of the land makes it hard to recover the payload anyway, to
> much military obstacles and mountains and unaccesable terrain here, even a
> water landing is difficult to recover due to the high and dangerous surf

> on the West and North shores.
> > So I might give up my dream and sell all my stuff and come to the
> mainland to watch and be part of a balloon chase one day, or I might fly
> the balloon here and nobody will ever know anyway..
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> > --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, "Freddy
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7510. Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 02:19:31 UTC
From: Freddy W
Topic: 7491 Message: 7510

Thanks Guys for the updates,
Will continue my project as planned, just a few parts to come in and then put everything together.
Freddy

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> It looks as though a launch from the N end of Oahu would stay pretty
> clear of low-altitude headaches, assuming an easterly trajectory.
> 73 de Mike W5VSI
>
> On 7/2/2010 19:43, Mark Conner wrote:
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> >
> > http://skyvector.com/ has sectional maps online. Just put PHNL in the box in
> > the upper left.
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> > 73 de Mark N9XTN
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> > On Fri, Jul 2, 2010 at 20:15, Mike Manes <mrmanes@...
> > <mailto:mrmanes@...>> wrote:
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> > Hi Freddy,
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> > Class G airspace is quite rare, and it's NOT a requirement to limit your
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> > Air Space (NAS), you're automatically into Class A airspace!
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> > Go back and re-read the FAR-101 link that I sent you earlier. For an
> > exempt flight, you just have to avoid launching within 3 mi of an airport
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> > Sectional chart that includes your launch site and trajectory to see all the
> > airspace classifications. They're available at the pilot shop at any
> > controlled general aviation airport. You could even launch from an airport
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> > 73 de Mike W5VSI
> > CTO EOSS
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> > On 7/2/2010 18:21, Freddy W wrote:
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> > > --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, "Freddy
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7511. Re: [GPSL] Re: Balloon Project Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-03 02:29:29 UTC
From: Mike Manes
Topic: 7491 Message: 7511

Here's a handy reference to US NAS classification:
http://en.wikipedia.org/wiki/Airspace_class_%28United_States%29
73 de Mike W5VSI

On 7/2/2010 20:19, Freddy W wrote:
> Thanks Guys for the updates,
> Will continue my project as planned, just a few parts to come in and then put everything together.
> Freddy
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> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
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>>> On Fri, Jul 2, 2010 at 20:15, Mike Manes<mrmanes@...
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>>> Go back and re-read the FAR-101 link that I sent you earlier. For an
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>>> Sectional chart that includes your launch site and trajectory to see all the
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>>> On 7/2/2010 18:21, Freddy W wrote:

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7512. NSTAR is airborne

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-05 14:19:57 UTC
From: Zack Clobes
Topic: 7512 Message: 7512

I'm seeing N9XTN-11 and KD4STH-8 tracking north from western Omaha at about 10k.

W0ZC-11 should also be on board, but transmitting more sporadically. It's possible that there was a problem and it was cut from the chain.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7513. BASE 45 on 6 July

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-05 23:14:08 UTC
From: BASE
Topic: 7513 Message: 7513

Dear friends,

BASE 45 is scheduled for tomorrow. Launch will occur from the roof of the Julian Science Center on the DePauw campus (39.64 N, 86.86 W). It is anticipated that launch will be before the scheduled 10 AM EDT (1400 UTC). Hopefully, we will be in the air closer to 9 AM EDT (1300 UTC).

The blocking high pressure with gentle surface winds from the south are leading to a flight that will head generally north. If the 600 gram balloon makes it to 85 kft with a nozzle lift of 9 pounds and a 5.75 pound payload, the landing may be directly north of the launch site about 35 miles away (or just north of Crawfordsville).

The APRS radio will be on 144.39 MHz using the W9YJ-11 call sign and no path for the beacon every two minutes. Principle payload will be the energy sensitive geiger counters.

Thanks for your support,
Howard

7514. RE: [GPSL] BASE 45 on 6 July

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-05 23:27:08 UTC
From: Freddy WILLEMS
Topic: 7513 Message: 7514

Great to hear that,

Will follow this event on the APRS map.

Thanks

Freddy

May the Force be with you......@lways, till the end, Aloha, Freddy & Florence Frewi80@...

To: gpsl@yahoogroups.com; ballooning@yahoogroups.com; balloon_sked@yahoogroups.com
CC: hbrooks@...; jkrueger@...; n9qgs@...; wa0tjt@...; jfdailey@...
From: basedepauw@...
Date: Mon, 5 Jul 2010 16:14:08 -0700
Subject: [GPSL] BASE 45 on 6 July

Dear friends,

BASE 45 is scheduled for tomorrow. Launch will occur from the roof of the Julian Science Center on the DePauw campus (39.64 N, 86.86 W). It is anticipated that launch will be before the scheduled 10 AM EDT (1400 UTC). Hopefully, we will be in the air closer to 9 AM EDT (1300 UTC).

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The APRS radio will be on 144.39 MHz using the W9YJ-11 call sign and no path for the beacon every two minutes. Principle payload will be the energy sensitive geiger counters.

Thanks for your support,
Howard

_____
The New Busy think 9 to 5 is a cute idea. Combine multiple calendars with Hotmail.
http://www.windowslive.com/campaign/thenewbusy?tile=multicalendar&ocid=PID28326::T:WLMTAGL
:ON:WL:en-US:WM_HMP:042010_5

7515. ISS crew capture robotic spacecraft • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 04:02:55 UTC
From: Mike Manes
Topic: 7515 Message: 7515

ATV QRM strikes again - in REAL space!

http://www.theregister.co.uk/2010/07/05/progress_docks/

Our 70 cm 1W DSB AM xmtr is the most powerful QRM generator on
any of out flight strings. Imagine flying a Mode S FAA transponder
with 250+ W peak pulse power on 30 cm!

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7516. Re: [GPSL] ISS crew capture rob otic spacecraft • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 14:30:28 UTC
From: Joe
Topic: 7515 Message: 7516
Attachments: 1 described; binary payloads are missing from this source WARC

yeah we learned that the hard way a couple years ago.

We have flown ATV with really old ancient GPS systems and it worked perfectly. but the GPS system was when gps systems were just coming out and were gigantic! the GPS alone had the antenna similar to they are now, the GPS receiver on the other hand was a 4 board levels of components on both sides, and measured 4 by 8 inches in size! And that was just the GPS! You still had to add like a KPC-3 and a HT transmitter.! the "Tracker" itself weighed on pounds!

BUT!! it was impervious to ATV. we flew that setup on a dozen or more ATV flights and worked flawlessly!

Then we "UP-Graded to like a garmin hockey puck, and thought how cool the whole tracker is in the ounces now. and worked great on all the radio audio experiments we did, probably 6 or so, before we did another ATV flight. Thinking like wow works great! bzzzzzzt! wrong.

We fired up the payload without the ATV running, (major power drain) and of course the GPS would up date from test location (My home) to launch site, so we thought cool GPS is working coredtly, then we'd be ready for liftfff and would turn on the ATV and release!

well the GPS from that point on sent the last valid position. the launch site sitting on the ground.

The GPS never locked on again throughought the whole flight.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/5/2010 11:02 PM, Mike Manes wrote:
> ATV QRM strikes again - in REAL space!
>
> http://www.theregister.co.uk/2010/07/05/progress_docks/
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> Our 70 cm 1W DSB AM xmtr is the most powerful QRM generator on
> any of out flight strings. Imagine flying a Mode S FAA transponder
> with 250+ W peak pulse power on 30 cm!
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> 73 de Mike W5VSI
>

7517. Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 15:31:46 UTC
From: dvpatterson@comcast.net
Topic: 7517 Message: 7517

The team at Sparkfun have lost their HAB , and are working on a tutorial set to document what they learned... the hard way. Currently featured on the Sparkfun front page, at: http :// www . sparkfun .com . The details are still a little sparse, but it could be a good read as details emerge, and perhaps an opportunity to help out one of the coolest hobby electronics shops out there.

-David

7518. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 15:43:26 UTC
From: Mark Conner
Topic: 7517 Message: 7518

Take a look at the parts list here:
http://www.sparkfun.com/commerce/tutorial_info.php?tutorials_id=185

There are a TON of doodads for HABists on here, including a $25 package that will log serial data onto microSD cards with minimal fuss. Now I'm drooling again.

73 de Mark N9XTN

On Tue, Jul 6, 2010 at 10:31, <dvpatterson@...> wrote:

>
>
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> The team at Sparkfun have lost their HAB, and are working on a tutorial set
> to document what they learned... the hard way. Currently featured on the
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> there.
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>
> -David
>
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>

7519. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 17:35:37 UTC
From: Jerry Gable
Topic: 7517 Message: 7519

I am on their top 500 customers list from buying things to tie on strings under balloons:-)

Jerry
http://s3research.com

_____
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Tue, July 6, 2010 8:43:26 AM
Subject: Re: [GPSL] Sparkfun

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>
>-David
>
>

7520. Re: Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 17:51:19 UTC
From: zclobes@gmail.com
Topic: 7517 Message: 7520

They do have a lot of neat stuff. I am actually visiting their office on Thursday morning, and I am encouraging them to be a GPSL sponsor.

Zack

On Jul 6, 2010 12:35pm, Jerry Gable <jerrygable@yahoo.com> wrote:

> I am on their top 500 customers list from buying things to tie on strings
> under balloons:-)

> Jerry
> http://s3research.com

> From: Mark Conner mconner1@gmail.com>
> To: GPSL@yahoogroups.com
> Sent: Tue, July 6, 2010 8:43:26 AM
> Subject: Re:
> [GPSL] Sparkfun

> Take a look at the parts list here:
> http://www.sparkfun .com/commerce/ tutorial_ info.php? tutorials_ id=185

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> perhaps an opportunity to help out one of the coolest hobby electronics
> shops out there.

> -David

>

7521. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 18:08:58 UTC
From: dvpatterson@comcast.net
Topic: 7517 Message: 7521

Nice! You're making it harder and harder for me to miss the fun this year. BTW, this just showed up on the site in reply to one of my comments (it's from Dave Stillman, a SFE engineer):

Hey Dave! I talked with Rick from EOSS before launching, and he was extremely helpful and had tons of information. It's easy to see that they've been at it a long time!

I'm really bummed but I've got other plans during GPSL 2010 already, but I'm definitely going next year!

73s KI6YMZ

----- Original Message -----
From: zclobes@...
To: "Group GPSL" <GPSL@yahoogroups.com>
Sent: Tuesday, July 6, 2010 11:51:19 AM
Subject: Re: Re: [GPSL] Sparkfun

They do have a lot of neat stuff. I am actually visiting their office on Thursday morning, and I am encouraging them to be a GPSL sponsor.

Zack

On Jul 6, 2010 12:35pm, Jerry Gable <jerrygable@...> wrote:
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> Jerry
> http://s3research.com
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> From: Mark Conner mconner1@...>
> To: GPSL@yahoogroups.com
> Sent: Tue, July 6, 2010 8:43:26 AM
> Subject: Re:

> [GPSL] Sparkfun
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> Take a look at the parts list here:
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> 73 de Mark N9XTN
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> On Tue, Jul 6, 2010 at 10:31, dvpatterson@ comcast.net> wrote:
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> -David
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7522. BASE 45 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 20:00:19 UTC
From: BASE
Topic: 7522 Message: 7522

Dear friends,

Today's flight was successfully completed. Launch occurred shortly after 9 am from the roof of our science building. I watched the balloon burst at 86,500 feet from a parking lot near US 231 and SR 32 in Crawfordsville. The system landed in eight foot tall corn at 40 degrees 8 minutes north and 86 degrees 56 minutes west. (According to my students, it was only 86 rows deep in the corn, that was fully tassled.)

Still hope to fly once more before GPSL. Look forward to seeing everyone that can make it to Hutchinson.

The no path digi on the 144.39 MHz every two minutes appears to have minimized our impact on the APRS infrastructure.

Thanks for your support,
Howard

7523. Fwd: Helium prices

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 22:16:55 UTC
From: Mike Manes
Topic: 7523 Message: 7523

We may get to the $500 T-bottle sooner than we expect. Should we
wait until then to learn how to use H2 safely and effectively?

- 73 de Mike W5VSI

-------- Original Message --------
Subject: Helium prices
Date: Tue, 06 Jul 2010 07:56:16 -0600
From: Mark Manes <markmanes@...>
To: Mike Manes <mrmanes@...>

http://news.slashdot.org/story/10/07/05/2159215/Price-Shocks-May-Be-Coming-For-Helium-Supply?from=rss

7524. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 22:50:31 UTC
From: Mike Manes
Topic: 7517 Message: 7524

Hey, Zack,

I assume you mean you'll be in Boulder CO this Thur? If so, then
stick around and join us in Deer Trail CO 0700 Sat 7/10 for EOSS-153
carrying 12 CU balloonsats if you can. That's 50 mi E of Denver on
I-70.

73 de Mike W5VSI

On 7/6/2010 11:51, zclobes@... wrote:
>
>
> They do have a lot of neat stuff. I am actually visiting their office on
> Thursday morning, and I am encouraging them to be a GPSL sponsor.
>
> Zack
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> On Jul 6, 2010 12:35pm, Jerry Gable <jerrygable@...> wrote:
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> > From: Mark Conner mconner1@...>
> > To: GPSL@yahoogroups.com
> > Sent: Tue, July 6, 2010 8:43:26 AM
> > Subject: Re:
> > [GPSL] Sparkfun
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> > There are a TON of doodads for HABists on here, including a $25 package
> that will log serial data onto microSD cards with minimal fuss. Now I'm
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> Sparkfun front page, at: http://www.sparkfun.com/. The details are still a

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7525. Re: [GPSL] Fwd: Helium prices

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 23:10:18 UTC
From: Joe
Topic: 7523 Message: 7525
Attachments: 1 described; binary payloads are missing from this source WARC

Somewhere in the History is a description on how we have done it from
the beginning. somewhere.....

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/6/2010 5:16 PM, Mike Manes wrote:
> We may get to the $500 T-bottle sooner than we expect. Should we
> wait until then to learn how to use H2 safely and effectively?
>
> - 73 de Mike W5VSI
>
> -------- Original Message --------
> Subject: Helium prices
> Date: Tue, 06 Jul 2010 07:56:16 -0600
> From: Mark Manes<markmanes@...>
> To: Mike Manes<mrmanes@...>
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> http://news.slashdot.org/story/10/07/05/2159215/Price-Shocks-May-Be-Coming-For-Helium-Su
pply?from=rss
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7526. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 23:15:36 UTC
From: Zack Clobes
Topic: 7517 Message: 7526

I'd love to, but at this point, I'm planning on hiking Mt Democrat on
Saturday morning.

Do you by chance have anything planned between Aug 7-15?

Zack

On Tue, Jul 6, 2010 at 5:50 PM, Mike Manes <mrmanes@...> wrote:

> Hey, Zack,
>
> I assume you mean you'll be in Boulder CO this Thur? If so, then
> stick around and join us in Deer Trail CO 0700 Sat 7/10 for EOSS-153
> carrying 12 CU balloonsats if you can. That's 50 mi E of Denver on
> I-70.
>
> 73 de Mike W5VSI
>
> On 7/6/2010 11:51, zclobes@... wrote:
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> >
> > They do have a lot of neat stuff. I am actually visiting their office on
> > Thursday morning, and I am encouraging them to be a GPSL sponsor.
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> > Zack
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> > On Jul 6, 2010 12:35pm, Jerry Gable <jerrygable@...> wrote:
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> > > Jerry
> > > http://s3research.com
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> > > From: Mark Conner mconner1@...>
> > > To: GPSL@yahoogroups.com
> > > Sent: Tue, July 6, 2010 8:43:26 AM
> > > Subject: Re:
> > > [GPSL] Sparkfun
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> > that will log serial data onto microSD cards with minimal fuss. Now I'm
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> > > 73 de Mark N9XTN
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> > opportunity to help out one of the coolest hobby electronics shops out
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7527. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 23:38:44 UTC
From: Mike Manes
Topic: 7517 Message: 7527

Bummer. If you bring an HT, listen up on the 448.450 / 100 Hz Pikes
Peak repeater for our T&R net. APRS on 144.34 and DF on 147.555.

Enjoy your hike, and hope you get back down before the afternoon
thunderbumpers hit.

Only EOSS event 8/7-15 is our meeting in SE Denver 'burbs on Tues 8/10.
You'd be more than welcome to join us!

73 de Mike W5VSI

On 7/6/2010 17:15, Zack Clobes wrote:
>
>
> I'd love to, but at this point, I'm planning on hiking Mt Democrat on Saturday
> morning.
>
> Do you by chance have anything planned between Aug 7-15?
>
> Zack
>
> On Tue, Jul 6, 2010 at 5:50 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hey, Zack,
>
> I assume you mean you'll be in Boulder CO this Thur? If so, then
> stick around and join us in Deer Trail CO 0700 Sat 7/10 for EOSS-153
> carrying 12 CU balloonsats if you can. That's 50 mi E of Denver on
> I-70.
>
> 73 de Mike W5VSI
>
> On 7/6/2010 11:51, zclobes@... <mailto:zclobes@...> wrote:
> >
> >
> > They do have a lot of neat stuff. I am actually visiting their office on
> > Thursday morning, and I am encouraging them to be a GPSL sponsor.
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> > On Jul 6, 2010 12:35pm, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
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> > > From: Mark Conner mconner1@... <mailto:mconner1@...>>
> > > To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > > Sent: Tue, July 6, 2010 8:43:26 AM
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> > > 73 de Mark N9XTN
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> > > On Tue, Jul 6, 2010 at 10:31, dvpatterson@ comcast.net
> <http://comcast.net>> wrote:

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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7528. Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-06 23:41:41 UTC
From: k6rpt
Topic: 7528 Message: 7528

Will FAA allow a balloon carrying a payload weight of 10 ounces in air space B, C, & D?

-Ron K6RPT

7529. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:03:33 UTC
From: Mike Manes
Topic: 7517 Message: 7529

Hi David,

Hey, I've used SparkFun stuff in some EOSS payloads, most recently the
SamCam II:

http://www.eoss.org/hardware/samcam2/index.htm

It uses one of your gear motors, a PICAXE-8, a rubber-tired wheel,
Nd magnets and reed switches.

I really appreciate having an outfit like yours in the local area.

BTW, if you'd like to learn how EOSS has earned its 100% recovery rate out
of 152 flights to date, come on out to one of our flights:

http://www.eoss.org/flight/

We're flying EOSS-153 out of Greater Downtown Deer Trail (school grounds)
this Sat 7/10 at 0700 MDST.

73 de Mike W5VSI
CTO EOSS

On 7/6/2010 09:31, dvpatterson@... wrote:
>
>
>
> The team at Sparkfun have lost their HAB, and are working on a tutorial set to
> document what they learned... the hard way. Currently featured on the Sparkfun
> front page, at: http://www.sparkfun.com <http://www.sparkfun.com/>. The
> details are still a little sparse, but it could be a good read as details
> emerge, and perhaps an opportunity to help out one of the coolest hobby
> electronics shops out there.
>
> -David
>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7530. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:26:30 UTC
From: Zack Clobes
Topic: 7528 Message: 7530

I've never seen an explicit list of classes that they will "permit" you to fly through, so long as you adhere to the basic "exemption" requirements (like having a 50lbs weak link between the balloon and the payload.)

Most flights I would guess end up through or at least nearby most of the airspace classes.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...> wrote:

>
>
> Will FAA allow a balloon carrying a payload weight of 10 ounces in air
> space B, C, & D?
>
> -Ron K6RPT
>
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>

7531. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:29:00 UTC
From: Joe
Topic: 7528 Message: 7531
Attachments: 1 described; binary payloads are missing from this source WARC

ummm I can think of one flight that landed between runways at Ohare Intnl.

Cant go through more airspaces that that I bet?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/6/2010 7:26 PM, Zack Clobes wrote:
>
>
> I've never seen an explicit list of classes that they will "permit"
> you to fly through, so long as you adhere to the basic "exemption"
> requirements (like having a 50lbs weak link between the balloon and
> the payload.)
>
> Most flights I would guess end up through or at least nearby most of
> the airspace classes.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
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> On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> Will FAA allow a balloon carrying a payload weight of 10 ounces in
> air space B, C, & D?
>
> -Ron K6RPT
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7532. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:36:03 UTC
From: Mike Manes
Topic: 7528 Message: 7532

Hi Ron,

Despite it being OK per FAR-101, I'd think it'd be a great idea to stay out of those heavily-trafficked airspaces. As a minimum, keep in touch with the tower to get a launch OK. Note that the new NAS classification scheme post-dates the latest revision to FAR-101.

73 de Mike W5VSI

On 7/6/2010 17:41, k6rpt wrote:
> Will FAA allow a balloon carrying a payload weight of 10 ounces in air space B, C,& D?
>
> -Ron K6RPT
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7533. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:42:50 UTC
From: Mike Manes
Topic: 7528 Message: 7533

Actually, those 3 classes of controlled air space are pretty easy to
avoid, unless you want to launch from your back yard just a few miles
from one of those airports.

And don't confuse 50 lb "impact strenth" with tensile strength - apples
and oranges. Some folks who've used 50 lb tensile line have seen their
balloons soar skyward, unburdened by any payloads. We use 250 lb woven
nylon, and it'll certainly break if it's hit by an aeroplane going 100+ MPH.

73 de Mike W5VSI
eoss

On 7/6/2010 18:26, Zack Clobes wrote:
>
>
> I've never seen an explicit list of classes that they will "permit" you to fly
> through, so long as you adhere to the basic "exemption" requirements (like
> having a 50lbs weak link between the balloon and the payload.)
>
> Most flights I would guess end up through or at least nearby most of the
> airspace classes.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
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> On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
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> Will FAA allow a balloon carrying a payload weight of 10 ounces in air
> space B, C, & D?
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7534. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:44:49 UTC
From: Mike Manes
Topic: 7528 Message: 7534

Yup, you busted right thru Class B ... and don't think the FAA didn't
make note of it! We scrub or move launch sites if we think we'll even
brush close to DIA's Class B.

On 7/6/2010 18:29, Joe wrote:
> ummm I can think of one flight that landed between runways at Ohare Intnl.
>
> Cant go through more airspaces that that I bet?
>
> The Original Rolling Ball Clock
> Idle Tyme
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> On 7/6/2010 7:26 PM, Zack Clobes wrote:
>> I've never seen an explicit list of classes that they will "permit" you to
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>> On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...
>> <mailto:Ron@...>> wrote:
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>> Will FAA allow a balloon carrying a payload weight of 10 ounces in air
>> space B, C, & D?
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>> -Ron K6RPT
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7535. Embroidered ANSR sport caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 00:47:05 UTC
From: compassing
Topic: 7535 Message: 7535
Attachments: 2 described; binary payloads are missing from this source WARC

ANSR people,

I have received ANSR Board of Directors approval to proceed with the purchase of a limited quantity of ANSR logo'd sport cap. Some of you have already ordered. Again, thank you for your support. To everyone else receiving this, you may now put your desired quantity on reserve.

We are able to obtain a portion of our order, *but only for those donors who get in on this initial order*, personalized at no additional charge. Limit is one line of up to eight alpha-numeric characters. Unfortunately circumstances beyond my control make it necessary that all donors desiring their name or call sign embroidered on the cap must get their reservation in right away. Time is of the essence. For ANSR to take delivery and have them available for potential donors attending the Williams' Ham Fest, we must receive your firm reservation by close of business day Thursday 07-08-10. If you do not want to trust the email servers for timeliness, *in addition to your written *email reservation, call or text 480-577-0612 to confirm you are on the donors reservation list before the deadline.

I took a photo of the completed sample cap which didn't turn out too good. That cap looks much better than the picture. The current version has enhanced contrast and a bolder, more golden color text "Supporting NASA space grants since 2001". They also compensated for "pull effect", stitch error, etc. These measures have greatly increased the precision, light refraction, iridescence, and overall appearance of the entire graphic. Again, the picture doesn't reflect these enhancements. You can take my word for it, this is fine looking cap you will be proud to wear, display or give as a gift or award. FlexFit is our cap of choice, two sizes fit all (S-M and L-XL), very high quality, 63% Polyester, 34% Cotton, 3% Spandex, is medium gray color with charcoal sandwich brim. From the rear it appears to be a fitted cap (no adjustment strap or opening). Gold text color was chosen for a good contrast with gray background material -- in memory of Michael Gray KD7LMO-SK. I will attach the picture and one of the graphic files. Donation level for the cap is $20. Please specify quantity, size of each cap, either S-M or L-XL and personalization text (up to 8 char.).

If you would like more info or have specific questions, let me know. If you want some of these with custom personalizations on any of the remaining panels, our vendor is offering ANSR donors a minimum of 50% off their already low embroidery charge. For instance, you could add Michael's call sign or "Michigan" his favorite sport venue or just be creative. A friend suggested, "Flew it to the edge of space and all I got is this hat!". Then there's the all-time favorite, " <--- I'm with Stupid!". Our vendor has been excellent to work with. If you prefer to place an order later, and if the ANSR board votes to repeat this offer in the future, and if (that's a

lot of if's) you decide to take advantage of our vendors generous discount, then you'll be pleased with their professionalism. In most cases, you can drop by, or better still, call for an appointment and they will embroider your order while you wait.

As an ANSR donor you can add anything alpha-numeric, any color, any size up to 2.25 inches tall, multiple lines or a full wrap around edge to edge of the ANSR/sphere graphic can be added for less than half of the normal charge. If we request additional personalization on the caps before they start production, ANSR will pass that cost, as well as your postage or shipping cost, on to you without any markup. The vendor may add a small handling charge to ship large orders. Their location, mailing address and contact info is included with each cap.

Caps will be available at the Williams' Ham Fest and the next regular ANSR meeting Monday 07-19-10, 1930 hours, ASU Tempe Campus, Orange Mall, Moeur Bldg. Watch these:
www.ansr.org <http://ansr.org/> or
http://groups.yahoo.com/group/Ballooning/
sites for meeting notices and talk-in details.

Best regards,
James, AC7ZT
Arizona Near Space Research
An Arizona non-profit 501(c)(3) organization
Promoting science, technologies and education (STEM; NASA) by exploring frontiers in amateur radio and high altitude ballooning.

PS. If you know the address of someone who has supported, or would like to support ANSR endeavors, please feel free to forward this to them.
Cross-posting to other enthusiats use-net and remailers is encouraged.

7536. Fwd: Embroidered ANSR sport caps - correction

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 01:40:48 UTC
From: compassing
Topic: 7536 Message: 7536

Correction. New phone -- I gave the wrong number. Correct phone number is 480-577-0216.
James

---------- Forwarded message ----------
From: compassing <compassing@...>
Date: Tue, Jul 6, 2010 at 5:47 PM
Subject: Embroidered ANSR sport caps

ANSR people,

I have received ANSR Board of Directors approval to proceed with the purchase of a limited quantity of ANSR logo'd sport cap. Some of you have already ordered. Again, thank you for your support. To everyone else receiving this, you may now put your desired quantity on reserve.

We are able to obtain a portion of our order, *but only for those donors who get in on this initial order*, personalized at no additional charge. Limit is one line of up to eight alpha-numeric characters. Unfortunately circumstances beyond my control make it necessary that all donors desiring their name or call sign embroidered on the cap must get their reservation in right away. Time is of the essence. For ANSR to take delivery and have them available for potential donors attending the Williams' Ham Fest, we must receive your firm reservation by close of business day Thursday 07-08-10. If you do not want to trust the email servers for timeliness, *in addition to your written *email reservation, call or text 480-577-0612 to confirm you are on the donors reservation list before the deadline.

I took a photo of the completed sample cap which didn't turn out too good. That cap looks much better than the picture. The current version has enhanced contrast and a bolder, more golden color text "Supporting NASA space grants since 2001". They also compensated for "pull effect", stitch error, etc. These measures have greatly increased the precision, light refraction, iridescence, and overall appearance of the entire graphic. Again, the picture doesn't reflect these enhancements. You can take my word for it, this is fine looking cap you will be proud to wear, display or give as a gift or award. FlexFit is our cap of choice, two sizes fit all (S-M and L-XL), very high quality, 63% Polyester, 34% Cotton, 3% Spandex, is medium gray color with charcoal sandwich brim. From the rear it appears to be a fitted cap (no adjustment strap or opening). Gold text color was chosen for a good contrast with gray background material -- in memory of Michael Gray KD7LMO-SK. I will attach the picture and one of the graphic files. Donation level for the cap is $20. Please specify quantity, size of each cap, either S-M or L-XL and personalization text (up to 8 char.).

If you would like more info or have specific questions, let me know. If you want some of these with custom personalizations on any of the remaining panels, our vendor is offering ANSR donors a minimum of 50% off their already low embroidery charge. For instance, you could add Michael's call sign or "Michigan" his favorite sport venue or just be creative. A friend suggested, "Flew it to the edge of space and all I got is this hat!". Then there's the all-time favorite, " <--- I'm with Stupid!". Our vendor has been excellent to work with. If you prefer to place an order later, and if the ANSR board votes to repeat this offer in the future, and if (that's a lot of if's) you decide to take advantage of our vendors generous discount, then you'll be pleased with their professionalism. In most cases, you can drop by, or better still, call for an appointment and they will embroider your order while you wait.

As an ANSR donor you can add anything alpha-numeric, any color, any size up to 2.25 inches tall, multiple lines or a full wrap around edge to edge of the ANSR/sphere graphic can be added for less than half of the normal charge. If we request additional personalization on the caps before they start production, ANSR will pass that cost, as well as your postage or shipping cost, on to you without any markup. The vendor may add a small handling charge to ship large orders. Their location, mailing address and contact info is included with each cap.

Caps will be available at the Williams' Ham Fest and the next regular ANSR meeting Monday 07-19-10, 1930 hours, ASU Tempe Campus, Orange Mall, Moeur Bldg. Watch these:
www.ansr.org <http://ansr.org/> or
http://groups.yahoo.com/group/Ballooning/
sites for meeting notices and talk-in details.

Best regards,
James, AC7ZT
Arizona Near Space Research
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7537. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 02:16:53 UTC
From: Joe
Topic: 7528 Message: 7537
Attachments: 1 described; binary payloads are missing from this source WARC

That was that long duration floater. the one and only one we had. it took off from the usual location near Hillsboro, WI.

In days LONG before GPS's were available. So location was everyone sending in 2 meter beam headings via packet reports and on the 40 meter tracking net.
Launch was close to 6 am sun up, and went till just after sunset it finally popped when people had a visual on it.
The Crazy thing according to all the beam headings made it close to the Indiana/Ohio/Michigan border, then came all the way back till it was floating directly over Elgin, IL. and my brother in laws house he was watching it through his telescope. and he seen it pop. then it started to come down.

Of course all day we were talking to Chicago centere, letting them know where it was at out best guesstimates from those days. and we seen the trend of where it was going. Luckily this was still at the time of the cool supervisor we had those days.

Once it seemed lower we stayed on the phone relaying directly to him live out guestimates. and when it was one the ground seven groups of chasers all had it inside the fence.

He had no problem. He said he even seen it come in on their radar, well he said they did so, what am i to question. at any rate he had no problem, He know it was under exampt spec's and then some. the whole thing maybe weighed a pound, in one small styrofoam box. the density was like 10% of the limit at the most.

Matter of fact he told us where to meet their security guys at what gate so they can cvome in and fox hunt it down with them. It landed between a fed ex taxi way and an american taxi way near some other actual runway.

But he was cool, and said wth the spec of the payload he's not concerned at all. cool dude!

Here is where a steerable chute would have been a good thing to have instead of being against the law,?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/6/2010 7:44 PM, Mike Manes wrote:
> Yup, you busted right thru Class B ... and don't think the FAA didn't

> make note of it! We scrub or move launch sites if we think we'll even
> brush close to DIA's Class B.
>
> On 7/6/2010 18:29, Joe wrote:
>> ummm I can think of one flight that landed between runways at Ohare
>> Intnl.
>>
>> Cant go through more airspaces that that I bet?
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 7/6/2010 7:26 PM, Zack Clobes wrote:
>>> I've never seen an explicit list of classes that they will "permit"
>>> you to
>>> fly through, so long as you adhere to the basic "exemption"
>>> requirements
>>> (like having a 50lbs weak link between the balloon and the payload.)
>>>
>>> Most flights I would guess end up through or at least nearby most of
>>> the
>>> airspace classes.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org <http://www.projecttraveler.org>
>>>
>>>
>>> On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...
>>> <mailto:Ron@...>> wrote:
>>>
>>> Will FAA allow a balloon carrying a payload weight of 10 ounces
>>> in air
>>> space B, C, & D?
>>>
>>> -Ron K6RPT
>>>
>>>
>

7538. Re: [GPSL] Filing a NOTAM in are space B, C, & D.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 02:17:13 UTC
From: Joe
Topic: 7528 Message: 7538
Attachments: 1 described; binary payloads are missing from this source WARC

That was that long duration floater. the one and only one we had. it took off from the usual location near Hillsboro, WI.

In days LONG before GPS's were available. So location was everyone sending in 2 meter beam headings via packet reports and on the 40 meter tracking net.
Launch was close to 6 am sun up, and went till just after sunset it finally popped when people had a visual on it.
The Crazy thing according to all the beam headings made it close to the Indiana/Ohio/Michigan border, then came all the way back till it was floating directly over Elgin, IL. and my brother in laws house he was watching it through his telescope. and he seen it pop. then it started to come down.

Of course all day we were talking to Chicago centere, letting them know where it was at out best guesstimates from those days. and we seen the trend of where it was going. Luckily this was still at the time of the cool supervisor we had those days.

Once it seemed lower we stayed on the phone relaying directly to him live out guestimates. and when it was one the ground seven groups of chasers all had it inside the fence.

He had no problem. He said he even seen it come in on their radar, well he said they did so, what am i to question. at any rate he had no problem, He know it was under exampt spec's and then some. the whole thing maybe weighed a pound, in one small styrofoam box. the density was like 10% of the limit at the most.

Matter of fact he told us where to meet their security guys at what gate so they can cvome in and fox hunt it down with them. It landed between a fed ex taxi way and an american taxi way near some other actual runway.

But he was cool, and said wth the spec of the payload he's not concerned at all. cool dude!

Here is where a steerable payload would have been a good thing to have instead of being against the law,?

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>>> Zack Clobes, W0ZC
>>> Project: Traveler
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>>> On Tue, Jul 6, 2010 at 6:41 PM, k6rpt <Ron@...
>>> <mailto:Ron@...>> wrote:
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>>> Will FAA allow a balloon carrying a payload weight of 10 ounces
>>> in air
>>> space B, C, & D?
>>>
>>> -Ron K6RPT
>>>
>>>
>

7539. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 04:02:08 UTC
From: Dan Bowen
Topic: 7517 Message: 7539

The recovery rate is greatly helped by living where trees are few and far between! I can take you right to about 5 UTARC payloads, swinging gently in the canopies of 100+ foot tall trees in a national park :-).

Thanks,
Dan

Sent from my iPhone 4

On Jul 6, 2010, at 20:03, Mike Manes <mrmanes@gmail.com> wrote:

> Hi David,
>
> Hey, I've used SparkFun stuff in some EOSS payloads, most recently the
> SamCam II:
>
> http://www.eoss.org/hardware/samcam2/index.htm
>
> It uses one of your gear motors, a PICAXE-8, a rubber-tired wheel,
> Nd magnets and reed switches.
>
> I really appreciate having an outfit like yours in the local area.
>
> BTW, if you'd like to learn how EOSS has earned its 100% recovery rate out
> of 152 flights to date, come on out to one of our flights:
>
> http://www.eoss.org/flight/
>
> We're flying EOSS-153 out of Greater Downtown Deer Trail (school grounds)
> this Sat 7/10 at 0700 MDST.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/6/2010 09:31, dvpatterson@... wrote:
> >
> >
> >
> > The team at Sparkfun have lost their HAB, and are working on a tutorial set to
> > document what they learned... the hard way. Currently featured on the Sparkfun
> > front page, at: http://www.sparkfun.com <http://www.sparkfun.com/>. The
> > details are still a little sparse, but it could be a good read as details
> > emerge, and perhaps an opportunity to help out one of the coolest hobby
> > electronics shops out there.
> >
> > -David

> >
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> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

7540. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 14:04:56 UTC
From: dvpatterson@comcast.net
Topic: 7517 Message: 7540

Perhaps there has been some confusion... I don't actually work for Sparkfun, I just use their stuff a lot and frequent their website. David Stillman, KI6YMZ, works for SFE, and was one of the driving forces behind the project. However, I wholeheartedly agree that it's great to have them nearby... there's nothing like paying for overnight shipping in the form of USPS first class!

73's,

David Patterson

KB9QLS

----- Original Message -----
From: "Mike Manes" <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: dvpatterson@...
Sent: Tuesday, July 6, 2010 6:03:33 PM
Subject: Re: [GPSL] Sparkfun

Hi David,

Hey, I've used SparkFun stuff in some EOSS payloads, most recently the
SamCam II:

http://www.eoss.org/hardware/samcam2/index.htm

It uses one of your gear motors, a PICAXE-8, a rubber-tired wheel,
Nd magnets and reed switches.

I really appreciate having an outfit like yours in the local area.

BTW, if you'd like to learn how EOSS has earned its 100% recovery rate out
of 152 flights to date, come on out to one of our flights:

http://www.eoss.org/flight/

We're flying EOSS-153 out of Greater Downtown Deer Trail (school grounds)
this Sat 7/10 at 0700 MDST.

73 de Mike W5VSI
CTO EOSS

On 7/6/2010 09:31, dvpatterson@... wrote:
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> The team at Sparkfun have lost their HAB, and are working on a tutorial set to
> document what they learned... the hard way. Currently featured on the Sparkfun

> front page, at: http://www.sparkfun.com <http://www.sparkfun.com/>. The
> details are still a little sparse, but it could be a good read as details
> emerge, and perhaps an opportunity to help out one of the coolest hobby
> electronics shops out there.
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> -David
>
>
>
>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7541. streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 14:23:15 UTC
From: Roger Hammond
Topic: 7541 Message: 7541

Is anyone planning to stream video of the GPSL 2010 conference?
If so, I may have to arrange for a vacation day so I can play along at home.

Rog KC0MWM

7542. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 14:30:34 UTC
From: Zack Clobes
Topic: 7541 Message: 7542

I've toyed with the idea, but I don't have a definitive answer at this point.

The bigger question is probably whether or not there is sufficient interest from the community that won't be able to attend?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Is anyone planning to stream video of the GPSL 2010 conference?
> If so, I may have to arrange for a vacation day so I can play along at
> home.
>
> Rog KC0MWM
>
>

7543. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 14:41:25 UTC
From: Ed Moore
Topic: 7541 Message: 7543

+1 interested

Ed M0TEK
CU Spaceflight

On 07/07/10 15:30, Zack Clobes wrote:
>
>
> I've toyed with the idea, but I don't have a definitive answer at this
> point.
>
>
> The bigger question is probably whether or not there is sufficient
> interest from the community that won't be able to attend?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
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>
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> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@...
> <mailto:kc0mwm@...>> wrote:
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> If so, I may have to arrange for a vacation day so I can play along
> at home.
>
> Rog KC0MWM
>
>
>

7544. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 14:47:26 UTC
From: Keith Kaiser
Topic: 7541 Message: 7544

Easy enough to set up. Both Bill Brown and myself have used http://batc.tv/ch_live.php to do it before. In fact Bill did it last year from GPSL.

On Jul 7, 2010, at 9:41 AM, Ed Moore wrote:

> +1 interested
>
> Ed M0TEK
> CU Spaceflight
>
> On 07/07/10 15:30, Zack Clobes wrote:
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>> I've toyed with the idea, but I don't have a definitive answer at this
>> point.
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> Yahoo! Groups Links
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7545. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 17:48:50 UTC
From: Mike Manes
Topic: 7517 Message: 7545

Sympatico. We've seen some of that ourselves at GPSL and even one that
we launched from the CU campus in Boulder that got a spoofed cutdown just
a minute after launch. It landed in a 100-ft oak tree, and we called the
Boulder FD's ladder truck to retrieve it. Then there are the three that
have landed across power lines - think of trees that bite!

I guess youse guys include a chain saw in your recovery go-bag? Or maybe
a potato gun like one of the guys demoed at GPSL last year or so?

73 de Mike W5VSI

On 7/6/2010 22:02, Dan Bowen wrote:
>
>
> The recovery rate is greatly helped by living where trees are few and far
> between! I can take you right to about 5 UTARC payloads, swinging gently in
> the canopies of 100+ foot tall trees in a national park :-).
>
> Thanks,
> Dan
>
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> Sent from my iPhone 4
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> On Jul 6, 2010, at 20:03, Mike Manes <mrmanes@...
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>> Hi David,
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>> Hey, I've used SparkFun stuff in some EOSS payloads, most recently the
>> SamCam II:
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>> <http://www.eoss.org/hardware/samcam2/index.htm>http://www.eoss.org/hardware/samcam2/in
dex.htm
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>> It uses one of your gear motors, a PICAXE-8, a rubber-tired wheel,
>> Nd magnets and reed switches.
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>> I really appreciate having an outfit like yours in the local area.
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>> BTW, if you'd like to learn how EOSS has earned its 100% recovery rate out
>> of 152 flights to date, come on out to one of our flights:
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>> <http://www.eoss.org/flight/>http://www.eoss.org/flight/
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>> We're flying EOSS-153 out of Greater Downtown Deer Trail (school grounds)

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>> 73 de Mike W5VSI
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>> On 7/6/2010 09:31, <mailto:dvpatterson%40comcast.net>dvpatterson@...
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>> > -David
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>> Mike Manes <mailto:mrmanes%40gmail.com>mrmanes@...
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7546. Re: [GPSL] Sparkfun

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 17:53:35 UTC
From: Mike Manes
Topic: 7517 Message: 7546

OK - I guess mistook your earlier email as describing a Sparkfun-sponsored
flight. Maybe some day that will actually happen!
73 de Mike W5VSI

On 7/7/2010 08:04, dvpatterson@... wrote:
> Perhaps there has been some confusion... I don't actually work for Sparkfun, I
> just use their stuff a lot and frequent their website. David Stillman, KI6YMZ,
> works for SFE, and was one of the driving forces behind the project. However,
> I wholeheartedly agree that it's great to have them nearby... there's nothing
> like paying for overnight shipping in the form of USPS first class!
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> 73's,
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> David Patterson
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> KB9QLS
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> ----- Original Message -----
> From: "Mike Manes" <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: dvpatterson@...
> Sent: Tuesday, July 6, 2010 6:03:33 PM
> Subject: Re: [GPSL] Sparkfun
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> Hi David,
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> Hey, I've used SparkFun stuff in some EOSS payloads, most recently the
> SamCam II:
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> http://www.eoss.org/hardware/samcam2/index.htm
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> It uses one of your gear motors, a PICAXE-8, a rubber-tired wheel,
> Nd magnets and reed switches.
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> I really appreciate having an outfit like yours in the local area.
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> BTW, if you'd like to learn how EOSS has earned its 100% recovery rate out
> of 152 flights to date, come on out to one of our flights:
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7547. PARIS in hot glue gun action • The Regist er

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 18:30:34 UTC
From: Mike Manes
Topic: 7547 Message: 7547

Yet another way to built balloon payload enclosures:

http://www.theregister.co.uk/2010/07/06/paris_glue/

I've found hot-melt glue to work quite nicely with foamcore board. It's flexible enough to hang in thru a rough landing and tolerates low temps nicely as well.

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7548. Re: [GPSL] PARIS in hot glue gun action • The Regi ster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 18:34:51 UTC
From: L. Paul Verhage
Topic: 7547 Message: 7548

I've been using it since 1998. It's worked very well for me.

Paul

On Wed, Jul 7, 2010 at 1:30 PM, Mike Manes <mrmanes@...> wrote:

> Yet another way to built balloon payload enclosures:
>
> http://www.theregister.co.uk/2010/07/06/paris_glue/
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> I've found hot-melt glue to work quite nicely with foamcore
> board. It's flexible enough to hang in thru a rough landing
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

7549. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 18:48:51 UTC
From: Bruce Coates
Topic: 7541 Message: 7549

Hi Zack

Leigh and I couldn't make it this year due to some health issues. If it were streamed, I'd be glued to my screen. ;-)

73, Bruce & Leigh
VE5BNC & VE5LEE

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Wednesday, July 07, 2010 8:30 AM
Subject: Re: [GPSL] streaming video

I've toyed with the idea, but I don't have a definitive answer at this point.

The bigger question is probably whether or not there is sufficient interest from the community that won't be able to attend?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@gmail.com> wrote:

Is anyone planning to stream video of the GPSL 2010 conference?
If so, I may have to arrange for a vacation day so I can play along at home.

Rog KC0MWM

7550. Re: BASE 45 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 19:14:17 UTC
From: Freddy W
Topic: 7522 Message: 7550

It seems that BASE 44 and Base 45 were succesfull,
Are there more Photo's or video's going to be posted soon.

Freddy

--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:
>
> Dear friends,
>
> Today's flight was successfully completed. Launch occurred shortly after 9 am from the roof of our science building. I watched the balloon burst at 86,500 feet from a parking lot near US 231 and SR 32 in Crawfordsville. The system landed in eight foot tall corn at 40 degrees 8 minutes north and 86 degrees 56 minutes west. (According to my students, it was only 86 rows deep in the corn, that was fully tassled.)
>
> Still hope to fly once more before GPSL. Look forward to seeing everyone that can make it to Hutchinson.
>
> The no path digi on the 144.39 MHz every two minutes appears to have minimized our impact on the APRS infrastructure.
>
> Thanks for your support,
> Howard
>

7551. Re: [GPSL] Re: BASE 45 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 19:22:13 UTC
From: BASE
Topic: 7522 Message: 7551

I may get some video edited into reasonable chunks from BASE 44. BASE 45 was a video/photo free flight. The extra weight went into the geiger counter experiments.
Howard

--- On Wed, 7/7/10, Freddy W <frewi80@hotmail.com> wrote:

From: Freddy W <frewi80@...>
Subject: [GPSL] Re: BASE 45 completed
To: GPSL@yahoogroups.com
Date: Wednesday, July 7, 2010, 3:14 PM

It seems that BASE 44 and Base 45 were succesfull,

Are there more Photo's or video's going to be posted soon.

Freddy

--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:

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> Dear friends,

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> Today's flight was successfully completed. Launch occurred shortly after 9 am from the roof of our science building. I watched the balloon burst at 86,500 feet from a parking lot near US 231 and SR 32 in Crawfordsville. The system landed in eight foot tall corn at 40 degrees 8 minutes north and 86 degrees 56 minutes west. (According to my students, it was only 86 rows deep in the corn, that was fully tassled.)

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> Still hope to fly once more before GPSL. Look forward to seeing everyone that can make it to Hutchinson.

>

> The no path digi on the 144.39 MHz every two minutes appears to have minimized our impact on the APRS infrastructure.

>

> Thanks for your support,

> Howard

>

7552. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 19:30:22 UTC
From: L. Paul Verhage
Topic: 7541 Message: 7552

If we could, we can try to get participation from foreign countries like
Hawaii and Canada.
;)

Actually, it would be nice to broaden the audience.

Paul

On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates <bruce.coates@...>wrote:

>
>
> Hi Zack
>
> Leigh and I couldn't make it this year due to some health issues. If it
> were streamed, I'd be glued to my screen. ;-)
>
> 73, Bruce & Leigh
> VE5BNC & VE5LEE
>
>
> ----- Original Message -----
> *From:* Zack Clobes <zclobes@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wednesday, July 07, 2010 8:30 AM
> *Subject:* Re: [GPSL] streaming video
>
>
>
> I've toyed with the idea, but I don't have a definitive answer at this
> point.
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> The bigger question is probably whether or not there is sufficient interest
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> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
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> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@...> wrote:
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>>

>> Is anyone planning to stream video of the GPSL 2010 conference?
>> If so, I may have to arrange for a vacation day so I can play along at
>> home.
>>
>> Rog KC0MWM
>>
>
>
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>

--
Onwards and Upwards,
Paul

7553. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 19:38:00 UTC
From: Joe
Topic: 7547 Message: 7553
Attachments: 1 described; binary payloads are missing from this source WARC

ABSOLUTELY!

Our payloads are one piece molded styrofoam construction. But the attachment of all the equipment is done via Hot Melt Glue Gun. It holds great, and can easily removed with little to no damage.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/7/2010 1:30 PM, Mike Manes wrote:
> Yet another way to built balloon payload enclosures:
>
> http://www.theregister.co.uk/2010/07/06/paris_glue/
>
> I've found hot-melt glue to work quite nicely with foamcore
> board. It's flexible enough to hang in thru a rough landing
> and tolerates low temps nicely as well.
>
> 73 de Mike W5VSI
>

7554. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 20:03:38 UTC
From: Roger Hammond
Topic: 7541 Message: 7554

Looks like I may be planning a vacation day, a large mug of coffee, and my bunny slippers in front of the computer.

Rog KC0MWM

On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> If we could, we can try to get participation from foreign countries like
> Hawaii and Canada.
> ;)
>
> Actually, it would be nice to broaden the audience.
>
> Paul
>
> On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates <bruce.coates@...>wrote:
>
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>> Hi Zack
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>> Leigh and I couldn't make it this year due to some health issues. If it
>> were streamed, I'd be glued to my screen. ;-)
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>> *To:* GPSL@yahoogroups.com
>> *Sent:* Wednesday, July 07, 2010 8:30 AM
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>> The bigger question is probably whether or not there is sufficient
>> interest from the community that won't be able to attend?
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>>> Rog KC0MWM
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>> --
>> Onwards and Upwards,
>> Paul
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7555. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 20:21:55 UTC
From: L. Paul Verhage
Topic: 7541 Message: 7555

I have a contact in Poland and Germany who may be interested in attending virtually.

Paul

On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Looks like I may be planning a vacation day, a large mug of coffee, and my
> bunny slippers in front of the computer.
>
> Rog KC0MWM
>
>
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> On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage <nearsys@...>wrote:
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>> If we could, we can try to get participation from foreign countries like
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>> Actually, it would be nice to broaden the audience.
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>>> 73, Bruce & Leigh
>>> VE5BNC & VE5LEE
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>>> ----- Original Message -----
>>> *From:* Zack Clobes <zclobes@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Wednesday, July 07, 2010 8:30 AM

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Onwards and Upwards,
Paul
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7556. Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 21:26:48 UTC
From: Freddy W
Topic: 7541 Message: 7556

I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
Freddy

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
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> I have a contact in Poland and Germany who may be interested in attending
> virtually.
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> Paul
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> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond <kc0mwm@...> wrote:
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> > Looks like I may be planning a vacation day, a large mug of coffee, and my
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> >>> 73, Bruce & Leigh
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> >>> *From:* Zack Clobes <zclobes@...>
> >>> *To:* GPSL@yahoogroups.com
> >>> *Sent:* Wednesday, July 07, 2010 8:30 AM
> >>> *Subject:* Re: [GPSL] streaming video
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7557. RE: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 21:37:34 UTC
From: DON FRASER
Topic: 7541 Message: 7557

Count me in for a virtual seat.

And besides Hawaii, Poland and Germany, anyway to invite the UK guys?

Fianlly any suggestions on how to ask questions, say an nline chat room?

Don

WA9WWS/WI

To: GPSL@yahoogroups.com
From: frewi80@...
Date: Wed, 7 Jul 2010 21:26:48 +0000
Subject: [GPSL] Re: streaming video

I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
Freddy

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
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> >>> *To:* GPSL@yahoogroups.com
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7558. Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 22:07:57 UTC
From: Freddy W
Topic: 7541 Message: 7558

I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
Freddy

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> >>> 73, Bruce & Leigh
> >>> VE5BNC & VE5LEE
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> >>> ----- Original Message -----
> >>> *From:* Zack Clobes <zclobes@...>
> >>> *To:* GPSL@yahoogroups.com
> >>> *Sent:* Wednesday, July 07, 2010 8:30 AM
> >>> *Subject:* Re: [GPSL] streaming video
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> Onwards and Upwards,
> Paul
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7559. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 22:38:56 UTC
From: dvpatterson@comcast.net
Topic: 7541 Message: 7559

+1 interested... great idea to enable virtual attendance.

-David

----- Original Message -----
From: "Freddy W" <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, July 7, 2010 4:07:57 PM
Subject: [GPSL] Re: streaming video

I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
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> >> Hawaii and Canada.
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7560. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-07 23:11:58 UTC
From: Joe
Topic: 7541 Message: 7560
Attachments: 1 described; binary payloads are missing from this source WARC

another 2 here

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/7/2010 5:38 PM, dvpatterson@... wrote:
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> +1 interested... great idea to enable virtual attendance.
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> -David
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> From: "Freddy W" <frewi80@...>
> To: GPSL@yahoogroups.com
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> Subject: [GPSL] Re: streaming video
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> > >>> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@...> wrote:
> > >>>
> > >>>>
> > >>>>
> > >>>> Is anyone planning to stream! ! video of the GPSL 2010 conference?
> > >>>> If so, I may have to arrange for a vacation day so I can play
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> > >>>> home.
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> > >>>> Rog KC0MWM
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> > > Onwards and Upwards,
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7561. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:13:26 UTC
From: Mike Manes
Topic: 7541 Message: 7561

Hi Freddy,

From the sectional that we looked at, there's plenty of open airspace
in the norther half of Oahu. Don't sweat the A(lert) and W(arning) areas -
those are just places which may have activity that's hazardous to conventional
aircraft - but there's no law limiting penetration. Note the parachuting
areas on both W and E coasts on the northern tip of the island.

Or has your FAA contact simply put the kabosh on ya?

73 de Mike W5VSI
EOSS

On 7/7/2010 15:26, Freddy W wrote:
> I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM
local time here on the APRS map.
> I already spent a lot of $$ om equipment for a launch in Hawaii that never going to
happen :(To much ristricted airspace here.
> Freddy
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@...> wrote:
>>
>> I have a contact in Poland and Germany who may be interested in attending
>> virtually.
>>
>> Paul
>>
>> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond<kc0mwm@...> wrote:
>>
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>>>
>>> Looks like I may be planning a vacation day, a large mug of coffee, and my
>>> bunny slippers in front of the computer.
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>>> Rog KC0MWM
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>>>
>>> On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage<nearsys@...>wrote:
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>>>> If we could, we can try to get participation from foreign countries like
>>>> Hawaii and Canada.
>>>> ;)

>>>>
>>>> Actually, it would be nice to broaden the audience.
>>>>
>>>> Paul
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>>>> On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates<bruce.coates@...>wrote:
>>>>
>>>>>
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>>>>> Hi Zack
>>>>>
>>>>> Leigh and I couldn't make it this year due to some health issues. If it
>>>>> were streamed, I'd be glued to my screen. ;-)
>>>>>
>>>>> 73, Bruce& Leigh
>>>>> VE5BNC& VE5LEE
>>>>>
>>>>>
>>>>> ----- Original Message -----
>>>>> *From:* Zack Clobes<zclobes@...>
>>>>> *To:* GPSL@yahoogroups.com
>>>>> *Sent:* Wednesday, July 07, 2010 8:30 AM
>>>>> *Subject:* Re: [GPSL] streaming video
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>>>>> I've toyed with the idea, but I don't have a definitive answer at this
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>>>>> The bigger question is probably whether or not there is sufficient
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>>>>> Zack Clobes, W0ZC
>>>>> Project: Traveler
>>>>> www.projecttraveler.org
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>>>>> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond<kc0mwm@...> wrote:
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>> Onwards and Upwards,
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7562. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:16:06 UTC
From: Mike Manes
Topic: 7541 Message: 7562

Hi Don,

The BATC web site has an online chat feature to the right of the live TV image. It's pretty kewl, but you might have to ask how to set your callsign as an alias.

73 de Mike W5VSI

On 7/7/2010 15:37, DON FRASER wrote:
>
>
> Count me in for a virtual seat.
>
> And besides Hawaii, Poland and Germany, anyway to invite the UK guys?
>
> Fianlly any suggestions on how to ask questions, say an nline chat room?
>
> Don
> WA9WWS/WI
>
> ---
> To: GPSL@yahoogroups.com
> From: frewi80@...
> Date: Wed, 7 Jul 2010 21:26:48 +0000
> Subject: [GPSL] Re: streaming video
>
> I'm trying to attend every launch here in Hawaii even if it is around 2:00 or
> 3:00 AM local time here on the APRS map.
> I already spent a lot of $$ om equipment for a launch in Hawaii that never
> going to happen :(To much ristricted airspace here.
> Freddy
>
> --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, "L. Paul Verhage"
> <nearsys@...> wrote:
> >
> > I have a contact in Poland and Germany who may be interested in attending
> > virtually.
> >
> > Paul
> >
> > On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond <kc0mwm@...> wrote:
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> > >
> > >
> > > Looks like I may be planning a vacation day, a large mug of coffee, and my
> > > bunny slippers in front of the computer.

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> > > Rog KC0MWM
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> > > On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage <nearsys@...>wrote:
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> > >> Hawaii and Canada.
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> > >> Actually, it would be nice to broaden the audience.
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> > >> Paul
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> > >> On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates <bruce.coates@...>wrote:
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> > >>> Hi Zack
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> > >>> Leigh and I couldn't make it this year due to some health issues. If it
> > >>> were streamed, I'd be glued to my screen. ;-)
> > >>>
> > >>> 73, Bruce & Leigh
> > >>> VE5BNC & VE5LEE
> > >>>
> > >>>
> > >>> ----- Original Message -----
> > >>> *From:* Zack Clobes <zclobes@...>
> > >>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > >>> *Sent:* Wednesday, July 07, 2010 8:30 AM
> > >>> *Subject:* Re: [GPSL] streaming video
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> > >>>
> > >>>
> > >>> I've toyed with the idea, but I don't have a definitive answer at this
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> > >>>
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> > >>> Zack Clobes, W0ZC
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> > >>> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond <kc0mwm@...> wrote:
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7563. Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:19:21 UTC
From: Freddy W
Topic: 7541 Message: 7563

Hi Mike,
Thanks for the update.
I still have a lot of planning to do and I'm not going to rush it for now. Watching all the launches on the mainland and follow them on Aprs which is really great and a trill for me, even if it's 3:00 in the morning here. Love that country side, one day I'll come over for sure.
Nop the FAA did not get back at me yet, give them some more time, w'll see.
Thanks again.

Freddy

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Freddy,
>
> From the sectional that we looked at, there's plenty of open airspace
> in the norther half of Oahu. Don't sweat the A(lert) and W(arning) areas -
> those are just places which may have activity that's hazardous to conventional
> aircraft - but there's no law limiting penetration. Note the parachuting
> areas on both W and E coasts on the northern tip of the island.
>
> Or has your FAA contact simply put the kabosh on ya?
>
> 73 de Mike W5VSI
> EOSS
>
> On 7/7/2010 15:26, Freddy W wrote:
> > I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
> > I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
> > Freddy
> >
> > --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@> wrote:
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> >> I have a contact in Poland and Germany who may be interested in attending
> >> virtually.
> >>
> >> Paul
> >>
> >> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond<kc0mwm@> wrote:
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> >>>
> >>>
> >>> Looks like I may be planning a vacation day, a large mug of coffee, and my

> >>> bunny slippers in front of the computer.
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> >>>
> >>> On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage<nearsys@>wrote:
> >>>
> >>>>
> >>>> If we could, we can try to get participation from foreign countries like
> >>>> Hawaii and Canada.
> >>>> ;)
> >>>>
> >>>> Actually, it would be nice to broaden the audience.
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> >>>> Paul
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> >>>> On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates<bruce.coates@>wrote:
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> >>>>> Hi Zack
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> >>>>> Leigh and I couldn't make it this year due to some health issues. If it
> >>>>> were streamed, I'd be glued to my screen. ;-)
> >>>>>
> >>>>> 73, Bruce& Leigh
> >>>>> VE5BNC& VE5LEE
> >>>>>
> >>>>>
> >>>>> ----- Original Message -----
> >>>>> *From:* Zack Clobes<zclobes@>
> >>>>> *To:* GPSL@yahoogroups.com
> >>>>> *Sent:* Wednesday, July 07, 2010 8:30 AM
> >>>>> *Subject:* Re: [GPSL] streaming video
> >>>>>
> >>>>>
> >>>>>
> >>>>> I've toyed with the idea, but I don't have a definitive answer at this
> >>>>> point.
> >>>>>
> >>>>>
> >>>>> The bigger question is probably whether or not there is sufficient
> >>>>> interest from the community that won't be able to attend?
> >>>>>
> >>>>> Zack Clobes, W0ZC
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> >>>>> www.projecttraveler.org

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> >>>>> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond<kc0mwm@> wrote:
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> >>>>>> Is anyone planning to stream video of the GPSL 2010 conference?
> >>>>>> If so, I may have to arrange for a vacation day so I can play along at
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> > Yahoo! Groups Links
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> Mike Manes mrmanes@... Tel: 303-979-4899

> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

7564. Re: [GPSL] streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:35:02 UTC
From: wb8elk@aol.com
Topic: 7541 Message: 7564

Hi Roger...Yes, I'm planning to stream video like I did last year. www.batc.tv Click on Members Streams....then select: WB8ELK

- Bill WB8ELK

-----Original Message-----
From: Roger Hammond <kc0mwm@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Wed, Jul 7, 2010 9:23 am
Subject: [GPSL] streaming video

Is anyone planning to stream video of the GPSL 2010 conference?
If so, I may have to arrange for a vacation day so I can play along at home.

Rog KC0MWM

7565. GPSL Symposium on the Web

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:47:59 UTC
From: Zack Clobes
Topic: 7565 Message: 7565

Well, it certainly looks like there is some interested in a web presence, so we will give it a try. I have a WebEx account, and will tie the video and audio in, along with the PowerPoint slides. I will work on the logistics, but keep an eye on the GPSL Yahoo group for login information.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7566. [GPSL] streaming video at GPSL will happen both days

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:50:53 UTC
From: wb8elk@aol.com
Topic: 7541 Message: 7566

I plan to stream video for the entire conference on Friday as well as the Superlaunch and chase/recovery on Saturday.

www.batc.tv click on Members Streams....then select: WB8ELK

There is a Chat Room next to the video stream window.

- Bill WB8ELK

-----Original Message-----
From: DON FRASER <wa9wws@...>
To: GPSL <gpsl@yahoogroups.com>
Sent: Wed, Jul 7, 2010 4:37 pm
Subject: RE: [GPSL] Re: streaming video

Count me in for a virtual seat.

And besides Hawaii, Poland and Germany, anyway to invite the UK guys?

Fianlly any suggestions on how to ask questions, say an nline chat room?

Don
WA9WWS/WI

To: GPSL@yahoogroups.com
From: frewi80@hotmail.com
Date: Wed, 7 Jul 2010 21:26:48 +0000
Subject: [GPSL] Re: streaming video

I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
Freddy

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I have a contact in Poland and Germany who may be interested in attending
> virtually.
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> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond <kc0mwm@...> wrote:
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> >
> > Looks like I may be planning a vacation day, a large mug of coffee, and my
> > bunny slippers in front of the computer.

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> > Rog KC0MWM
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> > On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage <nearsys@...>wrote:
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> >> If we could, we can try to get participation from foreign countries like
> >> Hawaii and Canada.
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> >>>
> >>> 73, Bruce & Leigh
> >>> VE5BNC & VE5LEE
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> >>>
> >>> ----- Original Message -----
> >>> *From:* Zack Clobes <zclobes@...>
> >>> *To:* GPSL@yahoogroups.com
> >>> *Sent:* Wednesday, July 07, 2010 8:30 AM
> >>> *Subject:* Re: [GPSL] streaming video
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> >>> I've toyed with the idea, but I don't have a definitive answer at this
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> >>> The bigger question is probably whether or not there is sufficient
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> >>>> Is anyone planning to stream video of the GPSL 2010 conference?
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> > Onwards and Upwards,
> > Paul
> >

7567. Re: [GPSL] Hawaii

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:53:41 UTC
From: wb8elk@aol.com
Topic: 7541 Message: 7567

Freddy...you might consider the Big Island...that's where one company flies research balloons.

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Freddy W <frewi80@...>
Sent: Wed, Jul 7, 2010 8:13 pm
Subject: Re: [GPSL] Re: streaming video

Hi Freddy,

From the sectional that we looked at, there's plenty of open airspace
in the norther half of Oahu. Don't sweat the A(lert) and W(arning) areas -
those are just places which may have activity that's hazardous to conventional
aircraft - but there's no law limiting penetration. Note the parachuting
areas on both W and E coasts on the northern tip of the island.

Or has your FAA contact simply put the kabosh on ya?

73 de Mike W5VSI
EOSS

On 7/7/2010 15:26, Freddy W wrote:
> I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
> I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
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> --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@...> wrote:
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>> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond<kc0mwm@...> wrote:
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>>>> Hawaii and Canada.
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>>>>> *From:* Zack Clobes<zclobes@...>
>>>>> *To:* GPSL@yahoogroups.com
>>>>> *Sent:* Wednesday, July 07, 2010 8:30 AM
>>>>> *Subject:* Re: [GPSL] streaming video
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7568. Re: [GPSL] GPSL Symposium on the Web

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 01:55:49 UTC
From: wb8elk@aol.com
Topic: 7565 Message: 7568

Zack...I've used Webex....good idea for the conference...how many can join in at a time on Webex though?

- Bill

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Wed, Jul 7, 2010 8:47 pm
Subject: [GPSL] GPSL Symposium on the Web

Well, it certainly looks like there is some interested in a web presence, so we will give it a try. I have a WebEx account, and will tie the video and audio in, along with the PowerPoint slides. I will work on the logistics, but keep an eye on the GPSL Yahoo group for login information.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7569. Re: [GPSL] GPSL Symposium on the Web

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 02:00:53 UTC
From: Zack Clobes
Topic: 7565 Message: 7569

We can handle 25 simultaneous connections via WebEx.
Zack

On Wed, Jul 7, 2010 at 8:55 PM, <wb8elk@...> wrote:

>
>
> Zack...I've used Webex....good idea for the conference...how many can join
> in at a time on Webex though?
>
> - Bill
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com>
> Sent: Wed, Jul 7, 2010 8:47 pm
> Subject: [GPSL] GPSL Symposium on the Web
>
>
> Well, it certainly looks like there is some interested in a web presence,
> so we will give it a try. I have a WebEx account, and will tie the video
> and audio in, along with the PowerPoint slides. I will work on the
> logistics, but keep an eye on the GPSL Yahoo group for login information.
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> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>

7570. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 02:42:13 UTC
From: Joe
Topic: 7541 Message: 7570

On 7/7/2010 8:13 PM, Mike Manes wrote:
> Hi Freddy,
>
>
>
> Or has your FAA contact simply put the kabosh on ya?
>
> 73 de Mike W5VSI
> EOSS
> And if they did put the kabosh on ya, have them explain to you
> exactly what rule they are using to do so.

Joe WB9SBD

7571. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 03:53:52 UTC
From: Mike Manes
Topic: 7547 Message: 7571

Hi Joe,

Maybe you're using a lot cooler hot melt than I do. My experience hitting styrofoam with hot melt reminds me of the China Syndrome. The paper on the foamcore holds things in place, despite the glue boring deep into the foam.

I thought the drinking straw approach might be neat if one needed a scaffold structure of some type.

73 de Mike W5VSI

On 7/7/2010 13:38, Joe wrote:
> ABSOLUTELY!
>
> Our payloads are one piece molded styrofoam construction. But the attachment
> of all the equipment is done via Hot Melt Glue Gun. It holds great, and can
> easily removed with little to no damage.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/7/2010 1:30 PM, Mike Manes wrote:
>> Yet another way to built balloon payload enclosures:
>>
>> http://www.theregister.co.uk/2010/07/06/paris_glue/
>>
>> I've found hot-melt glue to work quite nicely with foamcore
>> board. It's flexible enough to hang in thru a rough landing
>> and tolerates low temps nicely as well.
>>
>> 73 de Mike W5VSI
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7572. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 15:17:49 UTC
From: Joe
Topic: 7547 Message: 7572
Attachments: 1 described; binary payloads are missing from this source WARC

See Below,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/7/2010 10:53 PM, Mike Manes wrote:
> Hi Joe,
>
> Maybe you're using a lot cooler hot melt than I do. My experience hitting
> styrofoam with hot melt reminds me of the China Syndrome. The paper on
> the foamcore holds things in place, despite the glue boring deep into the
> foam.
>
Really? Yes we have and do have some China Syndrome effect. But not
all that much. But maybe we do it differently? We put the glue on the
radio, PC board, battery or whatever is being mounted, and then it is
inserted into the box. Maybe it cools enough to avoid the massive
melting, yet is still soft and sticky enough to ensure a strong grab?
Worst case it, sinks into the foam a bit more he he he.
> I thought the drinking straw approach might be neat if one needed a scaffold
> structure of some type.
>
That is cool. I will have to remember that. I always wanted to try a
payload that was skeletal like that but never thought of a good and
strong way to make the framework without it being too heavy.

Reason was it was an experiment on keeping the payload warm. Of course
99% if not more traditional thought is Styrofoam, and as much as
possible. But what are we trying to do?

Keep the Heat loss down right? Also known as heat transfer.
Heat transfer is the transfer of heat from one place to another by
movement of energy. When an object is at a different temperature from
its surroundings or another object, transfer of thermal energy, also
known as heat flow, or heat exchange, occurs in such a way that the body
and the surroundings reach thermal equilibrium; this means that they are
at the same temperature. Heat transfer always occurs from a
higher-temperature object to a cooler-temperature one as described by
the second law of thermodynamics or the Clausius statement. Where there
is a temperature difference between objects in proximity, heat transfer
between them can never be stopped; it can only be decreased. One of the
reasons we use Styrofoam in our payloads. It is a good insulator,
blocks the flow of the heat energy, and is a lightweight frame structure.

Heat Transfer or "Loss" can happen three ways.

(Wikipedia is cool!)

1 Conduction
2 Convection
3 Radiation

Conduction

Conduction is the process of heat transfer through a medium or material without any movement of the medium or material. Conduction is also the transfer of heat by direct contact of particles of matter. The transfer of energy could be primarily by elastic impact as in fluids or by free electron diffusion as predominant in metals or phonon vibration as predominant in insulators.In other words, heat is transferred by conduction when adjacent atoms vibrate against one another, or as electrons move from one atom to another. Conduction is greater in solids, where a network of relatively fixed spacial relationships between atoms helps to transfer energy between them by vibration.

Heat conduction is directly analogous to diffusion of particles into a fluid, in the situation where there are no fluid currents. This type of heat diffusion differs from mass diffusion in behavior, only in as much as it can occur in solids, whereas mass diffusion is mostly limited to fluids.

Metals (e.g. copper, platinum, gold,etc.) are usually the best conductors of thermal energy. This is due to the way that metals are chemically bonded: metallic bonds (as opposed to covalent or ionic bonds) have free-moving electrons which are able to transfer thermal energy rapidly through the metal.

As density decreases so does conduction. Therefore, fluids (and especially gases) are less conductive. This is due to the large distance between atoms in a gas: fewer collisions between atoms means less conduction. Conductivity of gases increases with temperature. Conductivity increases with increasing pressure from vacuum up to a critical point that the density of the gas is such that molecules of the gas may be expected to collide with each other before they transfer heat from one surface to another. After this point in density, conductivity increases only slightly with increasing pressure and density.

Convection
Convection is the transfer of heat from one place to another by the movement of fluids. The presence of bulk motion of the fluid enhances the heat transfer between the solid surface and the fluid.

There are two types of convective heat transfer:

* Natural convection: when the fluid motion is caused by buoyancy forces that result from the density variations due to variations of temperature in the fluid. For example, in the absence of an external source, when the mass of the fluid is in contact with a hot surface, its

molecules separate and scatter, causing the mass of fluid to become less dense. When this happens, the fluid is displaced vertically or horizontally while the cooler fluid gets denser and the fluid sinks. Thus the hotter volume transfers heat towards the cooler volume of that fluid.

* Forced convection: when the fluid is forced to flow over the surface by external source such as fans and pumps, creating an artificially induced convection current.

Internal and external flow can also classify convection. Internal flow occurs when the fluid is enclosed by a solid boundary such as a flow through a pipe. An external flow occurs when the fluid extends indefinitely without encountering a solid surface. Both of these convections, either natural or forced, can be internal or external because they are independent of each other.

Radiation

Radiation is the transfer of heat energy through empty space. All objects with a temperature above absolute zero radiate energy at a rate equal to their emissivity multiplied by the rate at which energy would radiate from them if they were a black body. No medium is necessary for radiation to occur, for it is transferred through electromagnetic waves; radiation works even in and through a perfect vacuum. The energy from the Sun travels through the vacuum of space before warming the earth.

Now How does this all effect How heat is lost in a typical payload?

What are the ways heat is lost?

1 Conduction
2 Convection
3 Radiation

Well conduction is mainly in the form of heat sinks. The heating of the parts of the radio, and heat sinks. Anything in direct contact with the heat generating device. And of course all a heat sink is, is a way to enhance the other two ways heat is lost by Convection and Radiation, by expanding the surface area of the heat generating device. For the most part this is a fixed thing, we can not minimize this heat loss, other than by removing any heat sinks. but then we jeopardize the device from getting too hot also. It Sucks to be Goldilocks, It's either too hot or too cold, it's never just right! and not a lot we can do about it, other than not adding any more heat sinks. "Maybe"? "Maybe Not!" But of course the effectiveness of the heat sink depends on Convection. And Radiation.

Convection,
Now this is a very important one to think about in our payloads. The normal heat loss is to happen with a radio at sea level is all three modes. and in the triangle of convection the "Fluid" of transfer is

"Air" But at altitude this "Fluid" is missing, or at least it's density is greatly reduced. So that any heat transfer "Loss" is reduced greatly if not completely when at high altitudes. So this mode of heat loss is minimal at best.

So what's left Radiation,

Radiation is energy "Heat" loss directly to the depths of space, or at least to the payloads immediate surroundings. The amount of this loss of course all depends on the amount of "Heat" difference between the hot object and the "Space" around it. The "Hotter" it is the more pressure there is for the energy to try to radiate away. Kinda like voltage and a spark gap. So again we need to block this flow of energy with an insulator. But the problem is this mode of heat transfer requires nothing. It can do it's job just fine even in a total Vacuum!

But we need to block this flow. Think of Solar energy as this heat. and it is more or less, just different wavelengths. So light is this "Flow" of energy from a hotter object "Sun" to cooler areas and objects. Heat is mainly in the infrared portions of the spectrum.

Lighter colors and also whites and metallic substances absorb less illuminating light, and thus heat up less; but otherwise color makes small difference as regards heat transfer between an object at everyday temperatures and its surroundings, since the dominant emitted wavelengths are nowhere near the visible spectrum, but rather in the far infrared. Emissivities at those wavelengths have little to do with visual emissivities (visible colors); in the far infrared, most objects have high emissivities.

Thus, except in sunlight, the color of clothing makes little difference as regards warmth; likewise, paint color of houses makes little difference to warmth except when the painted part is sunlit.

The main exception to this is shiny metal surfaces, which have low emissivities both in the visible wavelengths and in the far infrared. Such surfaces can be used to reduce heat transfer in both directions; an example of this is the multi-layer insulation used to insulate spacecraft.

And That is exactly what I was thinking of building. Using a multi layered box made only of aluminized mylar. Stretched over a framework. Because think of it.

with the three modes of heat loss, Because of the vacuum, the only real mode of heat loss is from Radiation.

Conduction, (heatsinks) still use Convection and Radiation to dump the heat is is absorbing from the heat generating device, and if there is no Convection because of the Vacuum,,, there is only Radiation to be the one and only way we have heat loss in our payloads.

Just like a thermos bottle, a Dewars Flask.

A practical vacuum flask is a bottle made of metal, glass, or plastic with hollow walls; the narrow region between the inner and outer wall is evacuated of air.(Just like our payloads are evacuated of air,) Using vacuum as an insulator avoids heat transfer by conduction or convection. The only remaining method of heat loss is Radiation. Radiative heat loss can be minimized by applying a reflective coating to surfaces: Dewar used silver. At the temperatures for which vacuum flasks are used (usually below the boiling point of water), and with the use of reflective coatings, there is little infrared (radiative) transfer.

So in effectiveness (is that a word?) our payloads are flying thermos bottles! That is if we add shiny reflective coatings.

This would truly be an interesting experiment. construct two identical payloads,

with exactly the same two heat generating devices, attached to small heat sinks? but with temp measuring devices attached.

Place one in a standard thick 1 to 2 inch thick Styrofoam box, and the other is a simple several layer of mylar wrapped around it only and fly them and see how they run temp wise.

Now back onto heat loss. and sometimes we may have a payload that is 40 below inside, But the equipment still overheats!

WHAT?

Yup we actually have had this happen.! We flew our Crossband repeater the Standard C-528A

On the ground we have ran it for hours and hours at the 2.5 watt level and never had a problem.

In the payload of course we don't need that much power and run it at the 300 milliwatt level.

The first flight there wasn't a LOT of activity, and it worked flawlessly, But one thing we did notice on recovery was that the radio had separated from the hot melt glue. The glue was still tight in the Styrofoam, but almost none was on the radio. weird we thought.

The next flight we did with that radio was the infamous flight that beat the hell out of that radio,, because of the freqs we choose on that flight 146.52 and 446.000

the level of activity was well. incredible. the radio was at 100% duty cycle! You all know the feeling of a HT when talking for a long time, The case (heatsink) gets hot. And thats with just like 50% duty cycle. This was running 100% non stop. well, take that back 95%? i guess there are small pauses between transmissions.

almost 90 minutes of this transmission (80K feet) of course the box is easily below zero right now, But the repeater goes silent. upon

retrieval, we again find it separated from the hot melt, and even a
rubber part of the radio itself has separated from the radio and even
looks like it was somewhat melted even!

Thats when we thought about all the above stuff and heat loss. How was
this HT and it's heat sink(the case) to loose the heat it is generating?

Conduction?
Well a little, to the hot melt Glue, of course once thats melted away,
thats gone.

Convection?
Nope little here the Vacuum of space and all that.

All that leaves is radiation.

And the surface area of the heat sink (the case) isn't large enough to
Radiate the heat fast enough.

We added to the main heat area of the HT a thin. Plate of aluminum, 3"
wide by 8" long, to add in the surface area of the heat sink. To enhance
the radiation properties. And surface area.

The next flight that happened it again was near 100% duty cycle, but it
never stopped working.

so even if the payload is cold inside your equipment can still overheat.

The space blanket experiment still seems interesting.

Joe WB9SBD

> 73 de Mike W5VSI
>
> On 7/7/2010 13:38, Joe wrote:
>
>> ABSOLUTELY!
>>
>> Our payloads are one piece molded styrofoam construction. But the attachment
>> of all the equipment is done via Hot Melt Glue Gun. It holds great, and can
>> easily removed with little to no damage.
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 7/7/2010 1:30 PM, Mike Manes wrote:
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>>> http://www.theregister.co.uk/2010/07/06/paris_glue/
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>>> I've found hot-melt glue to work quite nicely with foamcore
>>> board. It's flexible enough to hang in thru a rough landing
>>> and tolerates low temps nicely as well.
>>>
>>> 73 de Mike W5VSI
>>>
>>>
>

7573. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-08 15:47:51 UTC
From: James Hannon
Topic: 7573 Message: 7573

Speaking of insulation, is anyone using the polyisocyanurate foam board? It is suppose to have a slightly higher R value than the polystyrene foam and has aluminum foil for radiation reflection.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL

7574. Re: [GPSL] Re: streaming video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 02:48:58 UTC
From: Mike Manes
Topic: 7541 Message: 7574

Hi Freddy,

Have you submitted a HiBal Notice per FAR-101 yet? If that yields no response, then perhaps the FAA really doesn't have any objections. But most likely, that will prompt a response, even if your HiBal is just a trial balloon, so to speak. Just be sure to cancel it at least a day in advance.

Here's some info on sectional charts, with links to online charts and tips on how to read them:

http://en.wikipedia.org/wiki/Sectional_chart

If you express some familiarity with terms in the sectionals, it'll help develop some confidence with the FAA folks that you've done your homework.

73 de Mike W5VSI

On 7/7/2010 19:19, Freddy W wrote:
> Hi Mike,
> Thanks for the update.
> I still have a lot of planning to do and I'm not going to rush it for now. Watching all the launches on the mainland and follow them on Aprs which is really great and a trill for me, even if it's 3:00 in the morning here. Love that country side, one day I'll come over for sure.
> Nop the FAA did not get back at me yet, give them some more time, w'll see.
> Thanks again.
>
> Freddy
>
> --- In GPSL@yahoogroups.com, Mike Manes<mrmanes@...> wrote:
>>
>> Hi Freddy,
>>
>> From the sectional that we looked at, there's plenty of open airspace
>> in the norther half of Oahu. Don't sweat the A(lert) and W(arning) areas -
>> those are just places which may have activity that's hazardous to conventional
>> aircraft - but there's no law limiting penetration. Note the parachuting
>> areas on both W and E coasts on the northern tip of the island.
>>
>> Or has your FAA contact simply put the kabosh on ya?
>>
>> 73 de Mike W5VSI
>> EOSS
>>
>> On 7/7/2010 15:26, Freddy W wrote:

>>> I'm trying to attend every launch here in Hawaii even if it is around 2:00 or 3:00 AM local time here on the APRS map.
>>> I already spent a lot of $$ om equipment for a launch in Hawaii that never going to happen :(To much ristricted airspace here.
>>> Freddy
>>>
>>> --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@> wrote:
>>>>
>>>> I have a contact in Poland and Germany who may be interested in attending
>>>> virtually.
>>>>
>>>> Paul
>>>>
>>>> On Wed, Jul 7, 2010 at 3:03 PM, Roger Hammond<kc0mwm@> wrote:
>>>>
>>>>>
>>>>>
>>>>> Looks like I may be planning a vacation day, a large mug of coffee, and my
>>>>> bunny slippers in front of the computer.
>>>>>
>>>>> Rog KC0MWM
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> On Wed, Jul 7, 2010 at 2:30 PM, L. Paul Verhage<nearsys@>wrote:
>>>>>
>>>>>>
>>>>>>
>>>>>> If we could, we can try to get participation from foreign countries like
>>>>>> Hawaii and Canada.
>>>>>> ;)
>>>>>>
>>>>>> Actually, it would be nice to broaden the audience.
>>>>>>
>>>>>> Paul
>>>>>>
>>>>>> On Wed, Jul 7, 2010 at 1:48 PM, Bruce Coates<bruce.coates@>wrote:
>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> Hi Zack
>>>>>>>
>>>>>>> Leigh and I couldn't make it this year due to some health issues. If it
>>>>>>> were streamed, I'd be glued to my screen. ;-)
>>>>>>>
>>>>>>> 73, Bruce& Leigh
>>>>>>> VE5BNC& VE5LEE
>>>>>>>
>>>>>>>

>>>>>>> ----- Original Message -----
>>>>>>> *From:* Zack Clobes<zclobes@>
>>>>>>> *To:* GPSL@yahoogroups.com
>>>>>>> *Sent:* Wednesday, July 07, 2010 8:30 AM
>>>>>>> *Subject:* Re: [GPSL] streaming video
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> I've toyed with the idea, but I don't have a definitive answer at this
>>>>>>> point.
>>>>>>>
>>>>>>>
>>>>>>> The bigger question is probably whether or not there is sufficient
>>>>>>> interest from the community that won't be able to attend?
>>>>>>>
>>>>>>> Zack Clobes, W0ZC
>>>>>>> Project: Traveler
>>>>>>> www.projecttraveler.org
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> On Wed, Jul 7, 2010 at 9:23 AM, Roger Hammond<kc0mwm@> wrote:
>>>>>>>
>>>>>>>>
>>>>>>>>
>>>>>>>> Is anyone planning to stream video of the GPSL 2010 conference?
>>>>>>>> If so, I may have to arrange for a vacation day so I can play along at
>>>>>>>> home.
>>>>>>>>
>>>>>>>> Rog KC0MWM
>>>>>>>>
>>>>>>>
>>>>>>>
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>>>>>>> --
>>>>>>> Onwards and Upwards,
>>>>>>> Paul
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>>>> --
>>>> Onwards and Upwards,
>>>> Paul
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
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A. Einstein

7575. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 03:37:45 UTC
From: Mike Manes
Topic: 7547 Message: 7575

Yeah, radiative heat transfer is about all you have if you're loitering
in the stratosphere. But if you're flying a properly inflated latex, then
there's still some forced convection on the outside of the payload enclosure,
and the "working fluid" is darn cold! Lots of folks have noticed that their
external air temp telemetry usually dips lower going thru the tropopause
during decent that it did on ascent - this is because descent airspeed at
that altitude is a lot greater than the typical 1000 fpm ascent, so the
convention coefficient is also larger, thus coupling the temp sensor more
closely to the ambient air.

One way to handle heat sinking in the absence of convection is by providing
a large area heat sink, preferably painted with carbon black pigment paint.
Note that black anodize, as found on some commercial heat sinks, looks
white at IR, so it doesn't radiate well. Just paint it with carbon black,
and point it towards an external payload wall, maybe also painted black.

The rate of radiative transfer varies as the 4th power of temperature
difference, so it does pretty well.

73 de Mike W5VSI

On 7/8/2010 09:17, Joe wrote:
> fer of heat from one place to another by movement of energy. When an object is
> at a different temperature from its surroundings or another object, transfer

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7576. Re: [GPSL] PARIS in hot glue gun action • The Re gister

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 03:42:22 UTC
From: Mike Manes
Topic: 7573 Message: 7576

I've got some, but it's got a bare foam surface on one side, so it
doesn't form up as neatly as standard double-sided foam core. If you
need a higher R value, get thicker foamcore, or line it with thin
bubble wrap. Kitchen-grade Al foil can be bonded nicely and quickly to
foamcore using ordinary Elmer's glue.

73 de Mike W5VSI

On 7/8/2010 09:47, James Hannon wrote:
>
>
> Speaking of insulation, is anyone using the polyisocyanurate foam board? It is
> suppose to have a slightly higher R value than the polystyrene foam and has
> aluminum foil for radiation reflection.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7577. Re: [GPSL] PARIS in hot glue gun action • The Regi ster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 13:47:01 UTC
From: L. Paul Verhage
Topic: 7573 Message: 7577

I'll use the space blanket you can buy at camping stores. It gives the near spacecraft more a spacecraft look.

I'll also layer it with scrim (wedding veil material) to make multi-layer insulation.

Paul

On Thu, Jul 8, 2010 at 10:42 PM, Mike Manes <mrmanes@...> wrote:

> I've got some, but it's got a bare foam surface on one side, so it
> doesn't form up as neatly as standard double-sided foam core. If you
> need a higher R value, get thicker foamcore, or line it with thin
> bubble wrap. Kitchen-grade Al foil can be bonded nicely and quickly to
> foamcore using ordinary Elmer's glue.
>
> 73 de Mike W5VSI
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> On 7/8/2010 09:47, James Hannon wrote:
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> > http://www.fmtcs.com/web/jmhannon/
> > 42,11.90N,91,39.26W
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> A. Einstein
>
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> Yahoo! Groups Links
>
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>

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Onwards and Upwards,
Paul

7578. Re: [GPSL] PARIS in hot glue gun action • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 14:10:47 UTC
From: Joe
Topic: 7573 Message: 7578
Attachments: 1 described; binary payloads are missing from this source WARC

Too bad you can't get the Gold colored stuff. then it REALLY would
look spacecraft like.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/9/2010 8:47 AM, L. Paul Verhage wrote:
>
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> I'll use the space blanket you can buy at camping stores. It gives
> the near spacecraft more a spacecraft look.
> I'll also layer it with scrim (wedding veil material) to make
> multi-layer insulation.
> Paul
>
> On Thu, Jul 8, 2010 at 10:42 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> I've got some, but it's got a bare foam surface on one side, so it
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> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
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>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Onwards and Upwards,
> Paul
>
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7579. Re: [GPSL] PARIS in hot glue gun action • The Regi ster

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 14:14:50 UTC
From: L. Paul Verhage
Topic: 7573 Message: 7579
Attachments: 1 described; binary payloads are missing from this source WARC

I have a source of that. The Cosmosphere sells it in their gift department.

I purchase a packet last year and sell it in my BalloonSat kit.

The yellow stuff in real life if Kapton plastic with a coating of aluminum. Kapton is yellow in color. Kapton tape is also used to hold together MLI (along with sewing). I've experimented with this stuff and it can be fun to make. I'm just not sure our vacuum is hard enough to make it very effective. Tests show it does have an effect and they use it for cyro systems.

Paul

On Fri, Jul 9, 2010 at 9:10 AM, Joe <nss@...> wrote:

> Too bad you can't get the Gold colored stuff. then it REALLY would look
> spacecraft like.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
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>> > 42,11.90N,91,39.26W
>> > WB0TXL
>> >
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>> >
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>> >
>> >>>>
>> >>
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>> >
>>
>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
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>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

--
Onwards and Upwards,
Paul

7580. GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 14:27:14 UTC
From: HarryM
Topic: 7580 Message: 7580

Has someone published the GPSL flight frequecies and time slots for each group that will be flying?

If not, would you do that please!

---
73 Harry KC5TRB

7581. Fwd: [Ballooning] KD7LMO.net site is now available

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 19:22:28 UTC
From: Mike Manes
Topic: 7581 Message: 7581

That's great news! Mike Gray was ANSR's key payload developer and
built some pretty nifty stuff.

73 de Mike W5VSI

-------- Original Message --------
Subject: [Ballooning] KD7LMO.net site is now available
Date: Fri, 09 Jul 2010 07:04:03 -0000
From: Darrell <compassing@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

ANSR now provides a link to a copy of the late Michael Gray's website. Follow
the "Flight Archives" tab at www.ansr.org.

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

7582. Re: Fwd: [Ballooning] KD7LMO.net site is now available

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 20:00:34 UTC
From: James
Topic: 7581 Message: 7582

Very true Mike,

He made a huge contribution to HAB, Space Grant, S.T.E.M. and Amateur Radio and especially ANSR.

Thank you for your comment and the cross-post to this group.

Regards,
James AC7ZT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> That's great news! Mike Gray was ANSR's key payload developer and
> built some pretty nifty stuff.
>
>
> 73 de Mike W5VSI
>
> -------- Original Message --------
> Subject: [Ballooning] KD7LMO.net site is now available
> Date: Fri, 09 Jul 2010 07:04:03 -0000
> From: Darrell <compassing@...>
> Reply-To: Ballooning@yahoogroups.com
> To: Ballooning@yahoogroups.com
>
> ANSR now provides a link to a copy of the late Michael Gray's website. Follow
> the "Flight Archives" tab at www.ansr.org.
>
>
>
>
> ------------------------------------
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>

> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
>

7583. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 20:05:01 UTC
From: wb8elk@aol.com
Topic: 7580 Message: 7583

APRS on 144.39: WB8ELK-11
APRS on alternate frequency (144.34 or 144.36?): WB8ELK-10
DominoEX22/300 baud ASCII RTTY/Hellscreiber/CW on either 144.31, 144.34 or 144.36 (it's frequency agile so can go anywhere if conflicts).

434 MHz Fast Scan ATV

- Bill WB8ELK

-----Original Message-----
From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Fri, Jul 9, 2010 9:27 am
Subject: [GPSL] GPSL Flight Freq's and Time Slots

Has someone published the GPSL flight frequecies and time slots for each group that will be flying?

If not, would you do that please!

---
73 Harry KC5TRB

7584. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 20:54:52 UTC
From: Mike Manes
Topic: 7580 Message: 7584

EOSS will be flying APRS on 144.34 slotted at 0:00 and 0:30, and a DF
beacon on 145.600. Nothing more - going light this time.

73 de Mike W5VSI

On 7/9/2010 08:27, HarryM wrote:
>
>
> Has someone published the GPSL flight frequecies and time slots for each group
> that will be flying?
> If not, would you do that please!
> -----
> 73 Harry KC5TRB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7585. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 20:57:10 UTC
From: L. Paul Verhage
Topic: 7580 Message: 7585

NearSys will transmit at 144.39 and :15.

Paul

On Fri, Jul 9, 2010 at 3:54 PM, Mike Manes <mrmanes@...> wrote:

> EOSS will be flying APRS on 144.34 slotted at 0:00 and 0:30, and a DF
> beacon on 145.600. Nothing more - going light this time.
>
> 73 de Mike W5VSI
>
> On 7/9/2010 08:27, HarryM wrote:
> >
> >
> > Has someone published the GPSL flight frequecies and time slots for each
> group
> > that will be flying?
> > If not, would you do that please!
> > -----
> > 73 Harry KC5TRB
> >
> >
> >
> >
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

--
Onwards and Upwards,
Paul

7586. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 21:16:31 UTC
From: HarryM
Topic: 7580 Message: 7586

I thought we already went through submitting our flight freq's.
I was looking for the official list.

ORB
APRS KC5TRB-11 - 144.340 Slotted 00:10 & 00:40
CW BCN - 147.425 or 147.435 ?

7587. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 23:22:28 UTC
From: natewac@aol.com
Topic: 7580 Message: 7587

Where are the balloons launching from (city,state or co-ordinance)??? I'd like to see if I can hear'm.

-----Original Message-----
From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Fri, Jul 9, 2010 5:16 pm
Subject: Re: [GPSL] GPSL Flight Freq's and Time Slots

I thought we already went through submitting our flight freq's.
I was looking for the official list.

ORB
APRS KC5TRB-11 - 144.340 Slotted 00:10 & 00:40
CW BCN - 147.425 or 147.435 ?

=

7588. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 23:34:53 UTC
From: HarryM
Topic: 7580 Message: 7588

Go here for all the info...
http://nearspaceventures.com/gpsl2009/

Where are the balloons launching from (city,state or co-ordinance)??? I'd like to see if I can hear'm.

7589. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-09 23:35:10 UTC
From: Mike Manes
Topic: 7580 Message: 7589

Vicinity of Hutchinson KS

On 7/9/2010 17:22, natewac@... wrote:
>
>
> Where are the balloons launching from (city,state or co-ordinance)??? I'd like
> to see if I can hear'm.
>
>
>
>
> -----Original Message-----
> From: HarryM <hhm_74115@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Jul 9, 2010 5:16 pm
> Subject: Re: [GPSL] GPSL Flight Freq's and Time Slots
>
> I thought we already went through submitting our flight freq's.
> I was looking for the official list.
> ORB
> APRS KC5TRB-11 - 144.340 Slotted 00:10 & 00:40
> CW BCN - 147.425 or 147.435 ?
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7590. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-10 01:10:47 UTC
From: Zack Clobes
Topic: 7580 Message: 7590

Frequency and slot allocations is next on my list. If you haven't already,
please make sure you fill out the Flight Information survey ASAP.

http://spreadsheets.google.com/viewform?formkey=dHp2VU1kTndzMi03TGNDdGd6RUkxVGc6MQ

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Fri, Jul 9, 2010 at 6:35 PM, Mike Manes <mrmanes@...> wrote:

>
>
> Vicinity of Hutchinson KS
>
>
> On 7/9/2010 17:22, natewac@... <natewac%40aol.com> wrote:
> >
> >
> > Where are the balloons launching from (city,state or co-ordinance)??? I'd
> like
> > to see if I can hear'm.
> >
> >
> >
> >
> > -----Original Message-----
> > From: HarryM <hhm_74115@... <hhm_74115%40cox.net>>
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Sent: Fri, Jul 9, 2010 5:16 pm
> > Subject: Re: [GPSL] GPSL Flight Freq's and Time Slots
> >
> > I thought we already went through submitting our flight freq's.
> > I was looking for the official list.
> > ORB
> > APRS KC5TRB-11 - 144.340 Slotted 00:10 & 00:40
> > CW BCN - 147.425 or 147.435 ?
> >
> >
> >
> >
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

>

7591. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-10 03:46:14 UTC
From: natewac@aol.com
Topic: 7580 Message: 7591

Thanks.....But I would think just a bit too far away from Toledo,Ohio.
Thanks again for the reply.

N8WAC

7592. Re: [GPSL] GPSL Flight Freq's and Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-10 22:51:47 UTC
From: HarryM
Topic: 7580 Message: 7592

I forgot about the survey. I think I filled it out, but it's been too long ago and too many synaptic shorts have occurred.

Harry

Frequency and slot allocations is next on my list. If you haven't already, please make sure you fill out the Flight Information survey ASAP.

http://spreadsheets.google.com/viewform?formkey=dHp2VU1kTndzMi03TGNDdGd6RUkxVGc6MQ

7593. NSTAR 10-A photos posted

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-12 00:47:19 UTC
From: Mark Conner
Topic: 7593 Message: 7593

http://picasaweb.google.com/mconner1/NSTAR10AAerialPhotos#
http://picasaweb.google.com/mconner1/NSTAR10AGroundPhotos#

Thanks to Chuck KD0BWI who contributed some of the ground photos. I hope to have some video clips posted soon.

73 de Mark N9XTN

7594. ARHAB twitter account

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-12 02:08:06 UTC
From: ronald74
Topic: 7594 Message: 7594

I set up the ARHAB twitter account a year ago and I appreciate it seeing it tight on the GPSL website, but it appears when I handed it over to the ARHAB website owner at the time, it really has not seen any new tweets. If someone who has the new ownership to it wishes help with it I would be happy to keep it updated with information.

Thanks, Ron aprsdash9@...

7595. Long range forecast for the 24th

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-13 00:50:35 UTC
From: Mark Conner
Topic: 7595 Message: 7595

Looks like it should be hot and humid, but only a minimal threat of thunderstorms and any that form are likely to be in the afternoon. The jet stream will be pushed well north into Canada and it's unlikely any frontal systems will be passing through southern Kansas late next week.

Winds below 50,000 ft will generally be light from the south. The high-level winds will be from the east, so at this point I think landings will be WNW of the launch site. The situation may be similar to GPSL 2002 from Herington, where the balloons initially traveled north a few miles, then west until burst.

Wish I could come down this year but I've already used up a lot of my vacation days for other balloon activities.

73 de Mark N9XTN

7596. Quick Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-13 02:20:27 UTC
From: Zack Clobes
Topic: 7596 Message: 7596

Regarding the time slots and current flight configs, I thought that I could just copy/past my data into an email, but it re-sorted the columns for me (thank you very much Google), and it's going to take a bit to get them straightened back out. I will try to get a full list posted tomorrow, but currently I have the following groups/balloons with information:

Near Space Ventures
Dryden Engineering
EOSS
ROBOMO
ARBONET - 6/15/10
WB8ELK
ROBOMO
Nick Stich / K0NMS

I had the privilege to visit SparkFun last week, and got to meet the owner Nate who was the one who posted about his most recent HAB project. I'm bad with names, but I believe it was Dave who was giving the tour and has also flown some HAB.

SparkFun DID donate two additional prizes to GPSL 2010. I'm keeping them out of arms reach for now... I sure hope the dog doesn't eat them or anything.. :-)

I also have about 60 copies each of Circuit Cellar and Elektor magazines that will go to the first 60 through the doors on Friday!

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7597. Re: [GPSL] Long range forecast for the 24th

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-13 14:56:49 UTC
From: HarryM
Topic: 7595 Message: 7597

Thanks for the WX update Mark.
Sorry to hear you won't be there this year.

73 Harry KC5TRB

> Subject: [GPSL] Long range forecast for the 24th

7598. Re: [GPSL] Quick Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-13 15:45:32 UTC
From: HarryM
Topic: 7596 Message: 7598

Mark, I filled out both of the online surveys last night with the current info. I don't remember if I filled them out in the past or not.

73 Harry KC5TRB

7599. Re: [GPSL] Quick Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-13 18:09:39 UTC
From: L. Paul Verhage
Topic: 7596 Message: 7599

Put NearSys down for 144.390 at 15 seconds after.

Paul

On Mon, Jul 12, 2010 at 9:20 PM, Zack Clobes <zclobes@...> wrote:

>
>
> Regarding the time slots and current flight configs, I thought that I could
> just copy/past my data into an email, but it re-sorted the columns for me
> (thank you very much Google), and it's going to take a bit to get them
> straightened back out. I will try to get a full list posted tomorrow, but
> currently I have the following groups/balloons with information:
>
> Near Space Ventures
> Dryden Engineering
> EOSS
> ROBOMO
> ARBONET - 6/15/10
> WB8ELK
> ROBOMO
> Nick Stich / K0NMS
>
>
> I had the privilege to visit SparkFun last week, and got to meet the owner
> Nate who was the one who posted about his most recent HAB project. I'm bad
> with names, but I believe it was Dave who was giving the tour and has also
> flown some HAB.
>
> SparkFun DID donate two additional prizes to GPSL 2010. I'm keeping them
> out of arms reach for now... I sure hope the dog doesn't eat them or
> anything.. :-)
>
> I also have about 60 copies each of Circuit Cellar and Elektor magazines
> that will go to the first 60 through the doors on Friday!
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

--
Onwards and Upwards,

Paul

7600. BASE 46

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 00:56:59 UTC
From: BASE
Topic: 7600 Message: 7600

Dear friends,

BASE 46 will fly on Thursday, 15 July 2010. Launch will be approximately 1400 UTC (10 am Eastern Daylight Time) from the Northmont Schools, Crawfordsville, Indiana (40.11 N,86.91 W). We may launch earlier, if we're ready. Thunderstorms are forecast for the late afternoon and it would be nice to be out of the field by then.

Again, we will fly APRS on 144.39 MHz using no path and two minute intervals to minimize our footprint.

Predicted landing, assuming 85 kft burst with 1000 ft/min ascent, is about 15 miles at a heading of 100 degrees from the launch site. Hopefully we can find a bean field, but corn is better than trees.

Thanks for your support,
Howard

7601. WX Alert

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 22:36:35 UTC
From: HarryM
Topic: 7601 Message: 7601

I hope the WX retreats a little for GPSL from the current 90-100 degF, high humidity & dewpoint. If the current conditions stay in place it will make for sweltering recoveries, especially if we have to truck across country. Make sure you bring plenty of water and/or other hydration fluids.

Hutch airport is at 1543 ft and the density altitude right now is 4500 ft.

73 Harry KC5TRB

7602. Re: [GPSL] WX Alert

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:10:23 UTC
From: Mark Conner
Topic: 7601 Message: 7602

Right now it doesn't look like it will - expecting mid-90s in the afternoons with dewpoints in the high 60s to low 70s for the 24th.

Here in Omaha today we had temps at 93-95 with a dewpoint in the low 80s. Ugh.

73 de Mark N9XTN

On Wed, Jul 14, 2010 at 17:36, HarryM <hhm_74115@...> wrote:

>
>
> I hope the WX retreats a little for GPSL from the current 90-100 degF, high
> humidity & dewpoint. If the current conditions stay in place it will make
> for sweltering recoveries, especially if we have to truck across country.
> Make sure you bring plenty of water and/or other hydration fluids.
>
> Hutch airport is at 1543 ft and the density altitude right now is 4500 ft.
>
> 73 Harry KC5TRB
>
>
>
>

7603. Re: [KNSP] Log analysis from NSTAR 10-A

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:14:39 UTC
From: Zack Clobes
Topic: 7603 Message: 7603

The oscillator could have stopped... Condensation, mechanical disconnect, temperature?

Zack

On Wed, Jul 14, 2010 at 5:57 PM, Mark Conner <mconner1@gmail.com> wrote:

>
>
> We had something unusual happen which caused the position reports to stop
> during the last minutes of descent on our previous flight. At first I
> thought it was the radio but after looking at the log data I believe it was
> the Basic Stamp 2p. No log data was recorded between 16:54:46 and 17:53:53
> UTC (59 minutes 7 seconds). The Stamp did not stop, otherwise it would have
> started the program over and recorded over the early log entries. Instead,
> it just plain stopped for almost an hour, then resumed logging right where
> it left off.
>
> If the GPS had failed, the program would have continued to cause radio
> transmissions, sending an APRS bulletin every 15 seconds or so saying the
> GPS was not working. We got zero transmissions, though - no weak packets,
> no nothing.
>
> I'm not at all sure what would cause this - it's never happened either in
> bench testing or in flight. I suppose there could be some obscure
> programming error that caused it to enter an extremely long
> do-nothing-useful loop, but I don't believe that's possible.
>
> 73 de Mark N9XTN
>
>
>
>
>

7604. Re: [GPSL] WX Alert

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:16:00 UTC
From: Zack Clobes
Topic: 7601 Message: 7604

Yeah, Hutch has pretty much sucked the past few days - ever since I got back from the 40's in the mountains.. :-)

Zack

On Wed, Jul 14, 2010 at 6:10 PM, Mark Conner <mconner1@...> wrote:

>
>
> Right now it doesn't look like it will - expecting mid-90s in the
> afternoons with dewpoints in the high 60s to low 70s for the 24th.
>
> Here in Omaha today we had temps at 93-95 with a dewpoint in the low 80s.
> Ugh.
>
> 73 de Mark N9XTN
>
>
> On Wed, Jul 14, 2010 at 17:36, HarryM <hhm_74115@...> wrote:
>
>>
>>
>> I hope the WX retreats a little for GPSL from the current 90-100 degF,
>> high humidity & dewpoint. If the current conditions stay in place it will
>> make for sweltering recoveries, especially if we have to truck across
>> country. Make sure you bring plenty of water and/or other hydration fluids.
>>
>> Hutch airport is at 1543 ft and the density altitude right now is 4500 ft.
>>
>> 73 Harry KC5TRB
>>
>>
>>
>>
>
>

7605. Re: [GPSL] Re: [KNSP] Log analysis from NSTAR 10-A

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:19:53 UTC
From: Mark Conner
Topic: 7603 Message: 7605

Condensation is possible - we launched in a light rain and the glitch occurred at 13,000 ft on descent, after the payload was cold-soaked and descending into a moist layer. Internal temps were not unusual and the oscillator is an SMD right on the stamp itself.

73 de Mark N9XTN

On Wed, Jul 14, 2010 at 18:14, Zack Clobes <zclobes@...> wrote:

>
>
> The oscillator could have stopped... Condensation, mechanical disconnect,
> temperature?
>
> Zack
>
>
> On Wed, Jul 14, 2010 at 5:57 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> We had something unusual happen which caused the position reports to stop
>> during the last minutes of descent on our previous flight. At first I
>> thought it was the radio but after looking at the log data I believe it was
>> the Basic Stamp 2p. No log data was recorded between 16:54:46 and 17:53:53
>> UTC (59 minutes 7 seconds). The Stamp did not stop, otherwise it would have
>> started the program over and recorded over the early log entries. Instead,
>> it just plain stopped for almost an hour, then resumed logging right where
>> it left off.
>>
>> If the GPS had failed, the program would have continued to cause radio
>> transmissions, sending an APRS bulletin every 15 seconds or so saying the
>> GPS was not working. We got zero transmissions, though - no weak packets,
>> no nothing.
>>
>> I'm not at all sure what would cause this - it's never happened either in
>> bench testing or in flight. I suppose there could be some obscure
>> programming error that caused it to enter an extremely long
>> do-nothing-useful loop, but I don't believe that's possible.
>>
>> 73 de Mark N9XTN
>>
>>
>>
>>
>>
>

>
>

7606. Re: [GPSL] WX Alert

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:23:46 UTC
From: HarryM
Topic: 7601 Message: 7606

Mark & Zack,

Tulsa has been the same. Last night at 11pm the
temp was 88, humidity 77 and the dewpoint was 80.
I'm glad I don't have to spend any time outside!

73 Harry

7607. Re: [GPSL] Re: [KNSP] Log analysis from NSTAR 10-A

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:23:21 UTC
From: Zack Clobes
Topic: 7603 Message: 7607

That's almost exactly what happened on our very first flight. In our case though, it was a through-hole ceramic resonator on a homemade PCB. I believe that it started back up right after impact, presumably after the water was knocked off the board.

Ever since the, we always put conformal coating on our boards before the fly.

Zack

On Wed, Jul 14, 2010 at 6:19 PM, Mark Conner <mconner1@...> wrote:

>
>
> Condensation is possible - we launched in a light rain and the glitch
> occurred at 13,000 ft on descent, after the payload was cold-soaked and
> descending into a moist layer. Internal temps were not unusual and the
> oscillator is an SMD right on the stamp itself.
>
> 73 de Mark N9XTN
>
>
> On Wed, Jul 14, 2010 at 18:14, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> The oscillator could have stopped... Condensation, mechanical disconnect,
>> temperature?
>>
>> Zack
>>
>>
>> On Wed, Jul 14, 2010 at 5:57 PM, Mark Conner <mconner1@...> wrote:
>>
>>>
>>>
>>> We had something unusual happen which caused the position reports to stop
>>> during the last minutes of descent on our previous flight. At first I
>>> thought it was the radio but after looking at the log data I believe it was
>>> the Basic Stamp 2p. No log data was recorded between 16:54:46 and 17:53:53
>>> UTC (59 minutes 7 seconds). The Stamp did not stop, otherwise it would have
>>> started the program over and recorded over the early log entries. Instead,
>>> it just plain stopped for almost an hour, then resumed logging right where
>>> it left off.
>>>
>>> If the GPS had failed, the program would have continued to cause radio

>>> transmissions, sending an APRS bulletin every 15 seconds or so saying the
>>> GPS was not working. We got zero transmissions, though - no weak packets,
>>> no nothing.
>>>
>>> I'm not at all sure what would cause this - it's never happened either in
>>> bench testing or in flight. I suppose there could be some obscure
>>> programming error that caused it to enter an extremely long
>>> do-nothing-useful loop, but I don't believe that's possible.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>>
>>>
>>
>>
>>
>
>

7608. Re: [GPSL] Re: [KNSP] Log analysis from NSTAR 10-A

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-14 23:30:59 UTC
From: Mark Conner
Topic: 7603 Message: 7608

I'll look to see if the BS2 has a coating. Don't think so.

We've had a number of flights where the interior of the payload had plenty
of condensation with no ill effects, but maybe this was worse.

73 de Mark N9XTN

On Wed, Jul 14, 2010 at 18:23, Zack Clobes <zclobes@...> wrote:

>
>
> That's almost exactly what happened on our very first flight. In our case
> though, it was a through-hole ceramic resonator on a homemade PCB. I
> believe that it started back up right after impact, presumably after the
> water was knocked off the board.
>
> Ever since the, we always put conformal coating on our boards before the
> fly.
>
> Zack
>
>
> On Wed, Jul 14, 2010 at 6:19 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> Condensation is possible - we launched in a light rain and the glitch
>> occurred at 13,000 ft on descent, after the payload was cold-soaked and
>> descending into a moist layer. Internal temps were not unusual and the
>> oscillator is an SMD right on the stamp itself.
>>
>> 73 de Mark N9XTN
>>
>>
>> On Wed, Jul 14, 2010 at 18:14, Zack Clobes <zclobes@...> wrote:
>>
>>>
>>>
>>> The oscillator could have stopped... Condensation, mechanical
>>> disconnect, temperature?
>>>
>>> Zack
>>>
>>>
>>> On Wed, Jul 14, 2010 at 5:57 PM, Mark Conner <mconner1@...> wrote:
>>>

>>>>
>>>>
>>>> We had something unusual happen which caused the position reports to
>>>> stop during the last minutes of descent on our previous flight. At first I
>>>> thought it was the radio but after looking at the log data I believe it was
>>>> the Basic Stamp 2p. No log data was recorded between 16:54:46 and 17:53:53
>>>> UTC (59 minutes 7 seconds). The Stamp did not stop, otherwise it would have
>>>> started the program over and recorded over the early log entries. Instead,
>>>> it just plain stopped for almost an hour, then resumed logging right where
>>>> it left off.
>>>>
>>>> If the GPS had failed, the program would have continued to cause radio
>>>> transmissions, sending an APRS bulletin every 15 seconds or so saying the
>>>> GPS was not working. We got zero transmissions, though - no weak packets,
>>>> no nothing.
>>>>
>>>> I'm not at all sure what would cause this - it's never happened either
>>>> in bench testing or in flight. I suppose there could be some obscure
>>>> programming error that caused it to enter an extremely long
>>>> do-nothing-useful loop, but I don't believe that's possible.
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>>
>>>>
>>>>
>>>
>>>
>>>
>>
>
>
>
>

7609. Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-15 00:24:03 UTC
From: Zack Clobes
Topic: 7609 Message: 7609

OK, the long awaited slots list... There were a couple of you that requested specific slots already, but I had to adjust them slightly in order to fit everyone in. If this can't be done, please let me know ASAP and I'll try to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to the .39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter on frequency, not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler, Nearsys). If you're not on this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch.org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7610. RE: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-15 05:20:20 UTC
From: Marty Griffin
Topic: 7609 Message: 7610

Hi Zack,

Great job on the organization. Could we ask that a page be made available with the full names of the groups, acronyms, names of one of the principals and their home location and any other data that would be fun. Just one more thing, eh? You probably have it already. Thanks again

- Marty, EOSS

From: Zack Clobes [mailto:zclobes@...]
Sent: Wednesday, July 14, 2010 6:24 PM
To: Group GPSL
Subject: [GPSL] Time Slots

OK, the long awaited slots list... There were a couple of you that requested specific slots already, but I had to adjust them slightly in order to fit everyone in. If this can't be done, please let me know ASAP and I'll try to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to the .39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter on frequency, not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler, Nearsys). If you're not on this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch.org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7611. Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-15 15:06:45 UTC
From: HarryM
Topic: 7609 Message: 7611

Orb is AOK with the assigned time slot of :18 to :23 and :48 to :53.

Harry KC5TRB

> OK, the long awaited slots list...

7612. BASE 46

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-15 19:48:17 UTC
From: BASE
Topic: 7600 Message: 7612

Dear friends,

After a normal fill with more than the indicated lift weight of 9 pounds, for the 6.75 pound payload, the flight string was released at 1403 UTC. There were approximately 10 mile per hour winds from the south that gave some false lift and the fill over the asphalt parking lot did not seem to be a problem. About a quarter mile north of the launch, the flight string passed over a corn field and began to descend. The flight string was caught for a few minutes on some intermediate voltage power lines. The balloon won the battle and lifted the payloads off of the line and barely cleared the next grove of trees. All radio contact was lost after the power line encounter. The flight string crossed another corn field and cleared a second set of power lines before stopping in the top of a tall tree. Thankfully, the packages were caught and the winds brought the balloon to an early demise by popping it on the tree branches.

No APRS data made it to the internet because of the no path and low altitude.

Recovery efforts continue. The initial EZ Hang retrieval efforts were halted in the heat and humidity when the second lead weight broke free from the monofilament line.

Additional details are on the website: www.depauw.edu/acad/physics/base

Thanks for your support and interest.
Howard

7613. Last call for credit card orders...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-16 01:48:01 UTC
From: Zack Clobes
Topic: 7613 Message: 7613

We will be shutting down the online order form TOMORROW (Friday) NIGHT. PLEASE PLEASE PLEASE have all of your gas and symposium admissions placed by then.

www.custom-ds.com/gpsl2010/

After tomorrow, symposium admissions will only be available at the door for $20. Correct change (meaning bills, not pennies) is appreciated.

BTW, I have seen a few of you requesting additional time slots. That shouldn't be a problem, and will try to get those posted sometime Friday or Saturday.

*** 7 DAYS!!! ***

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7614. Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-16 02:20:36 UTC
From: ccccrnr@aim.com
Topic: 7609 Message: 7614

RoboMo has only 1 balloon, it will be our first "off the ground" launch hopefully

the latex balloon arrived today

are there digi-peaters & i-gates on 144.34? we meant to request a slot on 144.39 to get into more i-gates

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Marty Griffin <mgriffin@...>
To: GPSL <GPSL@yahoogroups.com>
Cc: 'Hanks, Nick' <ndhanks@...>
Sent: Wed, Jul 14, 2010 8:20 pm
Subject: RE: [GPSL] Time Slots

Hi Zack,
Great job on the organization. Could we ask that a page bemade available with the full names of the groups, acronyms, names of one of theprincipals and their home location and any other data that would be fun. Just one more thing, eh? You probably have it already.
Thanks again
- Marty, EOSS

From: Zack Clobes[mailto:zclobes@...]
Sent: Wednesday, July 14, 2010 6:24 PM
To: Group GPSL
Subject: [GPSL] Time Slots

OK, the long awaited slots list... There were a couple of you thatrequested specific slots already, but I had to adjust them slightly in order tofit everyone in. If this can't be done, please let me know ASAP and I'lltry to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to the.39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter onfrequency, not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS,ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler,Nearsys). If you're not on

this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch.org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7615. Re: [GPSL] Last call for credit card orders...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-16 13:39:03 UTC
From: L. Paul Verhage
Topic: 7613 Message: 7615

Zack, I've changed my order to the smaller helium tank. How do I cancel my previous order?

Thanks,
Paul

On Thu, Jul 15, 2010 at 8:48 PM, Zack Clobes <zclobes@...> wrote:

>
>
> We will be shutting down the online order form TOMORROW (Friday) NIGHT.
> PLEASE PLEASE PLEASE have all of your gas and symposium admissions placed by
> then.
>
> www.custom-ds.com/gpsl2010/
>
>
> After tomorrow, symposium admissions will only be available at the door for
> $20. Correct change (meaning bills, not pennies) is appreciated.
>
>
>
> BTW, I have seen a few of you requesting additional time slots. That
> shouldn't be a problem, and will try to get those posted sometime Friday or
> Saturday.
>
>
> *** 7 DAYS!!! ***
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

--
Onwards and Upwards,
Paul

7616. Final call for GPSL Pre-payments!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 00:52:53 UTC
From: Zack Clobes
Topic: 7616 Message: 7616

I'm going to be shutting down the online payments this evening so that I can get everything reconciled before the event.

I have the following people paid. The ???'s belong to the order with the name immediately above the ???'s. If anyone can help fill these in, I'd appreciate it.

Howard Brooks KC9QBN
Ron Malinowski, Jr. N9QGS
Mark Tolley
Ruizhe "Richard" Ma
Ian Eyberg
Paul Verhage KD4STH
Marty Griffin WA0GEH
Sharon Griffin
Harry Mueller KC5TRB
Chase Mueller
Mark Huffman N5OTD
Carol Huffman
Keith Kaiser WA0TJT
Deb Kaiser W0DLK
Bobette Doerrie
???
Glenn Gram
???
Michael Willett
???
Mike Morgan N0MPM
Mike Manes W5VSI
Doug Gentges N0IX
Nick Hanks N0LP
Stephen Meer K0SCC
Parker Meer
Daryl Hartner
John F Dinneen
John Sohl KE4ROS
Sheri Trbovich WB1SAR
Ian Sohl
Murielle Parkinson
Rick Von Glahn N0KKZ
Bill Brown WB8ELK
???
Lawrence Noble
Donna Boyd
???

For Gas Orders, I have:
Traveler: 1 K
BASE: 2 T
Nearsys: 1 K
ORB: 1 K
Near Space Ventures: 1 H2
Bobette Doerrie: 1 K
Glenn Gram: 1 K, 1 T
Michael Willet: 1 K
EOSS: 1 T
WB8ELK: 1 T

7617. Just a reminder to all of the presenters out there...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 01:17:35 UTC
From: Zack Clobes
Topic: 7617 Message: 7617

I need the .PPT files or other media by Monday so that I can do testing on the streaming.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7618. Re: [GPSL] Just a reminder to all of the presenters out there...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 01:23:24 UTC
From: Joe
Topic: 7617 Message: 7618
Attachments: 1 described; binary payloads are missing from this source WARC

Zack what system are you planning on using?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/16/2010 8:17 PM, Zack Clobes wrote:
>
>
> I need the .PPT files or other media by Monday so that I can do
> testing on the streaming.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>

7619. Does anyone have any microphones that they could bring to GPSL for broadcasting the event?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 01:26:17 UTC
From: Zack Clobes
Topic: 7619 Message: 7619

We definitely have some interest in streaming the symposium out to those who can't be here, and I know how painful it can be to listen to lousy audio all day.

I think I can come up with a small mixing board to accept the XLR connectors (and provide phantom if needed), but I'm having a hard time coming up with a couple of cordless lapels and even maybe some condenser mic's for general room mic'ing.

Can anyone assist?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7620. Re: [GPSL] Just a reminder to all of the presenters out there...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 01:34:33 UTC
From: Zack Clobes
Topic: 7617 Message: 7620
Attachments: 1 described; binary payloads are missing from this source WARC

Good question.

I'm strongly leaning towards WebEx, because I know it's a professional, high quality (paid) service. I like this because we can stream the video, audio, and screen sharing all down the same pipe, and don't have to worry about having both the presenter and the projector screen in view. But, it means that we'll be heavily dependent on a single computer, and I can only stream 25 attendees.

I've also heard some good things about UStream, which I'm looking into right now. I know Bill is a fan of Batc.tv.

All I know is that if I'm going to put myself through all of this, the last thing I want is a crappy stream. :-)

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Fri, Jul 16, 2010 at 8:23 PM, Joe <nss@...> wrote:

> Zack what system are you planning on using?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/16/2010 8:17 PM, Zack Clobes wrote:
>
> I need the .PPT files or other media by Monday so that I can do testing on
> the streaming.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>

7621. Re: [GPSL] Final call for GPSL Pre-payments!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 01:55:04 UTC
From: Michael Willett
Topic: 7616 Message: 7621

Hi Zack,

Attending from ARBONET is Michael Willett with Louise Rau (my spouse)
K5NOT and K5RAU respectively.

Thanks!

--Michael

On 7/16/2010 7:52 PM, Zack Clobes wrote:
>
> I'm going to be shutting down the online payments this evening so that
> I can get everything reconciled before the event.
>
>
> I have the following people paid. The ???'s belong to the order with
> the name immediately above the ???'s. If anyone can help fill these
> in, I'd appreciate it.
> Howard Brooks KC9QBN
> Ron Malinowski, Jr. N9QGS
> Mark Tolley
> Ruizhe "Richard" Ma
> Ian Eyberg
> Paul Verhage KD4STH
> Marty Griffin WA0GEH
> Sharon Griffin
> Harry Mueller KC5TRB
> Chase Mueller
> Mark Huffman N5OTD
> Carol Huffman
> Keith Kaiser WA0TJT
> Deb Kaiser W0DLK
> Bobette Doerrie
> ???
> Glenn Gram
> ???
> Michael Willett
> ???
> Mike Morgan N0MPM
> Mike Manes W5VSI
> Doug Gentges N0IX
> Nick Hanks N0LP
> Stephen Meer K0SCC
> Parker Meer
> Daryl Hartner
> John F Dinneen

> John Sohl KE4ROS
> Sheri Trbovich WB1SAR
> Ian Sohl
> Murielle Parkinson
> Rick Von Glahn N0KKZ
> Bill Brown WB8ELK
> ???
> Lawrence Noble
> Donna Boyd
> ???
>
>
>
> For Gas Orders, I have:
> Traveler: 1 K
> BASE: 2 T
> Nearsys: 1 K
> ORB: 1 K
> Near Space Ventures: 1 H2
> Bobette Doerrie: 1 K
> Glenn Gram: 1 K, 1 T
> Michael Willet: 1 K
> EOSS: 1 T
> WB8ELK: 1 T
>
>
>
>

7622. Re: [GPSL] Just a reminder to all of the presenters out there...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 02:07:35 UTC
From: Joe
Topic: 7617 Message: 7622
Attachments: 2 described; binary payloads are missing from this source WARC

I do not know what it costs (if anything) but the webinars I have been
in with this group below is awesome!

There is the live video capability along with power point capability, a
text based chat room, AND the ability of viewers to on text or even
Voice ask questions.

it's super cool.

their archives is at,

http://www.casadelcrappo.com/pvrc-videos/

here they made a video of their past webinars.

Whats all involved in setting it up i do not know, but i bet they could
help you.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/16/2010 8:34 PM, Zack Clobes wrote:
>
>
> Good question.
>
> I'm strongly leaning towards WebEx, because I know it's a
> professional, high quality (paid) service. I like this because we can
> stream the video, audio, and screen sharing all down the same pipe,
> and don't have to worry about having both the presenter and the
> projector screen in view. But, it means that we'll be heavily
> dependent on a single computer, and I can only stream 25 attendees.
>
>
> I've also heard some good things about UStream, which I'm looking into
> right now. I know Bill is a fan of Batc.tv.
>
>
> All I know is that if I'm going to put myself through all of this, the
> last thing I want is a crappy stream. :-)
>
> Zack Clobes, W0ZC

> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>
> On Fri, Jul 16, 2010 at 8:23 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> Zack what system are you planning on using?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/16/2010 8:17 PM, Zack Clobes wrote:
>> I need the .PPT files or other media by Monday so that I can do
>> testing on the streaming.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org <http://www.projecttraveler.org>
>>
>
>
>
>

7623. Re: [GPSL] Does anyone have any microphones that they could bring to GPSL for broadcasting the event?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 02:57:57 UTC
From: Meer, Stephen
Topic: 7623 Message: 7623

I can bring 2 wireless lav mic systems and 1 handheld wireless mic for audience pickup. These are all close in mics not room pick-ups.

Rcvrs are wall wart powered so wide spaced power strip or AC pigtails will be required.

Do you have XLR interconnect cables or do I need to bring some?

/s/SM2 K0SCC

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: Group GPSL
Sent: Fri Jul 16 19:26:17 2010
Subject: [GPSL] Does anyone have any microphones that they could bring to GPSL for broadcasting the event?

We definitely have some interest in streaming the symposium out to those who can't be here, and I know how painful it can be to listen to lousy audio all day.

I think I can come up with a small mixing board to accept the XLR connectors (and provide phantom if needed), but I'm having a hard time coming up with a couple of cordless lapels and even maybe some condenser mic's for general room mic'ing.

Can anyone assist?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org<http://www.projecttraveler.org>

7624. Re: [GPSL] Final call for GPSL Pre-payments!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 03:45:49 UTC
From: ccccrnr@aim.com
Topic: 7616 Message: 7624

There will be 4 or 5 of us coming from St Louis for ROBOMO to pay at the door Friday morning

but you should have already got our order for 1 He T tank from Mike Moody KD0MEQ ??

Carlton
-.- .. ....- -. .... -.-

-----Original Message-----
From: Michael Willett <mw@...>
To: GPSL <GPSL@yahoogroups.com>
Cc: Zack Clobes <zclobes@...>
Sent: Fri, Jul 16, 2010 4:55 pm
Subject: Re: [GPSL] Final call for GPSL Pre-payments!!!

Hi Zack,

Attending from ARBONET is Michael Willett with Louise Rau (my spouse) K5NOT and K5RAU respectively.

Thanks!

--Michael

On 7/16/2010 7:52 PM, Zack Clobes wrote:

I'm going to be shutting down the online payments this evening sothat I can get everything reconciled before the event.

I have the following people paid. The ???'s belong to the order withthe name immediately above the ???'s. If anyone can help fill thesein, I'd appreciate it.
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Ron Malinowski, Jr. N9QGS
Mark Tolley
Ruizhe "Richard" Ma
Ian Eyberg
Paul Verhage KD4STH
Marty Griffin WA0GEH
Sharon Griffin
Harry Mueller KC5TRB
Chase Mueller
Mark Huffman N5OTD
Carol Huffman
Keith Kaiser WA0TJT
Deb Kaiser W0DLK
Bobette Doerrie
???

Glenn Gram
???
Michael Willett
???
Mike Morgan N0MPM
Mike Manes W5VSI
Doug Gentges N0IX
Nick Hanks N0LP
Stephen Meer K0SCC
Parker Meer
Daryl Hartner
John F Dinneen
John Sohl KE4ROS
Sheri Trbovich WB1SAR
Ian Sohl
Murielle Parkinson
Rick Von Glahn N0KKZ
Bill Brown WB8ELK
???
Lawrence Noble
Donna Boyd
???

For Gas Orders, I have:
Traveler: 1 K
BASE: 2 T
Nearsys: 1 K
ORB: 1 K
Near Space Ventures: 1 H2
Bobette Doerrie: 1 K
Glenn Gram: 1 K, 1 T
Michael Willet: 1 K
EOSS: 1 T
WB8ELK: 1 T

7625. RE: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 04:01:33 UTC
From: Nick Hanks
Topic: 7609 Message: 7625

Zack,

Hope this isn☐t too whinny. Could Nearsys☐s slot be moved to :38 to :43?
We☐d like to beacon at both :00 to :05 and :30 to :35. The KPC we fly is
already programmed for two beacons per minute.

Thank for your consideration.

Nick

NØLP

EOSS GPSL Coordinator

PS Will have a .pdf file out to you by Monday.

N.

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack
Clobes
Sent: Wednesday, July 14, 2010 18:24
To: Group GPSL
Subject: [GPSL] Time Slots

OK, the long awaited slots list... There were a couple of you that
requested specific slots already, but I had to adjust them slightly in order
to fit everyone in. If this can't be done, please let me know ASAP and I'll
try to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to
the .39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter on frequency,
not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS,
ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler,
Nearsys). If you're not on this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch.
<http://www.superlaunch.org> org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler <http://www.projecttraveler.org> .org

7626. Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 19:12:19 UTC
From: L. Paul Verhage
Topic: 7609 Message: 7626

I'll program the new time slot.

Paul

On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Zack,
>
>
>
> Hope this isn’t too whinny. Could Nearsys’s slot be moved to :38 to :43?
> We’d like to beacon at both :00 to :05 and :30 to :35. The KPC we fly is
> already programmed for two beacons per minute.
>
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>
> Thank for your consideration.
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> Nick
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> NØLP
>
> EOSS GPSL Coordinator
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>
> PS Will have a .pdf file out to you by Monday.
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> N.
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> ------------------------------

>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Zack
> Clobes
> *Sent:* Wednesday, July 14, 2010 18:24
> *To:* Group GPSL
> *Subject:* [GPSL] Time Slots
>
>
>
>
>
> OK, the long awaited slots list... There were a couple of you that
> requested specific slots already, but I had to adjust them slightly in order
> to fit everyone in. If this can't be done, please let me know ASAP and I'll
> try to find a work-around.
>
> The following slots are for 144.34 only - I don't intend to assign slots to
> the .39 frequency unless we have overwhelming response otherwise.
>
> EOSS - :00 to :05 seconds.
> ROBOMO - :06 to :11 seconds
> WB8ELK - :12 to :17 seconds
> ORB - :18 to :23 and :48 to :53
> Traveler - :24 to :29. I will also have a second transmitter on frequency,
> not slotted but only transmitting about every 90 seconds.
> Nearsys - :30 to :35
>
>
> I have a total of 13 flights (Near Space Ventures, Dryden Engineering,
> EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2),
> Traveler, Nearsys). If you're not on this list, then I'm not expecting
> you...
>
> A more detailed list will be uploaded to the www.superlaunch.org website
> soon.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
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>

--
Onwards and Upwards,
Paul

7627. RE: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 19:40:32 UTC
From: Nick Hanks
Topic: 7609 Message: 7627

Thanks, Paul.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Saturday, July 17, 2010 13:12
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Time Slots

I'll program the new time slot.

Paul

On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks <ndhanks@msn.
<mailto:ndhanks@...> com> wrote:

Zack,

Hope this isn□t too whinny. Could Nearsys□s slot be moved to :38 to :43? We□d like to beacon at both :00 to :05 and :30 to :35. The KPC we fly is already programmed for two beacons per minute.

Thank for your consideration.

Nick

NØLP

EOSS GPSL Coordinator

PS Will have a .pdf file out to you by Monday.

N.

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of Zack Clobes
Sent: Wednesday, July 14, 2010 18:24
To: Group GPSL
Subject: [GPSL] Time Slots

OK, the long awaited slots list... There were a couple of you that requested specific slots already, but I had to adjust them slightly in order to fit everyone in. If this can't be done, please let me know ASAP and I'll

try to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to the .39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter on frequency, not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler, Nearsys). If you're not on this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch. <http://www.superlaunch.org/> org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler <http://www.projecttraveler.org/> .org

--
Onwards and Upwards,
Paul

7628. NO5X SK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 22:10:41 UTC
From: HarryM
Topic: 7628 Message: 7628

Sadly we have lost a comrade in ballooning & experimentation.

John Robbins NO5X (AD5GT) in Oklahoma City is now SK.

John & I spent many, many late nights on echolink and the phone developing several 2m CW beacons several years ago, a precursor to my 12mw CW beacon. John also came to Tulsa to help on recovery for several ORB flights. I went to OKC and spent several nights helping John build payloads and equipment for the DART balloon program and then to help on DART recoveries.

He will be missed!

GOD SPEED JOHN

7629. Re: Just a reminder to all of the presenters out there...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 22:33:55 UTC
From: ronald74
Topic: 7617 Message: 7629

I have used Ustream and have used it several times, and I have the capability to broadcast single camera with tripod and boom mic, but I could feed a mixer or such I dont have but can accept a 3.5mm audio plug) into a jack in the side of the macbook and get the audio that way which would provide excellent quality. It just takes having a decent internet connection. If we can settle on a method Im sure we can get some press out by emailing to about 100 radio clubs across the country, and it may be to late for news-line... but maybe something on QRZ and eham. Im sure we would get a good viewership. Of can always put it to hard drive and publish it afterwards. Both methods are in general relatively free.

Ron N9QGS

7630. Re: Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 22:41:00 UTC
From: ronald74
Topic: 7609 Message: 7630

One of the BASE APRS beacons will be on 144.39 at 22 seconds after the minute... The other tracker will I believe will be about 50 seconds on 144.39 according to Howard.

Also there will be a Domino EX-22 on 146.560, and I will be igatefrom the recovery vehicle with an evdo card piping 144.39 into Aprs.fi and to nearspace.us on 146.56 Domino tracker (n9qgs-)

Things are shaping up. Ron N9QGS

7631. Re: [GPSL] Final call for GPSL Pre-payments!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 23:07:47 UTC
From: ccccrnr@aim.com
Topic: 7616 Message: 7631

Does anyone have a Hydrogen regulator that could help ROBOMO use to fill our balloon? so we could get Hydrogen. Some how our gas order didn't get up it, so I was going to just order Hydrogen, if there will be someone else there with a regulator

Thanks,
Carlton corbitt

-----Original Message-----
From: Michael Willett <mw@...>
To: GPSL <GPSL@yahoogroups.com>
Cc: Zack Clobes <zclobes@...>
Sent: Fri, Jul 16, 2010 4:55 pm
Subject: Re: [GPSL] Final call for GPSL Pre-payments!!!

Hi Zack,

Attending from ARBONET is Michael Willett with Louise Rau (my spouse) K5NOT and K5RAU respectively.

Thanks!

--Michael

On 7/16/2010 7:52 PM, Zack Clobes wrote:

I'm going to be shutting down the online payments this evening sothat I can get everything reconciled before the event.

I have the following people paid. The ???'s belong to the order withthe name immediately above the ???'s. If anyone can help fill thesein, I'd appreciate it.
Howard Brooks KC9QBN
Ron Malinowski, Jr. N9QGS
Mark Tolley
Ruizhe "Richard" Ma
Ian Eyberg
Paul Verhage KD4STH
Marty Griffin WA0GEH
Sharon Griffin
Harry Mueller KC5TRB
Chase Mueller
Mark Huffman N5OTD
Carol Huffman
Keith Kaiser WA0TJT
Deb Kaiser W0DLK
Bobette Doerrie
???
Glenn Gram

???
Michael Willett
???
Mike Morgan N0MPM
Mike Manes W5VSI
Doug Gentges N0IX
Nick Hanks N0LP
Stephen Meer K0SCC
Parker Meer
Daryl Hartner
John F Dinneen
John Sohl KE4ROS
Sheri Trbovich WB1SAR
Ian Sohl
Murielle Parkinson
Rick Von Glahn N0KKZ
Bill Brown WB8ELK
???
Lawrence Noble
Donna Boyd
???

For Gas Orders, I have:
Traveler: 1 K
BASE: 2 T
Nearsys: 1 K
ORB: 1 K
Near Space Ventures: 1 H2
Bobette Doerrie: 1 K
Glenn Gram: 1 K, 1 T
Michael Willet: 1 K
EOSS: 1 T
WB8ELK: 1 T

7632. APRS Settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-17 23:51:36 UTC
From: Michael Willett
Topic: 7609 Message: 7632

What would be a proper APRS setting for the Hutchinson area for a 300mw transmitter? No path or Wide2-1?

--Michael

K5NOT

7633. Re: [GPSL] Final call for GPSL Pre-payments!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-18 00:06:50 UTC
From: Zack Clobes
Topic: 7616 Message: 7633

Hydrogen is available at GPSL for those groups with prior experience. I just don't want any undesirable publicity.

I don't have any access to a regulator though personally.

Zack

On Jul 17, 2010 6:07 PM, <ccccrnr@...> wrote:

Does anyone have a Hydrogen regulator that could help ROBOMO use to fill our balloon?
so we could get Hydrogen. Some how our gas order didn't get up it, so I was going to just order Hydrogen, if there will be someone else there with a regulator

Thanks,
Carlton corbitt

-----Original Message-----
From: Michael Willett <mw@...>
To: GPSL <GPSL@yahoogroups.com>
...

7634. Re: [GPSL] NO5X SK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-18 22:32:46 UTC
From: Mike Manes
Topic: 7628 Message: 7634

Condolences, Harry,
This growing old is a bitch, but it seems to be better than the alternative.
Wish I'd had a chance to meet that OT.
73 de Mike W5VSI

On 7/17/2010 16:10, HarryM wrote:
>
>
> Sadly we have lost a comrade in ballooning & experimentation.
> John Robbins NO5X (AD5GT) in Oklahoma City is now SK.
> John & I spent many, many late nights on echolink and the phone developing
> several 2m CW beacons several years ago, a precursor to my 12mw CW beacon.
> John also came to Tulsa to help on recovery for several ORB flights. I went to
> OKC and spent several nights helping John build payloads and equipment for the
> DART balloon program and then to help on DART recoveries.
> He will be missed!
> GOD SPEED JOHN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7635. GPSL Presentations

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 03:07:09 UTC
From: Zack Clobes
Topic: 691 Message: 7635

Thanks to those who have tried to send me your presentations. You'd think by 2010 we'd have a good way to seamlessly share large files......

I think I have an option for you. Please go to http://www.custom-ds.com/filetransfers.php. It will prompt you for a username and password - use 'gpsl' and '2010' respectively, WITHOUT quotes.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7636. Are you staying at the Holiday Inn Express for the meeting?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 15:51:09 UTC
From: BASE
Topic: 7636 Message: 7636

Dear friends,

I will be contacting the Holiday Inn Express folks about the possibility of using their conference room for the post-flight debriefing on Saturday. I am seeking use of the room at no cost, since I paying for two rooms for three nights already. I believe that my argument could be strengthened by knowing how many other GPSLers are staying there.

Responses to the list are fine, or you can e-mail me directly.

Thanks,
Howard (hlbrooks@...)

7637. Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 18:08:17 UTC
From: L. Paul Verhage
Topic: 7637 Message: 7637

Is anyone planning to visit the Cosmosphere on Thursday?

--
Onwards and Upwards,
Paul

7638. Tickets for door prize drawing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 18:17:36 UTC
From: Zack Clobes
Topic: 7638 Message: 7638

I can't quite recall last year, but did/does someone have a roll of the tear-off tickets to use for the door prize drawings? I bought a roll, but if someone else has some sitting around their house rotting away, I'd like to return mine and get my $15 back.. :-)

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7639. Re: [GPSL] Tickets for door prize drawing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 19:18:27 UTC
From: Keith Kaiser
Topic: 7638 Message: 7639

I have a roll of them Zack. Take yours back, I'll bring mine.

On Jul 19, 2010, at 1:17 PM, Zack Clobes wrote:

> I can't quite recall last year, but did/does someone have a roll of the tear-off tickets to use for the door prize drawings? I bought a roll, but if someone else has some sitting around their house rotting away, I'd like to return mine and get my $15 back.. :-)
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>

7640. Re: [GPSL] Tickets for door prize drawing

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-19 19:35:16 UTC
From: Zack Clobes
Topic: 7638 Message: 7640

Sounds good. Thanks.

On Mon, Jul 19, 2010 at 2:18 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I have a roll of them Zack. Take yours back, I'll bring mine.
>
> On Jul 19, 2010, at 1:17 PM, Zack Clobes wrote:
>
>
>
> I can't quite recall last year, but did/does someone have a roll of the
> tear-off tickets to use for the door prize drawings? I bought a roll, but
> if someone else has some sitting around their house rotting away, I'd like
> to return mine and get my $15 back.. :-)
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

7641. Re: [GPSL] Are you staying at the Holiday Inn Express for the meeting?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 00:53:18 UTC
From: Mark Garrett
Topic: 7636 Message: 7641

Howard:

Bill Brown, WB8ELK will be staying at the Express. If things work out I should be a late addition there as well.

Mark Garrett, KA9SZX

From: BASE <basedepauw@...>
To: Great Plains Superlaunch <gpsl@yahoogroups.com>
Sent: Mon, July 19, 2010 10:51:09 AM
Subject: [GPSL] Are you staying at the Holiday Inn Express for the meeting?

Dear friends,

I will be contacting the Holiday Inn Express folks about the possibility of using their conference room for the post-flight debriefing on Saturday. I am seeking use of the room at no cost, since I paying for two rooms for three nights already. I believe that my argument could be strengthened by knowing how many other GPSLers are staying there.

Responses to the list are fine, or you can e-mail me directly.

Thanks,
Howard (hlbrooks@...)

7642. RE: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 01:33:52 UTC
From: Nick Hanks
Topic: 7637 Message: 7642

Yes, the EOSS group will be there after lunch on Thursday.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, July 19, 2010 12:08
To: gpsl@yahoogroups.com
Subject: [GPSL] Cosmosphere?

Is anyone planning to visit the Cosmosphere on Thursday?

--
Onwards and Upwards,
Paul

7643. EOSS Travel Plans

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 01:49:01 UTC
From: Nick Hanks
Topic: 7643 Message: 7643

EOSS will depart Limon*, CO Wednesday morning at 0800 (0900 CDT) for Hutch via I-70. There will be six vehicles all running APRS with a -6 SSID. We expect to be in the Hutchinson area a little before 1700 CDT. We'll give a call on the 147.12 MHz repeater as we approach Hutch. Enroute simplex frequency is 146.55 MHz. We leave I-70 at Lyons, KS and drive down Rt. 14 through Nickerson and on into Hutch.

We'll have mobile Web access so we'll be I-gating ourselves and will put out tweets too. You can learn all about Twitter and how to join at http://www.eoss.org/twitter.htm. We'll be sending out tweets on our way out and back, while we're in Hutch, and on Saturday during the launch and recovery activities. Our Webmaster N0KKZ has put together an excellent tutorial on getting started. And you can only subscribe to EOSS tweets if you want.

In addition, four of the vehicles have HF capability and will be monitoring 7.234 MHz and 14.275 MHz at :30 past the hour unless we're on a gas stop or the lunch break. Give us a call!

Nick N0LP

EOSS GPSL Coordinator

* Limon's about 70 miles east of Denver. It's where we all converge to start the trip together.

7644. Road Construction

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 01:54:53 UTC
From: HarryM
Topic: 7644 Message: 7644

For those staying near the Grand Prairie and going to Kens Thursday eve. I was wondering if Lorraine is open from 17th north to 30th? Google maps and Google earth show it to be under construction.

73 Harry

7645. Re: [GPSL] Road Construction

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 02:07:35 UTC
From: Zack Clobes
Topic: 7644 Message: 7645

Lorraine is totally open, and has been. That's kind of strange.

I can't think of any major construction in the area that should affect any
of you - most of it's just residential re-surfacing, but not in the eastern
part of town.

Zack

On Mon, Jul 19, 2010 at 8:54 PM, HarryM <hhm_74115@...> wrote:

>
>
> For those staying near the Grand Prairie and going to Kens Thursday
> eve. I was wondering if Lorraine is open from 17th north to 30th?
> Google maps and Google earth show it to be under construction.
>
> 73 Harry
>
>
>

7646. Cosmosphere Museum Access

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 02:15:30 UTC
From: Zack Clobes
Topic: 7646 Message: 7646

The access to the "Hall of Space" should be free to all of the GPSL attendees either Thursday or Friday (and I'd image that Saturday would work too). Friday will probably be pretty tough for most of us, since they close at 7pm.

Just tell the front desk that you're with the balloon group - if they give any flack over it, Janet Fischer (in charge of facility rentals) is probably a good name to drop.

Given the forecast short flights, you'll probably have some time to kill on Saturday afternoon. The underground salt museum would be a good place to visit.

http://www.undergroundmuseum.org/index.php

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7647. Re: [GPSL] Road Construction

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 02:26:59 UTC
From: HarryM
Topic: 7644 Message: 7647

Thanks Zack and for the Cosmosphere and salt info too!

73 Harry

Lorraine is totally open, and has been. That's kind of strange.

7648. Re: [GPSL] Cosmosphere Museum Access

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 02:27:38 UTC
From: Michael Willett
Topic: 7646 Message: 7648

Obviously you don't know to what extent some of us can take a short flight and make that day a long week! :)

--Michael K5NOT (AKA, The 4 hour flight, 3 hour drive and a week plus to retrieve our payload group! :)

> Given the forecast short flights, you'll probably have some time to
> kill on Saturday afternoon. The underground salt museum would be a
> good place to visit.
>

7649. Re: [GPSL] Road Construction/Highway collapse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 02:58:13 UTC
From: BASE
Topic: 7644 Message: 7649

Although it won't affect many of us, there was a partial road collapse in the Kansas City, Missouri area. You can't go from I-470 west to I-435 west. Here's the link:
http://www.kansascity.com/2010/07/18/2091494/triangle-interchange-may-not-open.html#ixzz0u3koWcfp
Fortunately, I-435 is open and an easy way to get from I-70 to I-35 without going through downtown KC. Probably only matters for me, the NSV folks, and ROBOMO.
We're hoping to make it to Hutchinson in time for dinner at Ken's on Thursday.
See you then,Howard

--- On Mon, 7/19/10, HarryM <hhm_74115@...> wrote:

From: HarryM <hhm_74115@...>
Subject: [GPSL] Road Construction
To: GPSL@yahoogroups.com
Date: Monday, July 19, 2010, 9:54 PM

For those staying near the Grand Prairie and going to Kens
Thursday
eve. I was wondering if Lorraine is open from 17th north to
30th?
Google maps and Google earth show it to be under construction.

73 Harry

7650. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 14:16:28 UTC
From: L. Paul Verhage
Topic: 7637 Message: 7650

Perhaps we can all meet for lunch before heading to the Cosmosphere?

Paul

On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Yes, the EOSS group will be there after lunch on Thursday.
>
>
>
>
>
> Nick
>
>
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Monday, July 19, 2010 12:08
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Cosmosphere?
>
>
>
>
>
> Is anyone planning to visit the Cosmosphere on Thursday?
>
> --
> Onwards and Upwards,
> Paul
>
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>

--
Onwards and Upwards,
Paul

7651. Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 14:43:06 UTC
From: L. Paul Verhage
Topic: 7651 Message: 7651

Someone said they could help me launch and chase. Please let me know who you are.

I'm looking for help with the filling, chase, etc. It will just be myself.

Thanks

--
Onwards and Upwards,
Paul

7652. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 16:42:45 UTC
From: Zack Clobes
Topic: 7651 Message: 7652

There are several people from the local ham club that will be attending the launch. Most of them have never chased, but could probably be coached through the process along the way.

Zack

On Tue, Jul 20, 2010 at 9:43 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Someone said they could help me launch and chase. Please let me know who
> you are.
>
> I'm looking for help with the filling, chase, etc. It will just be myself.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>

7653. Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 16:59:37 UTC
From: Zack Clobes
Topic: 7609 Message: 7653

Sorry guys, I just caught this.

Paul needs to move his slot to 24-29 seconds. The 36-41 had already been assigned to ARBONET. EOSS can have 0-5 and 30-35. Traveler is going to QSY to 144.39, because I just don't have time to mess with slotting right now.

I will work with Keith to get the newest scheduled uploaded to superlaunch.org ASAP.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Zack,
>
>
>
> Hope this isn’t too whinny. Could Nearsys’s slot be moved to :38 to :43?
> We’d like to beacon at both :00 to :05 and :30 to :35. The KPC we fly is
> already programmed for two beacons per minute.
>
>
>
> Thank for your consideration.
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>
> Nick
>
> NØLP
>
> EOSS GPSL Coordinator
>
>
>
>
>
> PS Will have a .pdf file out to you by Monday.
>
>

> N.
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> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Zack
> Clobes
> *Sent:* Wednesday, July 14, 2010 18:24
> *To:* Group GPSL
> *Subject:* [GPSL] Time Slots
>
>
>
>
>
> OK, the long awaited slots list... There were a couple of you that
> requested specific slots already, but I had to adjust them slightly in order
> to fit everyone in. If this can't be done, please let me know ASAP and I'll
> try to find a work-around.
>
> The following slots are for 144.34 only - I don't intend to assign slots to
> the .39 frequency unless we have overwhelming response otherwise.
>
> EOSS - :00 to :05 seconds.
> ROBOMO - :06 to :11 seconds
> WB8ELK - :12 to :17 seconds
> ORB - :18 to :23 and :48 to :53
> Traveler - :24 to :29. I will also have a second transmitter on frequency,
> not slotted but only transmitting about every 90 seconds.
> Nearsys - :30 to :35
>
>
> I have a total of 13 flights (Near Space Ventures, Dryden Engineering,
> EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2),
> Traveler, Nearsys). If you're not on this list, then I'm not expecting
> you...
>
> A more detailed list will be uploaded to the www.superlaunch.org website
> soon.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>

7654. Track All Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 17:09:42 UTC
From: HarryM
Topic: 7654 Message: 7654

FYI - on the GPSL web site the "Follow all the balloons here. (aprs.fi) " link is set for Topeka not Hutch.

73 Harry

7655. Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 17:16:15 UTC
From: Michael Willett
Topic: 7609 Message: 7655

ARBONET will be QSY on 144.390 as well. The Open Trackers just are not working for me today.

If someone needs our time slot on 340, it is open.

Do we have time slots for the 390, since several of us will be there as well?

--Michael
K5NOT

On 7/20/2010 11:59 AM, Zack Clobes wrote:
>
> Sorry guys, I just caught this.
>
> *Paul needs to move his slot to 24-29 seconds.* The 36-41 had already
> been assigned to ARBONET. EOSS can have 0-5 and 30-35. Traveler is
> going to QSY to 144.39, because I just don't have time to mess with
> slotting right now.
>
> I will work with Keith to get the newest scheduled uploaded to
> superlaunch.org <http://superlaunch.org> ASAP.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks <ndhanks@...
> <mailto:ndhanks@...>> wrote:
>
> Zack,
>
> Hope this isn?t too whinny. Could Nearsys?s slot be moved to :38
> to :43? We?d like to beacon at both :00 to :05 and :30 to :35.
> The KPC we fly is already programmed for two beacons per minute.
>
> Thank for your consideration.
>
> Nick
>
> N?LP
>
> EOSS GPSL Coordinator
>
> PS Will have a .pdf file out to you by Monday.

>
> N.
>
> * From: * GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On
> Behalf Of *Zack Clobes
> *Sent:* Wednesday, July 14, 2010 18:24
> *To:* Group GPSL
> *Subject:* [GPSL] Time Slots
>
> OK, the long awaited slots list... There were a couple of you
> that requested specific slots already, but I had to adjust them
> slightly in order to fit everyone in. If this can't be done,
> please let me know ASAP and I'll try to find a work-around.
>
> The following slots are for 144.34 only - I don't intend to assign
> slots to the .39 frequency unless we have overwhelming response
> otherwise.
>
> EOSS - :00 to :05 seconds.
> ROBOMO - :06 to :11 seconds
> WB8ELK - :12 to :17 seconds
> ORB - :18 to :23 and :48 to :53
> Traveler - :24 to :29. I will also have a second transmitter on
> frequency, not slotted but only transmitting about every 90 seconds.
> Nearsys - :30 to :35
>
>
> I have a total of 13 flights (Near Space Ventures, Dryden
> Engineering, EOSS, ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB,
> BASE - Depauw (2), Traveler, Nearsys). If you're not on this
> list, then I'm not expecting you...
>
> A more detailed list will be uploaded to the www.superlaunch.org
> <http://www.superlaunch.org> website soon.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
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7656. Re: Re: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 17:26:12 UTC
From: zclobes@gmail.com
Topic: 7609 Message: 7656

I am not coordinating slots on .39. My recommendation would be to use a
simple delay of 35 seconds between packets to keep the slot rotating.

Zack

On Jul 20, 2010 12:16pm, Michael Willett <mw@omsrc.com> wrote:

> ARBONET will be QSY on 144.390 as well. The Open Trackers just are not
> working for me today.

> If someone needs our time slot on 340, it is open.

> Do we have time slots for the 390, since several of us will be there as
> well?

> --Michael

> K5NOT

> On 7/20/2010 11:59 AM, Zack Clobes wrote:

> Sorry guys, I just caught this.

> Paul needs to move his slot to 24-29 seconds. The 36-41 had
> already been assigned to ARBONET. EOSS can have 0-5 and 30-35.
> Traveler is going to QSY to 144.39, because I just don't have time to
> mess with slotting right now.

> I will work with Keith to get the newest scheduled uploaded to
> superlaunch.org
> ASAP.

> Zack Clobes, W0ZC

> Project: Traveler

> www.projecttraveler.org

> On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks ndhanks@msn.com>
> wrote:

> Zack,

> Hope this isn't too whinny. Could
> Nearsys's slot be moved to :38 to :43? We'd like to beacon at both
> :00 to :05 and :30 to :35. The KPC we fly is already programmed for
> two
> beacons per minute.

> Thank for your consideration.

> Nick

> NØLP

> EOSS GPSL Coordinator

> PS Will have a .pdf file out to you by
> Monday.

> N.

> From:
> GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com]
> On Behalf Of Zack Clobes

> Sent: Wednesday, July 14, 2010
> 18:24

> To: Group GPSL

> Subject: [GPSL] Time Slots

> OK, the long awaited slots list... There were a
> couple of you that requested specific slots already, but I had to
> adjust them
> slightly in order to fit everyone in. If this can't be done, please
> let
> me know ASAP and I'll try to find a work-around.

> The following slots are for 144.34 only - I don't intend to assign
> slots to the
> .39 frequency unless we have overwhelming response otherwise.

> EOSS - :00 to :05 seconds.

> ROBOMO - :06 to :11 seconds

> WB8ELK - :12 to :17 seconds

> ORB - :18 to :23 and :48 to :53

> Traveler - :24 to :29. I will also have a second transmitter on
> frequency, not slotted but only transmitting about every 90 seconds.

> Nearsys - :30 to :35

> I have a total of 13 flights (Near Space Ventures, Dryden Engineering,
> EOSS,
> ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2),
> Traveler,
> Nearsys). If you're not on this list, then I'm not expecting you...

> A more detailed list will be uploaded to the www.superlaunch.org website
> soon.

> Zack Clobes, W0ZC

> Project: Traveler

> www.projecttraveler.org

>

7657. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:14:27 UTC
From: L. Paul Verhage
Topic: 7651 Message: 7657

Thanks Michael and Zack. I appreciate the help. Mike, it you can fill near me or me near you, we'll get two outta there.

I have a very simple tracking system, and will need backup for that.

Paul

On Tue, Jul 20, 2010 at 11:42 AM, Zack Clobes <zclobes@...> wrote:

>
>
> There are several people from the local ham club that will be attending the
> launch. Most of them have never chased, but could probably be coached
> through the process along the way.
>
> Zack
>
>
> On Tue, Jul 20, 2010 at 9:43 AM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> Someone said they could help me launch and chase. Please let me know who
>> you are.
>>
>> I'm looking for help with the filling, chase, etc. It will just be
>> myself.
>>
>> Thanks
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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Onwards and Upwards,
Paul

7658. Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:24:26 UTC
From: L. Paul Verhage
Topic: 7658 Message: 7658

My capsule is buttoned up and ready for flight. Is it possible to swap my :24 slot? If not, I'll open it up and reprogram (unfortunately, I can't program the TT3 from the outside - perhaps I should look at that design change).

--
Onwards and Upwards,
Paul

7659. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:27:39 UTC
From: zclobes@gmail.com
Topic: 7658 Message: 7659

Paul, what time slot do you have programmed?

Zack

On Jul 20, 2010 1:24pm, "L. Paul Verhage" <nearsys@gmail.com> wrote:

> My capsule is buttoned up and ready for flight. Is it possible to swap
> my :24 slot? If not, I'll open it up and reprogram (unfortunately, I
> can't program the TT3 from the outside - perhaps I should look at that
> design change).

> --
> Onwards and Upwards,
> Paul

>

7660. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:31:37 UTC
From: L. Paul Verhage
Topic: 7658 Message: 7660

I programmed :34 at EOSS's request yesterday.

Paul

On Tue, Jul 20, 2010 at 1:27 PM, <zclobes@...> wrote:

>
>
> Paul, what time slot do you have programmed?
>
> Zack
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>
> On Jul 20, 2010 1:24pm, "L. Paul Verhage" <nearsys@...> wrote:
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> > My capsule is buttoned up and ready for flight. Is it possible to swap
> my :24 slot? If not, I'll open it up and reprogram (unfortunately, I can't
> program the TT3 from the outside - perhaps I should look at that design
> change).
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> > Onwards and Upwards,
> > Paul
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Onwards and Upwards,
Paul

7661. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:38:54 UTC
From: Michael Willett
Topic: 7651 Message: 7661

Sounds like a plan. I too have a very simple tracking system.

--Michael

On 7/20/2010 1:14 PM, L. Paul Verhage wrote:
> Thanks Michael and Zack. I appreciate the help. Mike, it you can
> fill near me or me near you, we'll get two outta there.
> I have a very simple tracking system, and will need backup for that.
> Paul
>
> On Tue, Jul 20, 2010 at 11:42 AM, Zack Clobes <zclobes@...
> <mailto:zclobes@...>> wrote:
>
>
>
> There are several people from the local ham club that will be
> attending the launch. Most of them have never chased, but could
> probably be coached through the process along the way.
>
> Zack
>
>
> On Tue, Jul 20, 2010 at 9:43 AM, L. Paul Verhage
> <nearsys@... <mailto:nearsys@...>> wrote:
>
> Someone said they could help me launch and chase. Please let
> me know who you are.
> I'm looking for help with the filling, chase, etc. It will
> just be myself.
> Thanks
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> --
> Onwards and Upwards,
> Paul
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> --
> Onwards and Upwards,
> Paul
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7662. Re: Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 18:43:32 UTC
From: zclobes@gmail.com
Topic: 7658 Message: 7662

Sorry, I'm afraid it would be best if you re-programmed it. At :34, you're
right in between EOSS and ARBONET's slots, and liable to conflict with both.

Zack

On Jul 20, 2010 1:31pm, "L. Paul Verhage" <nearsys@gmail.com> wrote:

> I programmed :34 at EOSS's request yesterday.

> Paul

> On Tue, Jul 20, 2010 at 1:27 PM, zclobes@gmail.com> wrote:

> Paul, what time slot do you have programmed?

> Zack

> On Jul 20, 2010 1:24pm, "L. Paul Verhage" nearsys@gmail.com> wrote:
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> > My capsule is buttoned up and ready for flight. Is it possible to swap
> my :24 slot? If not, I'll open it up and reprogram (unfortunately, I
> can't program the TT3 from the outside - perhaps I should look at that
> design change).

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> > Onwards and Upwards,
> > Paul
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> --
> Onwards and Upwards,
> Paul

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7663. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 19:19:09 UTC
From: Michael Willett
Topic: 7658 Message: 7663

ARBONET will not have a radio on 340, we will be on 390. My slot is free to Paul if he needs it.

I could not get the Open Tracker to work for me this trip, so I will be using a Tiny Track on 390, so therefore no time slot required.

--Michael

On 7/20/2010 1:43 PM, zclobes@... wrote:
>
> Sorry, I'm afraid it would be best if you re-programmed it. At :34,
> you're right in between EOSS and ARBONET's slots, and liable to
> conflict with both.
>
> Zack
>
> On Jul 20, 2010 1:31pm, "L. Paul Verhage" <nearsys@...> wrote:
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> > I programmed :34 at EOSS's request yesterday.
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> > Paul
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> > On Tue, Jul 20, 2010 at 1:27 PM, zclobes@...> wrote:
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> > Paul, what time slot do you have programmed?
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> > Zack
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> > On Jul 20, 2010 1:24pm, "L. Paul Verhage" nearsys@...> wrote:
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> > > My capsule is buttoned up and ready for flight. Is it possible to
> swap my :24 slot? If not, I'll open it up and reprogram
> (unfortunately, I can't program the TT3 from the outside - perhaps I
> should look at that design change).
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> > > Onwards and Upwards,
> > > Paul
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7664. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 19:31:48 UTC
From: L. Paul Verhage
Topic: 7658 Message: 7664

I'm on 390 also.

Paul

On Tue, Jul 20, 2010 at 2:19 PM, Michael Willett <mw@...> wrote:

>
>
>
> ARBONET will not have a radio on 340, we will be on 390. My slot is free to
> Paul if he needs it.
>
> I could not get the Open Tracker to work for me this trip, so I will be
> using a Tiny Track on 390, so therefore no time slot required.
>
> --Michael
>
>
>
> On 7/20/2010 1:43 PM, zclobes@... wrote:
>
>
>
> Sorry, I'm afraid it would be best if you re-programmed it. At :34, you're
> right in between EOSS and ARBONET's slots, and liable to conflict with both.
>
> Zack
>
> On Jul 20, 2010 1:31pm, "L. Paul Verhage" <nearsys@...> wrote:
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> > I programmed :34 at EOSS's request yesterday.
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> > Paul

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> > On Tue, Jul 20, 2010 at 1:27 PM, zclobes@...> wrote:
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> >
> > Paul, what time slot do you have programmed?
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> > Zack
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> > On Jul 20, 2010 1:24pm, "L. Paul Verhage" nearsys@...> wrote:
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> > > My capsule is buttoned up and ready for flight. Is it possible to swap
> my :24 slot? If not, I'll open it up and reprogram (unfortunately, I can't
> program the TT3 from the outside - perhaps I should look at that design
> change).
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> > > Onwards and Upwards,
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> > Onwards and Upwards,
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7665. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 19:51:08 UTC
From: Michael Willett
Topic: 7658 Message: 7665

I think Zack is only coordinating 144.340. So you can leave your system
as is Paul. I will program mine for 125 seconds between check-ins and
that should be random enough.

--Michael

On 7/20/2010 2:31 PM, L. Paul Verhage wrote:
> I'm on 390 also.
> Paul
>
> On Tue, Jul 20, 2010 at 2:19 PM, Michael Willett <mw@...
> <mailto:mw@...>> wrote:
>
>
>
>
> ARBONET will not have a radio on 340, we will be on 390. My slot
> is free to Paul if he needs it.
>
> I could not get the Open Tracker to work for me this trip, so I
> will be using a Tiny Track on 390, so therefore no time slot required.
>
> --Michael
>
>
>
> On 7/20/2010 1:43 PM, zclobes@... <mailto:zclobes@...>
> wrote:
>>
>> Sorry, I'm afraid it would be best if you re-programmed it. At
>> :34, you're right in between EOSS and ARBONET's slots, and liable
>> to conflict with both.
>>
>> Zack
>>
>> On Jul 20, 2010 1:31pm, "L. Paul Verhage" <nearsys@...
>> <mailto:nearsys@...>> wrote:
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>> > I programmed :34 at EOSS's request yesterday.
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>> > Paul
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>> > On Tue, Jul 20, 2010 at 1:27 PM, zclobes@...
>> <mailto:zclobes@...>> wrote:
>> >
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>> >
>> > Paul, what time slot do you have programmed?
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>> > Zack
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>> > On Jul 20, 2010 1:24pm, "L. Paul Verhage" nearsys@...
>> <mailto:nearsys@...>> wrote:
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>> > > > My capsule is buttoned up and ready for flight. Is it
>> possible to swap my :24 slot? If not, I'll open it up and
>> reprogram (unfortunately, I can't program the TT3 from the
>> outside - perhaps I should look at that design change).
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>> > > Onwards and Upwards,
>> > > Paul

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> Onwards and Upwards,
> Paul
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7666. Re: [GPSL] Time Slot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 19:51:52 UTC
From: Mike Manes
Topic: 7658 Message: 7666

EOSS just beacons a GGA frame at 0:30, so there should be no risk of
collision with Paul at 0:34.
73 de Mike W5VSI
CTO EOSS

On 7/20/2010 13:19, Michael Willett wrote:
>
>
>
> ARBONET will not have a radio on 340, we will be on 390. My slot is free to
> Paul if he needs it.
>
> I could not get the Open Tracker to work for me this trip, so I will be using
> a Tiny Track on 390, so therefore no time slot required.
>
> --Michael
>
>
> On 7/20/2010 1:43 PM, zclobes@... wrote:
>>
>> Sorry, I'm afraid it would be best if you re-programmed it. At :34, you're
>> right in between EOSS and ARBONET's slots, and liable to conflict with both.
>>
>> Zack
>>
>> On Jul 20, 2010 1:31pm, "L. Paul Verhage" <nearsys@...> wrote:
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>> > I programmed :34 at EOSS's request yesterday.
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>> > Paul
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>> > On Tue, Jul 20, 2010 at 1:27 PM, zclobes@...> wrote:
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>> > Paul, what time slot do you have programmed?
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>> > Zack
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>> > On Jul 20, 2010 1:24pm, "L. Paul Verhage" nearsys@...> wrote:
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>> > > My capsule is buttoned up and ready for flight. Is it possible to swap
>> my :24 slot? If not, I'll open it up and reprogram (unfortunately, I can't
>> program the TT3 from the outside - perhaps I should look at that design change).
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>> > > Onwards and Upwards,
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7667. APRS on 144.390

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 20:04:04 UTC
From: Michael Willett
Topic: 7658 Message: 7667

It sounds like several of us will be working with balloons with
non-agile radios on 144.390

For flights on 144.390 we have:

EOSS @ 0.30
Near Sys @ 0.34
ARBONET every 125 seconds

Are there other flights planning to be on 390?

--Michael K5NOT

7668. Re: [GPSL] APRS on 144.390

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 20:15:02 UTC
From: zclobes@gmail.com
Topic: 7658 Message: 7668

I will be on .39, but not slotted.

Zack

On Jul 20, 2010 3:04pm, Michael Willett <mw@...> wrote:

> It sounds like several of us will be working with balloons with

> non-agile radios on 144.390

> For flights on 144.390 we have:

> EOSS @ 0.30

> Near Sys @ 0.34

> ARBONET every 125 seconds

> Are there other flights planning to be on 390?

> --Michael K5NOT

> ------------------------------------

> Yahoo! Groups Links

> To visit your group on the web, go to:

> http://groups.yahoo.com/group/GPSL/

> Your email settings:

> Individual Email | Traditional

> To change settings online go to:

> http://groups.yahoo.com/group/GPSL/join

> (Yahoo! ID required)

> To change settings via email:

> GPSL-digest@yahoogroups.com

> GPSL-fullfeatured@yahoogroups.com

> To unsubscribe from this group, send an email to:

> GPSL-unsubscribe@yahoogroups.com

> Your use of Yahoo! Groups is subject to:

> http://docs.yahoo.com/info/terms/

7669. Re: [GPSL] APRS on 144.390

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 20:40:05 UTC
From: Mike Manes
Topic: 7658 Message: 7669

Correction: EOSS will be on 144.340 with slots at 0:00 and 0:30.
73 de Mike W5VSI
CTO EOSS

On 7/20/2010 14:04, Michael Willett wrote:
>
> It sounds like several of us will be working with balloons with
> non-agile radios on 144.390
>
> For flights on 144.390 we have:
>
> EOSS @ 0.30
> Near Sys @ 0.34
> ARBONET every 125 seconds
>
> Are there other flights planning to be on 390?
>
> --Michael K5NOT
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7670. Corrected APRS on 144.390

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 20:50:49 UTC
From: Michael Willett
Topic: 7658 Message: 7670

> It sounds like several of us will be working with balloons with
> non-agile radios on 144.390
>
> For flights on 144.390 we have:
>
> Zack - not slotted
> Near Sys @ 0.34
> ARBONET every 125 seconds
>

7671. RE: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:39:05 UTC
From: Nick Hanks
Topic: 7637 Message: 7671

Hi Paul,

We'll be at the salt mine in the morning. Could we give you a call when we're ready to leave there for lunch? Any recommendations for places on the south side of Hutch?

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 20, 2010 08:16
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Cosmosphere?

Perhaps we can all meet for lunch before heading to the Cosmosphere?

Paul

On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@msn.
<mailto:ndhanks@...> com> wrote:

Yes, the EOSS group will be there after lunch on Thursday.

Nick

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of L. Paul Verhage
Sent: Monday, July 19, 2010 12:08
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Subject: [GPSL] Cosmosphere?

Is anyone planning to visit the Cosmosphere on Thursday?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

7672. RE: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:44:17 UTC
From: Nick Hanks
Topic: 7651 Message: 7672

Paul,

We can help I'm sure. Will talk with you Friday. Can also assist with your chase after we get EOSS-154 located.

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 20, 2010 08:43
To: gpsl@yahoogroups.com
Subject: [GPSL] Chase Crews for NearSys

Someone said they could help me launch and chase. Please let me know who you are.

I'm looking for help with the filling, chase, etc. It will just be myself.

Thanks

--
Onwards and Upwards,
Paul

7673. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:46:56 UTC
From: L. Paul Verhage
Topic: 7637 Message: 7673

That sounds fine. Call me at 785 230-6866.

I don't know about Hutch, but there is something across the street from the C-Sphere as I recall.

Zack?

On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Hi Paul,
>
>
>
> We'll be at the salt mine in the morning. Could we give you a call when
> we're ready to leave there for lunch? Any recommendations for places on the
> south side of Hutch?
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> Nick
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Tuesday, July 20, 2010 08:16
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Cosmosphere?
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>
> Perhaps we can all meet for lunch before heading to the Cosmosphere?
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>
> Paul
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> On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@...> wrote:
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> Yes, the EOSS group will be there after lunch on Thursday.
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> Is anyone planning to visit the Cosmosphere on Thursday?
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> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

7674. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:47:18 UTC
From: L. Paul Verhage
Topic: 7651 Message: 7674

Thanks,
Paul

On Tue, Jul 20, 2010 at 4:44 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Paul,
>
>
>
> We can help I’m sure. Will talk with you Friday. Can also assist with
> your chase after we get EOSS-154 located.
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> Nick
>
> EOSS GPSL Coordinator
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>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Tuesday, July 20, 2010 08:43
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Chase Crews for NearSys
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> Someone said they could help me launch and chase. Please let me know who
> you are.
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>
> I'm looking for help with the filling, chase, etc. It will just be myself.
>
>

>
> Thanks
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> --
> Onwards and Upwards,
> Paul
>
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>

--
Onwards and Upwards,
Paul

7675. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:48:30 UTC
From: L. Paul Verhage
Topic: 7651 Message: 7675

It sounds like I have enough help to launch. Tracking equipment I'm not sure about. Zack, what are you bringing?

I've got a D-7 and GPS 5. It works, but is limited.

Paul

On Tue, Jul 20, 2010 at 4:44 PM, Nick Hanks <ndhanks@...> wrote:

>
>
> Paul,
>
>
>
> We can help I’m sure. Will talk with you Friday. Can also assist with
> your chase after we get EOSS-154 located.
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> EOSS GPSL Coordinator
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
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> *Sent:* Tuesday, July 20, 2010 08:43
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> you are.
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> I'm looking for help with the filling, chase, etc. It will just be myself.
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> Thanks
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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

7676. RE: [GPSL] Time Slots

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:46:41 UTC
From: Nick Hanks
Topic: 7609 Message: 7676

Thanks, Zack.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Tuesday, July 20, 2010 11:00
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Time Slots

Sorry guys, I just caught this.

Paul needs to move his slot to 24-29 seconds. The 36-41 had already been assigned to ARBONET. EOSS can have 0-5 and 30-35. Traveler is going to QSY to 144.39, because I just don't have time to mess with slotting right now.

I will work with Keith to get the newest scheduled uploaded to superlaunch. <http://superlaunch.org> org ASAP.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler <http://www.projecttraveler.org> .org

On Fri, Jul 16, 2010 at 11:01 PM, Nick Hanks <ndhanks@msn. <mailto:ndhanks@...> com> wrote:

Zack,

Hope this isn□t too whinny. Could Nearsys□s slot be moved to :38 to :43? We□d like to beacon at both :00 to :05 and :30 to :35. The KPC we fly is already programmed for two beacons per minute.

Thank for your consideration.

Nick

NØLP

EOSS GPSL Coordinator

PS Will have a .pdf file out to you by Monday.

N.

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
[mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of
Zack Clobes
Sent: Wednesday, July 14, 2010 18:24
To: Group GPSL
Subject: [GPSL] Time Slots

OK, the long awaited slots list... There were a couple of you that
requested specific slots already, but I had to adjust them slightly in order
to fit everyone in. If this can't be done, please let me know ASAP and I'll
try to find a work-around.

The following slots are for 144.34 only - I don't intend to assign slots to
the .39 frequency unless we have overwhelming response otherwise.

EOSS - :00 to :05 seconds.
ROBOMO - :06 to :11 seconds
WB8ELK - :12 to :17 seconds
ORB - :18 to :23 and :48 to :53
Traveler - :24 to :29. I will also have a second transmitter on frequency,
not slotted but only transmitting about every 90 seconds.
Nearsys - :30 to :35

I have a total of 13 flights (Near Space Ventures, Dryden Engineering, EOSS,
ROBOMO (2), ARBONET, WB8ELK, Nick Stich, ORB, BASE - Depauw (2), Traveler,
Nearsys). If you're not on this list, then I'm not expecting you...

A more detailed list will be uploaded to the www.superlaunch.
<http://www.superlaunch.org> org website soon.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler <http://www.projecttraveler.org> .org

7677. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:59:09 UTC
From: Zack Clobes
Topic: 7637 Message: 7677

For food, there's nothing really close to the Cosmosphere, other than the internal snack bar place. I think they have burgers and pizza, although it's probably not what I would call... fresh.

If EOSS is coming from the salt mine, heading for the Cosmosphere, I would probably recommend:

Airport Steakhouse - I think they only do buffet for lunch, although I'm not positive. It's at the airport. Or on east 11th by the mall, there is Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.

One other place that you might consider since it's liable to be HOT Thursday is Bogies on Plum, just north of 17th. That's the burget joint that we ate at a few years ago at GPSL when we were at the Juco. They're slow, but they have good ice cream shakes.

Zack

On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@...m> wrote:

>
>
> That sounds fine. Call me at 785 230-6866.
>
> I don't know about Hutch, but there is something across the street from the
> C-Sphere as I recall.
>
> Zack?
>
> On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@...> wrote:
>
>>
>>
>> Hi Paul,
>>
>>
>>
>> We’ll be at the salt mine in the morning. Could we give you a call when
>> we’re ready to leave there for lunch? Any recommendations for places on the
>> south side of Hutch?
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>> Nick

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>> ------------------------------
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>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *L. Paul Verhage
>> *Sent:* Tuesday, July 20, 2010 08:16
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] Cosmosphere?
>>
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>>
>> Perhaps we can all meet for lunch before heading to the Cosmosphere?
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>> Paul
>>
>> On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@...> wrote:
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>>
>> Yes, the EOSS group will be there after lunch on Thursday.
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>> Nick
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>> ------------------------------
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>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *L. Paul Verhage
>> *Sent:* Monday, July 19, 2010 12:08
>> *To:* gpsl@yahoogroups.com
>> *Subject:* [GPSL] Cosmosphere?
>>
>>
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>>
>> Is anyone planning to visit the Cosmosphere on Thursday?

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>> --
>> Onwards and Upwards,
>> Paul
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>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
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>

7678. RE: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 21:56:02 UTC
From: Nick Hanks
Topic: 7637 Message: 7678

Okay.

My cell is 303-564-9557.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 20, 2010 15:47
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Cosmosphere?

That sounds fine. Call me at 785 230-6866.

I don't know about Hutch, but there is something across the street from the C-Sphere as I recall.

Zack?

On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@msn. <mailto:ndhanks@...> com> wrote:

Hi Paul,

We'll be at the salt mine in the morning. Could we give you a call when we're ready to leave there for lunch? Any recommendations for places on the south side of Hutch?

Nick

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of L. Paul Verhage
Sent: Tuesday, July 20, 2010 08:16
To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
Subject: Re: [GPSL] Cosmosphere?

Perhaps we can all meet for lunch before heading to the Cosmosphere?

Paul

On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@msn. <mailto:ndhanks@...> com> wrote:

Yes, the EOSS group will be there after lunch on Thursday.

Nick

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
[mailto:GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com] On Behalf Of L.
Paul Verhage
Sent: Monday, July 19, 2010 12:08
To: gpsl@yahoogroups. <mailto:gpsl@yahoogroups.com> com
Subject: [GPSL] Cosmosphere?

Is anyone planning to visit the Cosmosphere on Thursday?

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

7679. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:03:00 UTC
From: L. Paul Verhage
Topic: 7637 Message: 7679

Ummm, there were businesses across the street. I guess not food places
though.

Bogies sounds good.

Paul

On Tue, Jul 20, 2010 at 4:59 PM, Zack Clobes <zclobes@...> wrote:

>
>
> For food, there's nothing really close to the Cosmosphere, other than the
> internal snack bar place. I think they have burgers and pizza, although
> it's probably not what I would call... fresh.
>
> If EOSS is coming from the salt mine, heading for the Cosmosphere, I would
> probably recommend:
>
> Airport Steakhouse - I think they only do buffet for lunch, although I'm
> not positive. It's at the airport. Or on east 11th by the mall, there is
> Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.
>
> One other place that you might consider since it's liable to be HOT
> Thursday is Bogies on Plum, just north of 17th. That's the burget joint
> that we ate at a few years ago at GPSL when we were at the Juco. They're
> slow, but they have good ice cream shakes.
>
> Zack
>
> On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@...>wrote:
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>> That sounds fine. Call me at 785 230-6866.
>>
>> I don't know about Hutch, but there is something across the street from
>> the C-Sphere as I recall.
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>> Zack?
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>> On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@...> wrote:
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>>> Hi Paul,
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>>>
>>>
>>> We’ll be at the salt mine in the morning. Could we give you a call when
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>>> Perhaps we can all meet for lunch before heading to the Cosmosphere?
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>>> Yes, the EOSS group will be there after lunch on Thursday.
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>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>> *L. Paul Verhage
>>> *Sent:* Monday, July 19, 2010 12:08
>>> *To:* gpsl@yahoogroups.com
>>> *Subject:* [GPSL] Cosmosphere?
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>>> Is anyone planning to visit the Cosmosphere on Thursday?
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>>> Onwards and Upwards,
>>> Paul
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>>> Onwards and Upwards,
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

7680. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:07:23 UTC
From: Zack Clobes
Topic: 7637 Message: 7680

Bogies is good, I just avoid the place when I'm in a hurry, have deadlines, or am otherwise agitated.. ;-)

Give me a call, and I'll probably meet you guys down there. Paul were you coming by immediately after lunch, or was that after the Cosmosphere?

620-960-6898

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Jul 20, 2010 at 5:03 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Ummm, there were businesses across the street. I guess not food places
> though.
>
> Bogies sounds good.
>
> Paul
>
> On Tue, Jul 20, 2010 at 4:59 PM, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> For food, there's nothing really close to the Cosmosphere, other than the
>> internal snack bar place. I think they have burgers and pizza, although
>> it's probably not what I would call... fresh.
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>> If EOSS is coming from the salt mine, heading for the Cosmosphere, I would
>> probably recommend:
>>
>> Airport Steakhouse - I think they only do buffet for lunch, although I'm
>> not positive. It's at the airport. Or on east 11th by the mall, there is
>> Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.
>>
>> One other place that you might consider since it's liable to be HOT
>> Thursday is Bogies on Plum, just north of 17th. That's the burget joint
>> that we ate at a few years ago at GPSL when we were at the Juco. They're
>> slow, but they have good ice cream shakes.
>>
>> Zack
>>
>> On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@...>wrote:

>>
>>>
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>>> That sounds fine. Call me at 785 230-6866.
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>>> I don't know about Hutch, but there is something across the street from
>>> the C-Sphere as I recall.
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7681. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:10:57 UTC
From: Zack Clobes
Topic: 7651 Message: 7681

I will have my mobile in the Jeep.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Jul 20, 2010 at 4:48 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> It sounds like I have enough help to launch. Tracking equipment I'm not
> sure about. Zack, what are you bringing?
>
> I've got a D-7 and GPS 5. It works, but is limited.
>
> Paul
>
> On Tue, Jul 20, 2010 at 4:44 PM, Nick Hanks <ndhanks@...> wrote:
>
>>
>>
>> Paul,
>>
>>
>>
>> We can help I’m sure. Will talk with you Friday. Can also assist with
>> your chase after we get EOSS-154 located.
>>
>>
>>
>>
>>
>> Nick
>>
>> EOSS GPSL Coordinator
>>
>>
>>
>>
>> ------------------------------
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *L. Paul Verhage
>> *Sent:* Tuesday, July 20, 2010 08:43
>> *To:* gpsl@yahoogroups.com
>> *Subject:* [GPSL] Chase Crews for NearSys

>>
>>
>>
>>
>>
>> Someone said they could help me launch and chase. Please let me know who
>> you are.
>>
>>
>>
>> I'm looking for help with the filling, chase, etc. It will just be
>> myself.
>>
>>
>>
>> Thanks
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
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>
>
> --
> Onwards and Upwards,
> Paul
>
>

7682. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:12:30 UTC
From: L. Paul Verhage
Topic: 7637 Message: 7682

I'll plan to get in before lunch. It's a 3-1/2 drive to Hutch as I recall.
Where will we meet?

Paul

On Tue, Jul 20, 2010 at 5:07 PM, Zack Clobes <zclobes@...> wrote:

>
>
> Bogies is good, I just avoid the place when I'm in a hurry, have deadlines,
> or am otherwise agitated.. ;-)
>
> Give me a call, and I'll probably meet you guys down there. Paul were you
> coming by immediately after lunch, or was that after the Cosmosphere?
>
> 620-960-6898
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> On Tue, Jul 20, 2010 at 5:03 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> Ummm, there were businesses across the street. I guess not food places
>> though.
>>
>> Bogies sounds good.
>>
>> Paul
>>
>> On Tue, Jul 20, 2010 at 4:59 PM, Zack Clobes <zclobes@...> wrote:
>>
>>>
>>>
>>> For food, there's nothing really close to the Cosmosphere, other than the
>>> internal snack bar place. I think they have burgers and pizza, although
>>> it's probably not what I would call... fresh.
>>>
>>> If EOSS is coming from the salt mine, heading for the Cosmosphere, I
>>> would probably recommend:
>>>
>>> Airport Steakhouse - I think they only do buffet for lunch, although I'm
>>> not positive. It's at the airport. Or on east 11th by the mall, there is

>>> Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.
>>>
>>> One other place that you might consider since it's liable to be HOT
>>> Thursday is Bogies on Plum, just north of 17th. That's the burget joint
>>> that we ate at a few years ago at GPSL when we were at the Juco. They're
>>> slow, but they have good ice cream shakes.
>>>
>>> Zack
>>>
>>> On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@gmail.com>wrote:
>>>
>>>>
>>>>
>>>> That sounds fine. Call me at 785 230-6866.
>>>>
>>>> I don't know about Hutch, but there is something across the street from
>>>> the C-Sphere as I recall.
>>>>
>>>> Zack?
>>>>
>>>> On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@...> wrote:
>>>>
>>>>>
>>>>>
>>>>> Hi Paul,
>>>>>
>>>>>
>>>>>
>>>>> We'll be at the salt mine in the morning. Could we give you a call
>>>>> when we're ready to leave there for lunch? Any recommendations for places
>>>>> on the south side of Hutch?
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> Nick
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> ------------------------------
>>>>>
>>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>>> Of *L. Paul Verhage
>>>>> *Sent:* Tuesday, July 20, 2010 08:16
>>>>> *To:* GPSL@yahoogroups.com
>>>>> *Subject:* Re: [GPSL] Cosmosphere?
>>>>>
>>>>>

>>>>>
>>>>>
>>>>>
>>>>> Perhaps we can all meet for lunch before heading to the Cosmosphere?
>>>>>
>>>>>
>>>>>
>>>>> Paul
>>>>>
>>>>> On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@...> wrote:
>>>>>
>>>>>
>>>>>
>>>>> Yes, the EOSS group will be there after lunch on Thursday.
>>>>>
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>>>>>
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>>>>>
>>>>> Nick
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> ------------------------------
>>>>>
>>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>>> Of *L. Paul Verhage
>>>>> *Sent:* Monday, July 19, 2010 12:08
>>>>> *To:* gpsl@yahoogroups.com
>>>>> *Subject:* [GPSL] Cosmosphere?
>>>>>
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>>>>> Is anyone planning to visit the Cosmosphere on Thursday?
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>>>>> --
>>>>> Onwards and Upwards,
>>>>> Paul
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>>>>> Onwards and Upwards,
>>>>> Paul

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>>>> Onwards and Upwards,
>>>> Paul
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

7683. Re: [GPSL] Chase Crews for NearSys

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:26:26 UTC
From: L. Paul Verhage
Topic: 7651 Message: 7683

Great. It sounds like my launch, chase, and recovery is covered.

Thanks everyone,
Paul

On Tue, Jul 20, 2010 at 5:10 PM, Zack Clobes <zclobes@gmail.com> wrote:

>
>
> I will have my mobile in the Jeep.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> On Tue, Jul 20, 2010 at 4:48 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> It sounds like I have enough help to launch. Tracking equipment I'm not
>> sure about. Zack, what are you bringing?
>>
>> I've got a D-7 and GPS 5. It works, but is limited.
>>
>> Paul
>>
>> On Tue, Jul 20, 2010 at 4:44 PM, Nick Hanks <ndhanks@...> wrote:
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>>> Paul,
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>>> We can help I’m sure. Will talk with you Friday. Can also assist with
>>> your chase after we get EOSS-154 located.
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>>> Nick
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>>> EOSS GPSL Coordinator
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>>> ------------------------------
>>>
>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>>> *L. Paul Verhage
>>> *Sent:* Tuesday, July 20, 2010 08:43
>>> *To:* gpsl@yahoogroups.com
>>> *Subject:* [GPSL] Chase Crews for NearSys
>>>
>>>
>>>
>>>
>>>
>>> Someone said they could help me launch and chase. Please let me know who
>>> you are.
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>>> I'm looking for help with the filling, chase, etc. It will just be
>>> myself.
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>>> Thanks
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>>> --
>>> Onwards and Upwards,
>>> Paul
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>> --
>> Onwards and Upwards,
>> Paul
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--
Onwards and Upwards,
Paul

7684. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-20 22:33:24 UTC
From: Zack Clobes
Topic: 7637 Message: 7684

That's about right from Topeka. I like to come down the turnpike, either through Newton or McPherson.

Zack

On Tue, Jul 20, 2010 at 5:12 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I'll plan to get in before lunch. It's a 3-1/2 drive to Hutch as I
> recall. Where will we meet?
>
> Paul
>
> On Tue, Jul 20, 2010 at 5:07 PM, Zack Clobes <zclobes@...> wrote:
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>>
>> Bogies is good, I just avoid the place when I'm in a hurry, have
>> deadlines, or am otherwise agitated.. ;-)
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>> Give me a call, and I'll probably meet you guys down there. Paul were you
>> coming by immediately after lunch, or was that after the Cosmosphere?
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>> 620-960-6898
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
>>
>>
>> On Tue, Jul 20, 2010 at 5:03 PM, L. Paul Verhage <nearsys@...>wrote:
>>
>>>
>>>
>>> Ummm, there were businesses across the street. I guess not food places
>>> though.
>>>
>>> Bogies sounds good.
>>>
>>> Paul
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>>> On Tue, Jul 20, 2010 at 4:59 PM, Zack Clobes <zclobes@...>wrote:
>>>
>>>>

>>>>
>>>> For food, there's nothing really close to the Cosmosphere, other than
>>>> the internal snack bar place. I think they have burgers and pizza, although
>>>> it's probably not what I would call... fresh.
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>>>> If EOSS is coming from the salt mine, heading for the Cosmosphere, I
>>>> would probably recommend:
>>>>
>>>> Airport Steakhouse - I think they only do buffet for lunch, although I'm
>>>> not positive. It's at the airport. Or on east 11th by the mall, there is
>>>> Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.
>>>>
>>>> One other place that you might consider since it's liable to be HOT
>>>> Thursday is Bogies on Plum, just north of 17th. That's the burget joint
>>>> that we ate at a few years ago at GPSL when we were at the Juco. They're
>>>> slow, but they have good ice cream shakes.
>>>>
>>>> Zack
>>>>
>>>> On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@...>wrote:
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>>>>>
>>>>> That sounds fine. Call me at 785 230-6866.
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>>>>> Zack?
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>>>>> On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@...> wrote:
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>>>>>> Hi Paul,
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>>>>>> We'll be at the salt mine in the morning. Could we give you a call
>>>>>> when we're ready to leave there for lunch? Any recommendations for places
>>>>>> on the south side of Hutch?
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>>>>>> Nick
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>>>>>>

>>>>>>
>>>>>> ------------------------------
>>>>>>
>>>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>>>> Of *L. Paul Verhage
>>>>>> *Sent:* Tuesday, July 20, 2010 08:16
>>>>>> *To:* GPSL@yahoogroups.com
>>>>>> *Subject:* Re: [GPSL] Cosmosphere?
>>>>>>
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>>>>>>
>>>>>> Perhaps we can all meet for lunch before heading to the Cosmosphere?
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>>>>>> Paul
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>>>>>> On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@...> wrote:
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>>>>>> Nick
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>>>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>>>> Of *L. Paul Verhage
>>>>>> *Sent:* Monday, July 19, 2010 12:08
>>>>>> *To:* gpsl@yahoogroups.com
>>>>>> *Subject:* [GPSL] Cosmosphere?
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>>>>>>
>>>>>> Is anyone planning to visit the Cosmosphere on Thursday?
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>>>>>> Onwards and Upwards,

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> --
> Onwards and Upwards,
> Paul
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>

7685. Time Slots on 390

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 01:13:08 UTC
From: BASE
Topic: 7685 Message: 7685

BASE will also be on 390. We're having N9QGS-11 at +22 sec and W9YJ-11 on +52 sec. We can adjust any or all if needed after arrival.

Howard

7686. Re: [GPSL] Cosmosphere?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 01:54:10 UTC
From: kd0cfe@yahoo.com
Topic: 7637 Message: 7686

Senior Tequila on 17th is good if you are wanting some mexican...
Sent from my BlackBerry

-----Original Message-----
From: Zack Clobes <zclobes@gmail.com>
Sender: GPSL@yahoogroups.com
Date: Tue, 20 Jul 2010 16:59:09
To: <GPSL@yahoogroups.com>
Reply-To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Cosmosphere?

For food, there's nothing really close to the Cosmosphere, other than the internal snack bar place. I think they have burgers and pizza, although it's probably not what I would call... fresh.

If EOSS is coming from the salt mine, heading for the Cosmosphere, I would probably recommend:

Airport Steakhouse - I think they only do buffet for lunch, although I'm not positive. It's at the airport. Or on east 11th by the mall, there is Arby's, Lone Star Steakhouse, McDonalds, and Fazoli's.

One other place that you might consider since it's liable to be HOT Thursday is Bogies on Plum, just north of 17th. That's the burget joint that we ate at a few years ago at GPSL when we were at the Juco. They're slow, but they have good ice cream shakes.

Zack

On Tue, Jul 20, 2010 at 4:46 PM, L. Paul Verhage <nearsys@gmail.com> wrote:

>
>
> That sounds fine. Call me at 785 230-6866.
>
> I don't know about Hutch, but there is something across the street from the
> C-Sphere as I recall.
>
> Zack?
>
> On Tue, Jul 20, 2010 at 4:39 PM, Nick Hanks <ndhanks@msn.com> wrote:
>
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>> Hi Paul,
>>
>>

>>
>> We’ll be at the salt mine in the morning. Could we give you a call when
>> we’re ready to leave there for lunch? Any recommendations for places on the
>> south side of Hutch?
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>>
>>
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>>
>> Nick
>>
>>
>>
>>
>> ------------------------------
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>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *L. Paul Verhage
>> *Sent:* Tuesday, July 20, 2010 08:16
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] Cosmosphere?
>>
>>
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>> Perhaps we can all meet for lunch before heading to the Cosmosphere?
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>>
>> Paul
>>
>> On Mon, Jul 19, 2010 at 8:33 PM, Nick Hanks <ndhanks@msn.com> wrote:
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>> Yes, the EOSS group will be there after lunch on Thursday.
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>> Nick
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>> ------------------------------
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of

>> *L. Paul Verhage
>> *Sent:* Monday, July 19, 2010 12:08
>> *To:* gpsl@yahoogroups.com
>> *Subject:* [GPSL] Cosmosphere?
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>> Is anyone planning to visit the Cosmosphere on Thursday?
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>> --
>> Onwards and Upwards,
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>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
>
>

7687. HAB liability insurance?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 05:24:14 UTC
From: k6rpt
Topic: 7687 Message: 7687

Does anyone have a contact for HAB liability insurance?

-Ron K6RPT

7688. Re: [GPSL] HAB liability insurance?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 11:38:17 UTC
From: L. Paul Verhage
Topic: 7687 Message: 7688

I hope that our discussions about a national ARHAB group with the AMA can address that.

Paul

On Wed, Jul 21, 2010 at 12:24 AM, k6rpt <Ron@...> wrote:

> Does anyone have a contact for HAB liability insurance?
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7689. Re: [GPSL] Does anyone have any microphones that they could bring to GPSL for broadcasting the event?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 12:13:23 UTC
From: Roger Hammond
Topic: 7619 Message: 7689

Zack,

Thank you for going 'the extra mile' on this virtual attendance. I'm looking forward to enjoying the fruits of your labor on Friday from the comfort of my basement.

Rog KC0MWM
CNNSP

On Fri, Jul 16, 2010 at 8:26 PM, Zack Clobes <zclobes@...> wrote:

>
>
> We definitely have some interest in streaming the symposium out to those
> who can't be here, and I know how painful it can be to listen to lousy audio
> all day.
>
> I think I can come up with a small mixing board to accept the XLR
> connectors (and provide phantom if needed), but I'm having a hard time
> coming up with a couple of cordless lapels and even maybe some condenser
> mic's for general room mic'ing.
>
>
> Can anyone assist?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

7690. Re: [GPSL] HAB liability insurance?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 13:38:24 UTC
From: Joe
Topic: 7687 Message: 7690
Attachments: 1 described; binary payloads are missing from this source WARC

Nope,

he he he

At least last time I checked no one has found any that anyone other than
Bill gates could afford to pay for.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/21/2010 12:24 AM, k6rpt wrote:
> Does anyone have a contact for HAB liability insurance?
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

7691. Re: [GPSL] HAB liability insurance?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 13:58:33 UTC
From: Ed Moore
Topic: 7687 Message: 7691

We've had lot's of difficulty with this before - we're just not worth the effort for most insurers to deal with. However, when we did some flights on someone else's tab, we used Falcon Insurance in Texas. Pour yourself a drink before asking for a quote, but I promise it won't be as bad as some other places!

Ed
CU Spaceflight

On 21/07/10 14:38, Joe wrote:
> Nope,
>
> he he he
>
> At least last time I checked no one has found any that anyone other than
> Bill gates could afford to pay for.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/21/2010 12:24 AM, k6rpt wrote:
>> Does anyone have a contact for HAB liability insurance?
>>
>> -Ron K6RPT
>>
>>
>>
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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7692. De-briefing Scheduled for Saturday afternoon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 14:22:51 UTC
From: Zack Clobes
Topic: 7692 Message: 7692

Given the close-in proximity of our flights, I've went ahead and scheduled the meeting room at my workplace Saturday from "about after lunch to dinner time". I know that's a bit vague, but it's largely dependent on me finding my payload, and getting back into town.. ;-) So, if I'm stuck in a tree and you want a cool place to hang out.....

The location will be at Hutchinson Credit Union (900 E. 23rd Ave) at the corner of 23rd and Severance. There's an employee door just to the north of the main entrance. Press the doorbell next to that door, and someone will be up to let you in.

The meeting room holds about 50 comfortably, we have chairs, tables, projector, DVD player, etc...

So, watch Twitter for updates on the availability of the room. I will also try to monitor the 147.12+ repeater.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7693. The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 14:31:38 UTC
From: Keith Kaiser
Topic: 7693 Message: 7693

Looks like some guys are volunteering for next year.

http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html

sounds good to me.....

7694. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 14:51:00 UTC
From: Joe
Topic: 7693 Message: 7694
Attachments: 1 described; binary payloads are missing from this source WARC

Cool,

I could even maybe make it to that location,

How about at the Airport? maybe have use of a hanger or two?

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/21/2010 9:31 AM, Keith Kaiser wrote:
> Looks like some guys are volunteering for next year.
>
> http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html
>
>
> sounds good to me.....
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

7695. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 15:59:25 UTC
From: Zack Clobes
Topic: 7693 Message: 7695
Attachments: 1 described; binary payloads are missing from this source WARC

I believe Mark Conner is on the schedule for 2011.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:

> Cool,
>
> I could even maybe make it to that location,
>
> How about at the Airport? maybe have use of a hanger or two?
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
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> http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html
>
>
>
> sounds good to me.....
>
> ------------------------------------
>
> Yahoo! Groups Links
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7696. Hacking the "Spy" cameras for use in balloon payloads.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 16:19:39 UTC
From: Bruce Coates
Topic: 7696 Message: 7696
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Everyone

I had planned on getting this documentation cleaned up before sending it out but it's still on my ever growing to-do list. Rather than wait, I wanted to get it out before GPSL in case people are interested.

Basically, this a way to hack into the "Mini DV" and "Chewing Gum" "spy" cameras you find on eBay. It gives you a way to control them with just 3 wires.
- +5v
- Ground
- 3.3v signal wire

The 5v and ground are simply connected to the USB port on the camera. The 3.3v signal line is connected to the shutter button. When you apply 5v, it charges the battery and powers up portions of the camera. This generates enough heat to keep the camera from freezing when it's not recording video. When you remove the 5v, the camera reverts to a "ready to record" state for 30 seconds. If you do nothing, it will power down after 30 seconds.

The signal line logic is different for the two cameras. For one, pulling the line up to 3.3v simulates pressing the shutter button while you have to ground the line on the other model for the same effect.

When I'm recording I also stop and start the video every 10 minutes. This reduces the likelihood of a corrupted video file due to a dead battery or full SD card. It also breaks it up into 9:55 clips, just right for You Tube. ;-)

So now, the sequence my camera controller goes through is:

- Apply 5v for about 15 seconds.
- Remove 5v. I now know both cameras are ready to record.
- Press the shutter to begin recording. (Briefly apply 3.3v or ground to signal line)
- Every 10 minutes I:
- Press the shutter to stop recording.
- Wait 10 seconds for the cameras to close the files.
- Press the shutter to begin recording.
- At 10,000 feet or maybe higher, I stop recording and set the cameras into recharge/keep warm mode. Things are a bit boring in that range and this extends my battery life.
- At 60,000 feet I begin recording again.
- I usually continue recording in 10 minute chunks all the way to burst and back to the ground.

I hope this sparks some interest and discussion at the conference. I can't attend in person but thanks to the efforts of the organizers I'll be watching from the comfort of my easy chair.

73, Bruce
VE5BNC
SABRE - http://ve5aa.dyndns.org

7697. Re: [GPSL] Hacking the "Spy" cameras for use in balloon payloads. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 16:27:06 UTC
From: Mark Conner
Topic: 7696 Message: 7697

Very concise, yet very helpful writeup. Thanks for posting this to the group!

73 de Mark N9XTN

On Wed, Jul 21, 2010 at 11:19, Bruce Coates <bruce.coates@...>wrote:

> [Attachment(s) <#129f5cef8e0d0771_TopText> from Bruce Coates included
> below]
>
> Hi Everyone
>
> I had planned on getting this documentation cleaned up before sending it
> out but it's still on my ever growing to-do list. Rather than wait, I
> wanted to get it out before GPSL in case people are interested.
>
> Basically, this a way to hack into the "Mini DV" and "Chewing Gum" "spy"
> cameras you find on eBay. It gives you a way to control them with just 3
> wires.
> - +5v
> - Ground
> - 3.3v signal wire
>
> The 5v and ground are simply connected to the USB port on the camera. The
> 3.3v signal line is connected to the shutter button. When you apply 5v, it
> charges the battery and powers up portions of the camera. This generates
> enough heat to keep the camera from freezing when it's not recording video.
> When you remove the 5v, the camera reverts to a "ready to record" state for
> 30 seconds. If you do nothing, it will power down after 30 seconds.
>
> The signal line logic is different for the two cameras. For one, pulling
> the line up to 3.3v simulates pressing the shutter button while you have to
> ground the line on the other model for the same effect.
>
> When I'm recording I also stop and start the video every 10 minutes. This
> reduces the likelihood of a corrupted video file due to a dead battery or
> full SD card. It also breaks it up into 9:55 clips, just right for You
> Tube. ;-)
>
> So now, the sequence my camera controller goes through is:
>
> - Apply 5v for about 15 seconds.
> - Remove 5v. I now know both cameras are ready to record.
> - Press the shutter to begin recording. (Briefly apply 3.3v or ground to

> signal line)
> - Every 10 minutes I:
> - Press the shutter to stop recording.
> - Wait 10 seconds for the cameras to close the files.
> - Press the shutter to begin recording.
> - At 10,000 feet or maybe higher, I stop recording and set the cameras into
> recharge/keep warm mode. Things are a bit boring in that range and this
> extends my battery life.
> - At 60,000 feet I begin recording again.
> - I usually continue recording in 10 minute chunks all the way to burst and
> back to the ground.
>
> I hope this sparks some interest and discussion at the conference. I
> can't attend in person but thanks to the efforts of the organizers I'll be
> watching from the comfort of my easy chair.
>
> 73, Bruce
> VE5BNC
> SABRE - http://ve5aa.dyndns.org
>
>
>
> Attachment(s) from Bruce Coates
>
> 1 of 1 File(s)
> Mini Video.zip<http://xa.yimg.com/kq/groups/6764416/1452526001/name/Mini%20Video%2Ezip>
>
>

7698. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 17:53:09 UTC
From: Roger Hammond
Topic: 7693 Message: 7698
Attachments: 1 described; binary payloads are missing from this source WARC

Which I am looking forward to.

Rog KC0MWM

On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@...> wrote:

>
>
> I believe Mark Conner is on the schedule for 2011.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
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>
> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>
>> Cool,
>>
>> I could even maybe make it to that location,
>>
>> How about at the Airport? maybe have use of a hanger or two?
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
>>
>> Looks like some guys are volunteering for next year.
>> http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html
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>> sounds good to me.....
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7699. Re: [GPSL] Hacking the "Spy" cameras for use in balloon payloads. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 18:31:08 UTC
From: L. Paul Verhage
Topic: 7696 Message: 7699

My new BalloonSat flight computer designs incorporate a 5V trigger for cameras (so you can use the CHDK USB remote). I'll take a look at your notes and will incorporate that into the newer design.

Thanks,
Paul

On Wed, Jul 21, 2010 at 11:19 AM, Bruce Coates <bruce.coates@...>wrote:

> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html#129f5cf017d8326e_TopText>from Bruce Coates included below]
>
> Hi Everyone
>
> I had planned on getting this documentation cleaned up before sending it
> out but it's still on my ever growing to-do list. Rather than wait, I
> wanted to get it out before GPSL in case people are interested.
>
> Basically, this a way to hack into the "Mini DV" and "Chewing Gum" "spy"
> cameras you find on eBay. It gives you a way to control them with just 3
> wires.
> - +5v
> - Ground
> - 3.3v signal wire
>
> The 5v and ground are simply connected to the USB port on the camera. The
> 3.3v signal line is connected to the shutter button. When you apply 5v, it
> charges the battery and powers up portions of the camera. This generates
> enough heat to keep the camera from freezing when it's not recording video.
> When you remove the 5v, the camera reverts to a "ready to record" state for
> 30 seconds. If you do nothing, it will power down after 30 seconds.
>
> The signal line logic is different for the two cameras. For one, pulling
> the line up to 3.3v simulates pressing the shutter button while you have to
> ground the line on the other model for the same effect.
>
> When I'm recording I also stop and start the video every 10 minutes. This
> reduces the likelihood of a corrupted video file due to a dead battery or
> full SD card. It also breaks it up into 9:55 clips, just right for You
> Tube. ;-)
>
> So now, the sequence my camera controller goes through is:
>
> - Apply 5v for about 15 seconds.

> - Remove 5v. I now know both cameras are ready to record.
> - Press the shutter to begin recording. (Briefly apply 3.3v or ground to
> signal line)
> - Every 10 minutes I:
> - Press the shutter to stop recording.
> - Wait 10 seconds for the cameras to close the files.
> - Press the shutter to begin recording.
> - At 10,000 feet or maybe higher, I stop recording and set the cameras into
> recharge/keep warm mode. Things are a bit boring in that range and this
> extends my battery life.
> - At 60,000 feet I begin recording again.
> - I usually continue recording in 10 minute chunks all the way to burst and
> back to the ground.
>
> I hope this sparks some interest and discussion at the conference. I
> can't attend in person but thanks to the efforts of the organizers I'll be
> watching from the comfort of my easy chair.
>
> 73, Bruce
> VE5BNC
> SABRE - http://ve5aa.dyndns.org
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>
> Attachment(s) from Bruce Coates
>
> 1 of 1 File(s)
> Mini Video.zip<http://xa.yimg.com/kq/groups/6764416/1452526001/name/Mini%20Video.zip>
>
>

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Onwards and Upwards,
Paul

7700. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 18:33:45 UTC
From: L. Paul Verhage
Topic: 7693 Message: 7700
Attachments: 1 described; binary payloads are missing from this source WARC

Mark, I, and Pella have been discussing the switch. It sounds like that will be fine with people. Please let me know (offline if you'd like) that the switch will work for you.

Paul

On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Which I am looking forward to.
>
> Rog KC0MWM
>
>
> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> I believe Mark Conner is on the schedule for 2011.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
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>>
>> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>>
>>> Cool,
>>>
>>> I could even maybe make it to that location,
>>>
>>> How about at the Airport? maybe have use of a hanger or two?
>>>
>>> Joe WB9SBD
>>> Near Space Sciences KB9KHO
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
>>>

>>> Looks like some guys are volunteering for next year.
>>> http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html
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Onwards and Upwards,
Paul

7701. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 18:37:07 UTC
From: HarryM
Topic: 7693 Message: 7701

Discuss it in the Forum Friday!

73 Harry KC5TRB

Mark, I, and Pella have been discussing the switch. It sounds like that will be fine with people. Please let me know (offline if you'd like) that the switch will work for you.

7702. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 18:47:21 UTC
From: Mark Conner
Topic: 7693 Message: 7702
Attachments: 1 described; binary payloads are missing from this source WARC

As I've let people know offline, I am OK with switching to hosting in Omaha in 2012 if there is consensus to do so. Feel free to discuss this on Friday and let me know - I don't have any particular inputs to add to the discussion. Wish I was going to be there, but even if I had been planning to attend some things have occurred in the last week that would have forced me to back out this year anyway.

73 de Mark N9XTN

On Wed, Jul 21, 2010 at 13:33, L. Paul Verhage <nearsys@...> wrote:

>
>
> Mark, I, and Pella have been discussing the switch. It sounds like that
> will be fine with people. Please let me know (offline if you'd like) that
> the switch will work for you.
>
> Paul
>
> On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond <kc0mwm@...> wrote:
>
>>
>>
>> Which I am looking forward to.
>>
>> Rog KC0MWM
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>> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@...> wrote:
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>>> I believe Mark Conner is on the schedule for 2011.
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>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org
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>>> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>>>
>>>> Cool,
>>>>
>>>> I could even maybe make it to that location,

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>>>> How about at the Airport? maybe have use of a hanger or two?
>>>>
>>>> Joe WB9SBD
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>>>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
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>>>> Looks like some guys are volunteering for next year.
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> Onwards and Upwards,
> Paul
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7703. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 18:57:15 UTC
From: Pete Lilja
Topic: 7693 Message: 7703
Attachments: 1 described; binary payloads are missing from this source WARC

I would love to see it in Pella! Iowa is a wonderful place.

It's this weekend at the end of July that is problematic for me....

Pete
KC0GPB

On Wed, Jul 21, 2010 at 1:33 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Mark, I, and Pella have been discussing the switch. It sounds like that
> will be fine with people. Please let me know (offline if you'd like) that
> the switch will work for you.
>
> Paul
>
> On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond <kc0mwm@...> wrote:
>
>>
>>
>> Which I am looking forward to.
>>
>> Rog KC0MWM
>>
>>
>> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@...> wrote:
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>>>
>>> I believe Mark Conner is on the schedule for 2011.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org
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>>> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>>>
>>>> Cool,
>>>>
>>>> I could even maybe make it to that location,
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>>>> How about at the Airport? maybe have use of a hanger or two?

>>>>
>>>> Joe WB9SBD
>>>> Near Space Sciences KB9KHO
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>>>> The Original Rolling Ball Clock
>>>> Idle Tyme
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>>>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
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>>>> http://www.pellaarc.com/Projects/The%20Great%20Plains%20Super%20Launch/Launch%20Sites/Launch%20Sites.html
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> Onwards and Upwards,
> Paul
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7704. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 19:00:52 UTC
From: L. Paul Verhage
Topic: 7693 Message: 7704
Attachments: 1 described; binary payloads are missing from this source WARC

Wonderful??? But it's so flat.
;)

Paul

On Wed, Jul 21, 2010 at 1:57 PM, Pete Lilja <plilja@...> wrote:

>
>
> I would love to see it in Pella! Iowa is a wonderful place.
>
> It's this weekend at the end of July that is problematic for me....
>
> Pete
> KC0GPB
>
> On Wed, Jul 21, 2010 at 1:33 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> Mark, I, and Pella have been discussing the switch. It sounds like that
>> will be fine with people. Please let me know (offline if you'd like) that
>> the switch will work for you.
>>
>> Paul
>>
>> On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond <kc0mwm@...>wrote:
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>>>
>>>
>>> Which I am looking forward to.
>>>
>>> Rog KC0MWM
>>>
>>>
>>> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@...> wrote:
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>>>> I believe Mark Conner is on the schedule for 2011.
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>>>> Zack Clobes, W0ZC
>>>> Project: Traveler
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>>>> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>>>>
>>>>> Cool,
>>>>>
>>>>> I could even maybe make it to that location,
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>>>>> How about at the Airport? maybe have use of a hanger or two?
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>>>>> Joe WB9SBD
>>>>> Near Space Sciences KB9KHO
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>>>>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

7705. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 20:55:05 UTC
From: Pete Lilja
Topic: 7693 Message: 7705
Attachments: 1 described; binary payloads are missing from this source WARC

Aw, it's not as flat as you may think. Kansas is flat. Iowa has beautiful rolling hills covered in corn and soybeans with occasional wooded areas. Plus, in many parts of the state there is a road every square mile making for easy recovery of downed payload packages!

Some have said "Is this Heaven?" With the response "No, it's Iowa." Truer words rarely spoken, IMO.

Pete

On Wed, Jul 21, 2010 at 2:00 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Wonderful??? But it's so flat.
> ;)
>
> Paul
>
>
>
> On Wed, Jul 21, 2010 at 1:57 PM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> I would love to see it in Pella! Iowa is a wonderful place.
>>
>> It's this weekend at the end of July that is problematic for me....
>>
>> Pete
>> KC0GPB
>>
>> On Wed, Jul 21, 2010 at 1:33 PM, L. Paul Verhage <nearsys@...>wrote:
>>
>>>
>>>
>>> Mark, I, and Pella have been discussing the switch. It sounds like that
>>> will be fine with people. Please let me know (offline if you'd like) that
>>> the switch will work for you.
>>>
>>> Paul
>>>
>>> On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond <kc0mwm@...>wrote:
>>>
>>>>

>>>>
>>>> Which I am looking forward to.
>>>>
>>>> Rog KC0MWM
>>>>
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>>>> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes <zclobes@gmail.com>wrote:
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>>>>>
>>>>>
>>>>> I believe Mark Conner is on the schedule for 2011.
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>>>>> Zack Clobes, W0ZC
>>>>> Project: Traveler
>>>>> www.projecttraveler.org
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>>>>> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...> wrote:
>>>>>
>>>>>> Cool,
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>>>>>> I could even maybe make it to that location,
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>>>>>> How about at the Airport? maybe have use of a hanger or two?
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>>>>>> On 7/21/2010 9:31 AM, Keith Kaiser wrote:
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7706. Re: [GPSL] The Future of GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 23:28:01 UTC
From: Joe
Topic: 7693 Message: 7706
Attachments: 2 described; binary payloads are missing from this source WARC

And Pigs!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/21/2010 3:55 PM, Pete Lilja wrote:
>
>
> Aw, it's not as flat as you may think. Kansas is flat. Iowa has
> beautiful rolling hills covered in corn and soybeans with occasional
> wooded areas. Plus, in many parts of the state there is a road every
> square mile making for easy recovery of downed payload packages!
>
> Some have said "Is this Heaven?" With the response "No, it's Iowa."
> Truer words rarely spoken, IMO.
>
> Pete
>
> On Wed, Jul 21, 2010 at 2:00 PM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
> Wonderful??? But it's so flat.
> ;)
> Paul
>
>
> On Wed, Jul 21, 2010 at 1:57 PM, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
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> I would love to see it in Pella! Iowa is a wonderful place.
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> It's this weekend at the end of July that is problematic for
> me....
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> Pete
> KC0GPB
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> On Wed, Jul 21, 2010 at 1:33 PM, L. Paul Verhage
> <nearsys@... <mailto:nearsys@...>> wrote:
>

> Mark, I, and Pella have been discussing the switch. It
> sounds like that will be fine with people. Please let me
> know (offline if you'd like) that the switch will work for
> you.
> Paul
>
> On Wed, Jul 21, 2010 at 12:53 PM, Roger Hammond
> <kc0mwm@... <mailto:kc0mwm@...>> wrote:
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> Which I am looking forward to.
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> On Wed, Jul 21, 2010 at 10:59 AM, Zack Clobes
> <zclobes@... <mailto:zclobes@...>> wrote:
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> I believe Mark Conner is on the schedule for 2011.
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> On Wed, Jul 21, 2010 at 9:51 AM, Joe <nss@...
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> I could even maybe make it to that location,
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> On 7/21/2010 9:31 AM, Keith Kaiser wrote:

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7707. Topic for Discussion During Friday Meeting

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-21 23:59:56 UTC
From: Doug Loughmiller
Topic: 7707 Message: 7707

Hi Everybody,

First of all, I want to wish everyone a safe and enjoyable GPSL 2010. Unfortunately, I won't be able to attend this year. I had a small accident a couple of months back that required surgery to fix so the time and money I had budgeted to attend the GPSL this year was spent getting back on my feet.

A topic that I would like the group to discuss regarding future meetings has to do with the date chosen for the event. I seem to recall that the GPSL used to be held around the 4th of July but was then moved to the end of July. For me, and I know others, there is a hard conflict with the last weekend in July as this is the weekend that the Central States VHF Conference is held and has been for several decades. Given that both events are held somewhere in the Midwest and involves folks with similar interests, I'd like to ask the group to consider selecting another weekend to hold the GPSL. (Possibly the third weekend in July or the first weekend in August)?

In any case, I would appreciate it if some thought would be given to my request. Have fun flying Saturday and I will be "watching" from home via aprs.fi

73,

Doug, W5BL

7708. Re: [GPSL] Hacking the "Spy" cameras for use in balloon payloads. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 00:31:22 UTC
From: Bruce Coates
Topic: 7696 Message: 7708

Hi

I see there's a small type-o. The two cameras I make reference to can be found on eBay by searching for:

Chewing Gum Spy
or
MD80 Spy

You also want to stick with the 720x480 models. Both of these are 640x480 images stretched to 720x480 so they a bit distorted but it's not very noticeable. I tried the 1280x960 models and they're terrible because it's just a 640x480 image scaled up.

73, Bruce

----- Original Message -----
From: Bruce Coates

... this a way to hack into the "Mini DV" and "Chewing Gum" "spy" cameras you find on eBay.

7709. Quick question

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 01:25:10 UTC
From: Zack Clobes
Topic: 7709 Message: 7709

With the CHDK firmware installed, how do I get it to auto-run my intervalv program? The write-protect is set, and the CHDK itself is auto-starting, just not my basic script.

Zack

7710. WebEx Information for Friday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 03:01:23 UTC
From: Zack Clobes
Topic: 7710 Message: 7710

Below is the WebEx information. The whole thing was put together,
relatively last-minute so all I can say is that I'm hoping for the best.
Please note, we are limited to 25 connected users, therefore we have decided
NOT to publish this for the general public this year.

There are two sessions - an AM and a PM. You will have to disconnect from
the AM during our lunch break, and reconnect in the afternoon.

I will try my best to make this an enjoyable experience for all. If you
have questions or comments during the symposium, the best way to contact me
would probably be via email.

Great Plains Super Launch - 9:00AM (Central)

Topic: Great Plains Super Launch - AM
Date: Friday, July 23, 2010
Time: 9:00 am, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 807 219 661
Meeting Password: gpsl

To join the online meeting (Now from iPhones too!)
---
1. Go to
https://hutchcu.webex.com/hutchcu/j.php?ED=138390597&UID=1131491617&PW=NMzFmNDNhZTE5&RT=Mi
M3
2. If requested, enter your name and email address.
3. If a password is required, enter the meeting password: gpsl
4. Click "Join".
5. Follow the instructions that appear on your screen.

Great Plains Super Launch - 12:00PM (Central)

Topic: Great Plains Super Launch - PM
Date: Friday, July 23, 2010
Time: 12:00 pm, Central Daylight Time (Chicago, GMT-05:00)
Meeting Number: 808 991 015
Meeting Password: gpsl

To join the online meeting (Now from iPhones too!)
---
1. Go to
https://hutchcu.webex.com/hutchcu/j.php?ED=138390632&UID=1131491642&PW=NNThlOGY3NmJk&RT=Mi
M3
2. If requested, enter your name and email address.

3. If a password is required, enter the meeting password: gpsl
4. Click "Join".
5. Follow the instructions that appear on your screen.

7711. Re: [GPSL] Quick question

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 03:14:09 UTC
From: Rick von Glahn
Topic: 7709 Message: 7711

You need to go into the CHDK menu system and set the script to automatically run when the CHDK system boots. I don't have a camera handy so can't tell you exactly how to get to the right menu but as I recall it was pretty easy to find once I knew what I had to do.

Rick

On Wed, 21 Jul 2010 20:25 -0500, "Zack Clobes" <zclobes@...> wrote:

With the CHDK firmware installed, how do I get it to auto-run my intervalv program? The write-protect is set, and the CHDK itself is auto-starting, just not my basic script.
Zack

References

1. http://groups.yahoo.com/group/GPSL/join;_ylc=X3oDMTJmaWV2NG5kBF9TAzk3NDc2NTkwBGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA3N0bmdzBHN0aW1lAzEyNzk3NjE5ODA-
2. mailto:GPSL-digest@yahoogroups.com?subject=Email%20Delivery:%20Digest
3. mailto:GPSL-fullfeatured@yahoogroups.com?subject=Change%20Delivery%20Format:%20Fully%20Featured
4. http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJkZDg3NTBuBF9TAzk3NDc2NTkwBGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2hwZgRzdGltZQMxMjc5NzYxOTgw
5. http://docs.yahoo.com/info/terms/
6. mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe

--
73 -- Rick, N0KKZ

7712. Re: [GPSL] Quick question

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 10:41:14 UTC
From: L. Paul Verhage
Topic: 7709 Message: 7712

That sounds right. Without auto-run, you have to go to the menu key, select
the program and then start it.

Paul

On Wed, Jul 21, 2010 at 10:14 PM, Rick von Glahn <rick@...> wrote:

>
>
> You need to go into the CHDK menu system and set the script to
> automatically run when the CHDK system boots. I don't have a camera handy so
> can't tell you exactly how to get to the right menu but as I recall it was
> pretty easy to find once I knew what I had to do.
>
> Rick
>
> On Wed, 21 Jul 2010 20:25 -0500, "Zack Clobes" <zclobes@...> wrote:
>
>
>
> With the CHDK firmware installed, how do I get it to auto-run my intervalv
> program? The write-protect is set, and the CHDK itself is auto-starting,
> just not my basic script.
>
> Zack
>
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>
>
> --
> 73 -- Rick, N0KKZ
>
>
>
>
>

--
Onwards and Upwards,
Paul

7713. Re: [GPSL] Quick question

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 14:06:52 UTC
From: dvpatterson@comcast.net
Topic: 7709 Message: 7713

To enable autostart , enter Alt mode, access the main menu, then access the Scripts menu. Make sure that your intervalv script is the active script, and look for the Autostart param . Enable autostart , then power down. On the next powerup , the camera will enter play mode, but the script will be running, and will enter record mode when it gets to a record command (e.g. "shoot"). On my A480, the options are Off, Once, and On, and it works great.

-David

----- Original Message -----
From: "Zack Clobes " < zclobes @ gmail .com>
To: "Group GPSL " < GPSL @ yahoogroups .com>
Sent: Wednesday, July 21, 2010 7:25:10 PM
Subject: [GPSL] Quick question

With the CHDK firmware installed, how do I get it to auto-run my intervalv program? The write-protect is set, and the CHDK itself is auto-starting, just not my basic script.

Zack

7714. Streaming video for the Saturday launches from GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 19:57:28 UTC
From: wb8elk@aol.com
Topic: 7714 Message: 7714

I won't be able to attend GPSL....I have recovered from being ill earlier this week but too wiped out to make the 850 mile drive. I looked into airfare, but couldn't find anything reasonable at this late date.

I was wondering if anyone has a cellular enabled netbook that can stream the video of the launches on Saturday?....I can let whoever has this capability use my BATC.TV account info for the stream...just let me know.

I look forward to being there on Friday via Internet virtual reality and am planning to give my talk via Zack's Webex service....it includes a webcam insert.

I will miss being there in person, but at least I can experience it vicariously via the Internet.

- Bill WB8ELK

7715. More good (AR)HAB press

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 20:56:08 UTC
From: Zack Clobes
Topic: 7715 Message: 7715

http://www.technewsdaily.com/hobbyists-take-out-of-this-world-images-of-earth-0902/

7716. Re: [GPSL] Streaming video for the Saturday launches from GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 21:18:58 UTC
From: L. Paul Verhage
Topic: 7714 Message: 7716

Sorry to hear you'll miss. Are you still inerested in trading batteries for balloons? I suspect I'm not allowed to mail them. Do you know for sure?

Paul

On Thu, Jul 22, 2010 at 2:57 PM, <wb8elk@...> wrote:

>
>
> I won't be able to attend GPSL....I have recovered from being ill earlier
> this week but too wiped out to make the 850 mile drive. I looked into
> airfare, but couldn't find anything reasonable at this late date.
>
> I was wondering if anyone has a cellular enabled netbook that can stream
> the video of the launches on Saturday?....I can let whoever has this
> capability use my BATC.TV <http://batc.tv/> account info for the
> stream...just let me know.
>
> I look forward to being there on Friday via Internet virtual reality and am
> planning to give my talk via Zack's Webex service....it includes a webcam
> insert.
>
> I will miss being there in person, but at least I can experience it
> vicariously via the Internet.
>
> - Bill WB8ELK
>
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>

--
Onwards and Upwards,
Paul

7717. Re: [GPSL] Streaming video for the Saturday launches from GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 21:35:04 UTC
From: Mike Manes
Topic: 7714 Message: 7717

Bummer! GPSL won't be the same w/o the grampa of ARHAB.
Steve K0SCC may be streaming some video - check www.eoss.tv.
Hope you and I can cross paths again - maybe next GPSL?
73 from Hutch de Mike W5VSI

On 7/22/10, wb8elk@... <wb8elk@...> wrote:
>
> I won't be able to attend GPSL....I have recovered from being ill earlier
> this week but too wiped out to make the 850 mile drive. I looked into
> airfare, but couldn't find anything reasonable at this late date.
>
> I was wondering if anyone has a cellular enabled netbook that can stream the
> video of the launches on Saturday?....I can let whoever has this capability
> use my BATC.TV account info for the stream...just let me know.
>
> I look forward to being there on Friday via Internet virtual reality and am
> planning to give my talk via Zack's Webex service....it includes a webcam
> insert.
>
> I will miss being there in person, but at least I can experience it
> vicariously via the Internet.
>
> - Bill WB8ELK
>
>
>
>
>

7718. Terry Pratchett

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 22:11:59 UTC
From: L. Paul Verhage
Topic: 7718 Message: 7718

Build a man a fire, and he'll be warm for a day. Set a man on fire, and
he'll be warm for the rest of his life." – Sir Terry Pratchett.
--
Onwards and Upwards,
Paul

7719. Re: [GPSL] Terry Pratchett

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-22 22:19:35 UTC
From: Zack Clobes
Topic: 7718 Message: 7719

So you decided to fly Hydrogen, eh?

Zack

On Thu, Jul 22, 2010 at 5:11 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
>
> Build a man a fire, and he'll be warm for a day. Set a man on fire, and
> he'll be warm for the rest of his life." – Sir Terry Pratchett.
> --
> Onwards and Upwards,
> Paul
>
>

7720. Re: [GPSL] Streaming video for the Saturday launches from GPSL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-23 02:12:53 UTC
From: Keith Kaiser
Topic: 7714 Message: 7720

Bill,

I'll try and stream the launch. I have my own account so won't need yours. But I'm so sorry to hear you won't be here. I can't imagine a GPSL without you.

Do you have the information about the WebEx of the conference so you can at least look in and keep us honest?

On Jul 22, 2010, at 2:57 PM, wb8elk@... wrote:

>
> I won't be able to attend GPSL....I have recovered from being ill earlier this week but too wiped out to make the 850 mile drive. I looked into airfare, but couldn't find anything reasonable at this late date.
>
> I was wondering if anyone has a cellular enabled netbook that can stream the video of the launches on Saturday?....I can let whoever has this capability use my BATC.TV account info for the stream...just let me know.
>
> I look forward to being there on Friday via Internet virtual reality and am planning to give my talk via Zack's Webex service....it includes a webcam insert.
>
> I will miss being there in person, but at least I can experience it vicariously via the Internet.
>
> - Bill WB8ELK
>
>
>
>
>

7721. GPSL launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-24 13:40:55 UTC
From: Roger Hammond
Topic: 7721 Message: 7721

Looks like the first balloons are off the ground at Hutchinson, KS.

Rog KC0MWM

7722. Re: [GPSL] GPSL launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-24 14:23:53 UTC
From: natewac@aol.com
Topic: 7721 Message: 7722

What freq is W9YJ using?

-----Original Message-----
From: Roger Hammond <kc0mwm@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Sat, Jul 24, 2010 9:40 am
Subject: [GPSL] GPSL launch

Looks like the first balloons are off the ground at Hutchinson, KS.

Rog KC0MWM

7723. Most groups are recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-24 17:54:14 UTC
From: Zack Clobes
Topic: 7723 Message: 7723

ARBONET's last position was at 14k on the descent. Predictions should place it within about 1 square mile, around highway 56th and 4th, west of McPherson.

Haven't heard from EOSS or ORB.

Traveler's lanyard managed to wrap around the load line, and cut the balloon free at release. We had to re-fill and relaunch. Unfortunately, the drop impact seems to have shut both of our on-board cameras down, and we did not get any photos. APRS worked well otherwise.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7724. Lunch is at Montana Mike's in McPherson.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-24 17:55:44 UTC
From: Zack Clobes
Topic: 7724 Message: 7724

Traveler should be back in Hutch by 3:00 and will open up Hutch Credit Union for de-briefing.

Dinner will be at Montana Mike's in Hutchinson at 6:30pm.

7725. Great GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 02:01:41 UTC
From: L. Paul Verhage
Topic: 7725 Message: 7725

Zack, that was a great GPSL, thanks.

Sorry I couldn't join everyone for dinner. I've got homework, classes, and my GRA Monday. I'll download my data and pass it on to the group.

I'd like to investigate the next step with the AMA. Do we want to dicuss this further?

--
Onwards and Upwards,
Paul

7726. Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 02:54:08 UTC
From: Zack Clobes
Topic: 7726 Message: 7726

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

I will try to get a survey put out in the next few days to solicit some input for future editions.

And speaking of the future, I'm not sure where it's headed over the next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course I'd love to have you all back *any* time... (actually 2013 is probably bad for me. Is it sad to be planning your life that far out?). I'm going to defer those questions to Paul for now.

Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

7727. Recoveries

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 03:37:26 UTC
From: Zack Clobes
Topic: 7727 Message: 7727

For those of you who weren't here, there were two non-recoveries.

ARBONET lost telemetry on their package around burst time, and picked up a few packets at 14k but were never able to hear it again on the ground. A team of Project: Traveler and ORB scoured the area for a couple of hours.

The WL7II-10 flight also had intermittent telemetry up to around 60k. Despite EOSS's best efforts, the telemetry nor the secondary beacons were ever picked up on the ground.

All other flights were successful. Project: Traveler was next-to-last to launch, first to recover, and was feeling so good that we decided to launch again. I think everyone else was pretty well recovered before lunch time.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7728. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 04:54:07 UTC
From: wb8elk@aol.com
Topic: 7726 Message: 7728

Zack...thanks for putting together a great GPSL2010 ... even attending through virtual reality it felt just like I was there via that great Webex link. There were over 13 others attending via Webex from around the World. After you changed the WiFi access, it was very smooth with no dropouts...great stuff and I really enjoyed everyone's presentations. If you have a place to upload the PPT's, that would be great as I missed a lot of the EOSS presentation due to the spotty WiFi link during the first two hours. It was great seeing everyone via the streaming video webcams from EOSS and WA0TJT as well. There were about 10 of us watching the launches via Keith WA0TJT's BATC.TV video stream as well on Saturday morning....looked like some exciting inflations with the wind gusts. It was fun watching Kansas get covered up by APRS balloon tracks and chase vehicles. Ron N9QGS also had a DominoEX transmitter on the BASE balloon that was linked to the Spacenear.us/tracker website and that worked well until the final descent when his cell modem hit his upload limit...quite a few were watching there as well.

I'll make every effort to attend GPSL2011 even if I have to build a matter transporter or 3-D hologram projector to do it.

- Bill WB8ELK

Does anyone have a list of the balloons launched and their callsigns and frequencies on each?

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, Jul 24, 2010 9:54 pm
Subject: [GPSL] Thank you all!

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

I will try to get a survey put out in the next few days to solicit some input for future editions.

And speaking of the future, I'm not sure where it's headed over the next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course I'd love to have you all back any time... (actually 2013 is probably bad for me. Is it sad to be planning your life that far out?). I'm going to defer those questions to Paul for now.

Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

7729. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 04:57:26 UTC
From: L. Paul Verhage
Topic: 7726 Message: 7729

Right now we have Pella, IA for 2011 and Omaha, NE for 2012. Nothing is planned for 2013 at this time. I'm amazed that we have GPSL planned this far out. Normally, we wouldn't have decided next year yet.

That being said, 2012 is the 25th anniversary of modern ARHAB. We should make 2012 a special year. I'd like to see a year book with pictures and data from ev ery flight that year.

I'd also like to see us start a FDSL. It wouldn't be located in a singe location like GPSL. But we could coordinate our launches and great special QSL cards for everyone making a contact through a balloon on FD. It would be nice if we could talk to someone ar ARRL about this being a category they recognize. But if they don't want to, then sending out QSL cards that rode into near space may attract enough attention to makes some contacts.

Paul

On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes <zclobes@...> wrote:

>
>
> Thank you all very much for attending, the conversations, the kind words,
> and the comradery. Crys and I really enjoy this - she said it feels like a
> family reunion, and I have to agree. Honestly, hosting is a lot of hard
> work, but I thoroughly enjoy it and wouldn't change a thing.
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> I will try to get a survey put out in the next few days to solicit some
> input for future editions.
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> And speaking of the future, I'm not sure where it's headed over the next
> couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course
> I'd love to have you all back *any* time... (actually 2013 is probably bad
> for me. Is it sad to be planning your life that far out?). I'm going to
> defer those questions to Paul for now.
>
>
> Please have a safe trip home, and keep an eye on the weather. I don't
> anticipate anything too severe tonight, but keep your eyes open.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> P.S. I'd like to get a central photo sharing site put together, I was

> thinking maybe Picasa. Does anyone have any recommendations?
>
>
>
>

--
Onwards and Upwards,
Paul

7730. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 08:21:46 UTC
From: wb8elk@aol.com
Topic: 7726 Message: 7730

Hi Paul....I'm all for a Field Day Superlaunch....I've flown during Field Day the past 3 years now and it's a blast and gets a lot of the local hams and public interested.

The 25th Anniversary Yearbook is a good idea.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@gmail.com>
To: GPSL@yahoogroups.com
Sent: Sat, Jul 24, 2010 11:57 pm
Subject: Re: [GPSL] Thank you all!

Right now we have Pella, IA for 2011 and Omaha, NE for 2012. Nothing is planned for 2013 at this time. I'm amazed that we have GPSL planned this far out. Normally, we wouldn't have decided next year yet.

That being said, 2012 is the 25th anniversary of modern ARHAB. We should make 2012 a special year. I'd like to see a year book with pictures and data from ev ery flight that year.

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Paul

On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes <zclobes@...> wrote:

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

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Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

--
Onwards and Upwards,
Paul

7731. Recording of the streaming video of the launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 08:29:08 UTC
From: wb8elk@aol.com
Topic: 7731 Message: 7731

Recorded by Doug KB9ZWL from the WA0TJT streaming video of the launches.

- Bill WB8ELK

-----Original Message-----
From: Douglas Crandall <dmcrandall@...>
To: wb8elk@...
Sent: Sat, Jul 24, 2010 11:01 am
Subject: GPSL video

Bill,
ere the link to the short launch video:
ttp://dl.dropbox.com/u/851953/gpsl0001.wmv

7732. Re: [GPSL] Recoveries

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 11:43:19 UTC
From: Mike Manes
Topic: 7727 Message: 7732

Condolences to both teams from the great State of Texas. Just goes to show
that Ma Nature and Murphy set the bar really high to achieving the perfect
flight.

And congratulations to Zack for not only having surmounted that tall barrier,
but also, and not least" for having assembled a truly memorable GPSL, and
his third to date. Kudos!!

EOSS managed to retain a tenuous grasp on its 100% recovery record, thanks
in a great part to our good friends from days of yore, Mike N0MPM, Harry KC5TRB
and John K5JFD.

73 es CUAGN at GPSL 2011,
de Mike W5VSI, EOSS

On 7/24/10, Zack Clobes <zclobes@...> wrote:
> For those of you who weren't here, there were two non-recoveries.
>
> ARBONET lost telemetry on their package around burst time, and picked up a
> few packets at 14k but were never able to hear it again on the ground. A
> team of Project: Traveler and ORB scoured the area for a couple of hours.
>
> The WL7II-10 flight also had intermittent telemetry up to around 60k.
> Despite EOSS's best efforts, the telemetry nor the secondary beacons were
> ever picked up on the ground.
>
>
> All other flights were successful. Project: Traveler was next-to-last to
> launch, first to recover, and was feeling so good that we decided to launch
> again. I think everyone else was pretty well recovered before lunch time.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>

7733. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 13:29:50 UTC
From: Roger Hammond
Topic: 7726 Message: 7733

Zack,

I agree with Bill. As a virtual attendee I thought you did a great job of making it a pleasurable experience. With a little luck I'll see you all in IA next year.
Thanks again for all of your hard work.

Rog KC0MWM
CNNSP

On Sat, Jul 24, 2010 at 11:54 PM, <wb8elk@...> wrote:

>
>
> Zack...thanks for putting together a great GPSL2010 ... even attending
> through virtual reality it felt just like I was there via that great Webex
> link. There were over 13 others attending via Webex from around the
> World. After you changed the WiFi access, it was very smooth with no
> dropouts...great stuff and I really enjoyed everyone's presentations. If you
> have a place to upload the PPT's, that would be great as I missed a lot
> of the EOSS presentation due to the spotty WiFi link during the first two
> hours. It was great seeing everyone via the streaming video webcams from
> EOSS and WA0TJT as well. There were about 10 of us watching the launches via
> Keith WA0TJT's BATC.TV video stream as well on Saturday morning....looked
> like some exciting inflations with the wind gusts. It was fun watching
> Kansas get covered up by APRS balloon tracks and chase vehicles. Ron N9QGS
> also had a DominoEX transmitter on the BASE balloon that was linked to the
> Spacenear.us/tracker website and that worked well until the final descent
> when his cell modem hit his upload limit...quite a few were watching there
> as well.
>
> I'll make every effort to attend GPSL2011 even if I have to build a matter
> transporter or 3-D hologram projector to do it.
>
> - Bill WB8ELK
>
> Does anyone have a list of the balloons launched and their callsigns and
> frequencies on each?
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com>
> Sent: Sat, Jul 24, 2010 9:54 pm
> Subject: [GPSL] Thank you all!

>
>
> Thank you all very much for attending, the conversations, the kind words,
> and the comradery. Crys and I really enjoy this - she said it feels like a
> family reunion, and I have to agree. Honestly, hosting is a lot of hard
> work, but I thoroughly enjoy it and wouldn't change a thing.
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> input for future editions.
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> And speaking of the future, I'm not sure where it's headed over the next
> couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course
> I'd love to have you all back *any* time... (actually 2013 is probably bad
> for me. Is it sad to be planning your life that far out?). I'm going to
> defer those questions to Paul for now.
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>
> Please have a safe trip home, and keep an eye on the weather. I don't
> anticipate anything too severe tonight, but keep your eyes open.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> P.S. I'd like to get a central photo sharing site put together, I was
> thinking maybe Picasa. Does anyone have any recommendations?
>
>
>
>
>

7734. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 14:26:37 UTC
From: Joe
Topic: 7726 Message: 7734
Attachments: 1 described; binary payloads are missing from this source WARC

I personally Hate Picassa,

Why not use the photo area right here on the group itself,
you can make a main filder GPSL 2010 and stuff all the pic in there or
even make sub folders inside that folder etc. to make sub catagories
Like the presentations,, launches grops etc.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/24/2010 9:54 PM, Zack Clobes wrote:
>
>
> Thank you all very much for attending, the conversations, the kind
> words, and the comradery. Crys and I really enjoy this - she said it
> feels like a family reunion, and I have to agree. Honestly, hosting
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> next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS),
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> 2013 is probably bad for me. Is it sad to be planning your life that
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>
> P.S. I'd like to get a central photo sharing site put together, I was
> thinking maybe Picasa. Does anyone have any recommendations?
>

>
>
>

7735. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 14:29:53 UTC
From: Joe
Topic: 7726 Message: 7735
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Bill,

and from a fellow Birthday Boy that attended remotely, that was cool!

Again there is a LOT of storage space right here on the groups site.
Please do stuff the PPT files or anything else right here for all.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/24/2010 11:54 PM, wb8elk@... wrote:
>
>
> Zack...thanks for putting together a great GPSL2010 ... even attending
> through virtual reality it felt just like I was there via that great
> Webex link. There were over 13 others attending via Webex from around
> the World. After you changed the WiFi access, it was very smooth with
> no dropouts...great stuff and I really enjoyed everyone's
> presentations. If you have a place to upload the PPT's, that would be
> great as I missed a lot of the EOSS presentation due to the spotty
> WiFi link during the first two hours. It was great seeing everyone via
> the streaming video webcams from EOSS and WA0TJT as well. There were
> about 10 of us watching the launches via Keith WA0TJT's BATC.TV video
> stream as well on Saturday morning....looked like some exciting
> inflations with the wind gusts. It was fun watching Kansas get covered
> up by APRS balloon tracks and chase vehicles. Ron N9QGS also had
> a DominoEX transmitter on the BASE! ! balloon that was linked to the
> Spacenear.us/tracker website and that worked well until the final
> descent when his cell modem hit his upload limit...quite a few were
> watching there as well.
> I'll make every effort to attend GPSL2011 even if I have to build a
> matter transporter or 3-D hologram projector to do it.
> - Bill WB8ELK
> Does anyone have a list of the balloons launched and their callsigns
> and frequencies on each?
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com>

> Sent: Sat, Jul 24, 2010 9:54 pm
> Subject: [GPSL] Thank you all!
>
> Thank you all very much for attending, the conversations, the kind
> words, and the comradery. Crys and I really enjoy this - she said it
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> far out?). I'm going to defer those questions to Paul for now.
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> anticipate anything too severe tonight, but keep your eyes open.
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> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org/>
>
>
> P.S. I'd like to get a central photo sharing site put together, I was
> thinking maybe Picasa. Does anyone have any recommendations?
>
>
>
>

7736. Re: [GPSL] Recording of the streaming video of the launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 14:38:31 UTC
From: Keith Kaiser
Topic: 7731 Message: 7736

Next time I do this, I'll be sure to put the sun behind me. This is the first time I actually did streaming from outside. I'm surprised at the quality of both the sound and picture.

As it turns out I didn't have to leave so early, we could have stayed and showed the rest of the launches. I feel bad I didn't do that in fact.

Lessons learned are always there and I learned a lot about doing this streaming video thing. Next time it will be better.

Thanks for the video link Bill and thanks for keeping a copy of it Douglas.

On Jul 25, 2010, at 3:29 AM, wb8elk@... wrote:

>
> Recorded by Doug KB9ZWL from the WA0TJT streaming video of the launches.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Douglas Crandall <dmcrandall@...>
> To: wb8elk@...
> Sent: Sat, Jul 24, 2010 11:01 am
> Subject: GPSL video
>
> Bill,
> Here the link to the short launch video:
> http://dl.dropbox.com/u/851953/gpsl0001.wmv
>
>

7737. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 15:33:51 UTC
From: James Coxon
Topic: 7726 Message: 7737
Attachments: 1 described; binary payloads are missing from this source WARC

Hi all,
Just to say - had a lot of fun with the remote attendance - any chance the presentations were recorded - managed to miss all of them!

James
M6JCX

http://www.pegasushabproject.org.uk

On 25 July 2010 15:29, Joe <nss@...> wrote:

> Hi Bill,
>
> and from a fellow Birthday Boy that attended remotely, that was cool!
>
> Again there is a LOT of storage space right here on the groups site.
> Please do stuff the PPT files or anything else right here for all.
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/24/2010 11:54 PM, wb8elk@... wrote:
>
> Zack...thanks for putting together a great GPSL2010 ... even attending
> through virtual reality it felt just like I was there via that great Webex
> link. There were over 13 others attending via Webex from around the
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> hours. It was great seeing everyone via the streaming video webcams from
> EOSS and WA0TJT as well. There were about 10 of us watching the launches via
> Keith WA0TJT's BATC.TV video stream as well on Saturday morning....looked
> like some exciting inflations with the wind gusts. It was fun watching
> Kansas get covered up by APRS balloon tracks and chase vehicles. Ron N9QGS
> also had a DominoEX transmitter on the BASE! ! balloon that was linked to
> the Spacenear.us/tracker website and that worked well until the final
> descent when his cell modem hit his upload limit...quite a few were watching
> there as well.
>

> I'll make every effort to attend GPSL2011 even if I have to build a matter
> transporter or 3-D hologram projector to do it.
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> - Bill WB8ELK
>
> Does anyone have a list of the balloons launched and their callsigns and
> frequencies on each?
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...> <zclobes@...>
> To: Group GPSL <GPSL@yahoogroups.com> <GPSL@yahoogroups.com>
> Sent: Sat, Jul 24, 2010 9:54 pm
> Subject: [GPSL] Thank you all!
>
>
> Thank you all very much for attending, the conversations, the kind words,
> and the comradery. Crys and I really enjoy this - she said it feels like a
> family reunion, and I have to agree. Honestly, hosting is a lot of hard
> work, but I thoroughly enjoy it and wouldn't change a thing.
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>
> I will try to get a survey put out in the next few days to solicit some
> input for future editions.
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> And speaking of the future, I'm not sure where it's headed over the next
> couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course
> I'd love to have you all back *any* time... (actually 2013 is probably bad
> for me. Is it sad to be planning your life that far out?). I'm going to
> defer those questions to Paul for now.
>
>
> Please have a safe trip home, and keep an eye on the weather. I don't
> anticipate anything too severe tonight, but keep your eyes open.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> P.S. I'd like to get a central photo sharing site put together, I was
> thinking maybe Picasa. Does anyone have any recommendations?
>
>

7738. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 15:42:58 UTC
From: Mark Conner
Topic: 7726 Message: 7738

Picasa is great for integrating albums into your own websites. It's also a lot better for casual browsing. Just make sure the album is public so no Google signin is required.

As much as I like my new Droid, there's still no substitute for a real keyboard (home ISP still down).

Mark

On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...> wrote:

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

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Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

7739. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 16:11:20 UTC
From: Joe
Topic: 7726 Message: 7739
Attachments: 1 described; binary payloads are missing from this source WARC

Really on the casual browsing?

I found it the opposite to be true.

Now that I'm on DSL it's Ok, but when i was on Dialup, if someone ever sent me to a Picassa page or i should say a link to one, I'd just never ever go because the bandwidth required to look around was soo bad that nothing was ever seen. At least with the yahoo group format everything was small thumbnails and if one image looked interesting, then you could bother to download the large size, but you diddn't have to do them all.

Unless picassa is different now and a dialup person isn't killed like it used to be.

anyone send me a new Picassa site?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/25/2010 10:42 AM, Mark Conner wrote:
>
>
> Picasa is great for integrating albums into your own websites. It's
> also a lot better for casual browsing. Just make sure the album is
> public so no Google signin is required.
>
> As much as I like my new Droid, there's still no substitute for a real
> keyboard (home ISP still down).
>
> Mark
>
>> On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...
>> <mailto:zclobes@...>> wrote:
>>
>>
>>
>> Thank you all very much for attending, the conversations, the kind
>> words, and the comradery. Crys and I really enjoy this - she said it
>> feels like a family reunion, and I have to agree. Honestly, hosting
>> is a lot of hard work, but I thoroughly enjoy it and wouldn't change
>> a thing.

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>> I will try to get a survey put out in the next few days to solicit
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>>
>>
>>
>
>
>

7740. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 18:21:48 UTC
From: Zack Clobes
Topic: 7726 Message: 7740
Attachments: 1 described; binary payloads are missing from this source WARC

You can go to www.projecttraveler.org and click on the Photo Gallery to see one in Picasa.

Zack

On Sun, Jul 25, 2010 at 11:11 AM, Joe <nss@...> wrote:

> Really on the casual browsing?
>
> I found it the opposite to be true.
>
> Now that I'm on DSL it's Ok, but when i was on Dialup, if someone ever
> sent me to a Picassa page or i should say a link to one, I'd just never
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> Joe WB9SBD
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>
> As much as I like my new Droid, there's still no substitute for a real
> keyboard (home ISP still down).
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> Mark
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> On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...> wrote:
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> P.S. I'd like to get a central photo sharing site put together, I was
> thinking maybe Picasa. Does anyone have any recommendations?
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7741. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 16:42:22 UTC
From: Joe
Topic: 7726 Message: 7741
Attachments: 1 described; binary payloads are missing from this source WARC

I love the yearbook Idea.

Would it be just the GPSL launches, for that year, or all launches from everywhere?

Field Day is a no go for me. while yes I may be one of the original groups, only being a year behind Bill on doing these flights, I have yet been able to go to a GPSL. A few close friends know why. But even if it was possible, every Field Day since 1975 I have actually done "Field Day" ya know the whole 99% HF transmitting thing. it's a Big thing around here. so i'm tied up for sure on that day and all of my chase and recovery teams are also tied up on that weekend. So as far as a FD day launck NSS won't be able to.

Now as Paul says

" But we could coordinate our launches and great special QSL cards for everyone making a contact through a balloon on FD. It would be nice if we could talk to someone ar ARRL about this being a category they recognize. But if they don't want to, then sending out QSL cards that rode into near space may attract enough attention to makes some contacts."

Make some contacts is not a problem.. Well at least on our flights that we open for general public use Like cross band repeaters.

Our last cross band repeater flight 238 QSO's we made through the balloon. Thats not bad. A QSO rate than many contesters would love to have he he he..

Joe WB9SBD

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Idle Tyme
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On 7/25/2010 3:21 AM, wb8elk@... wrote:
>
>
> Hi Paul....I'm all for a Field Day Superlaunch....I've flown during
> Field Day the past 3 years now and it's a blast and gets a lot of the
> local hams and public interested.
> The 25th Anniversary Yearbook is a good idea.
> - Bill WB8ELK
>
>

> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, Jul 24, 2010 11:57 pm
> Subject: Re: [GPSL] Thank you all!
>
> Right now we have Pella, IA for 2011 and Omaha, NE for 2012. Nothing
> is planned for 2013 at this time. I'm amazed that we have GPSL
> planned this far out. Normally, we wouldn't have decided next year yet.
> That being said, 2012 is the 25th anniversary of modern ARHAB. We
> should make 2012 a special year. I'd like to see a year book with
> pictures and data from ev ery flight that year.
> I'd also like to see us start a FDSL. It wouldn't be located in a
> singe location like GPSL. But we could coordinate our launches and
> great special QSL cards for everyone making a contact through a
> balloon on FD. It would be nice if we could talk to someone ar ARRL
> about this being a category they recognize. But if they don't want
> to, then sending out QSL cards that rode into near space may attract
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> Paul
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>
> P.S. I'd like to get a central photo sharing site put together, I
> was thinking maybe Picasa. Does anyone have any recommendations?
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

7742. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 19:01:52 UTC
From: wb8elk@aol.com
Topic: 7726 Message: 7742
Attachments: 1 described; binary payloads are missing from this source WARC

As to the Field Day superlaunch....I flew a simplex repeater for 2 of the past 3 Field Days and we had a number of Field Day sites talking through the repeater across the Southeast and lower Midwest...some were 600 miles or more apart. This would be something that we could propose to the ARRL as a special contact event during Field Day, if nothing more than QSL cards. Allowing remote FD sites to talk to each other via the balloon repeater is after all, what Field Day is supposed to be about (that and the great cookouts).

- Bill WB8ELk

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Sent: Sun, Jul 25, 2010 11:42 am
Subject: Re: [GPSL] Thank you all!

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- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Sat, Jul 24, 2010 11:57 pm
Subject: Re: [GPSL] Thank you all!

Right now we have Pella, IA for 2011 and Omaha, NE for 2012. Nothing is planned for 2013 at this time. I'm amazed that we have GPSL planned this far out. Normally, we wouldn't have decided next year yet.

That being said, 2012 is the 25th anniversary of modern ARHAB. We should make 2012 a special year. I'd like to see a year book with pictures and data from ev ery flight that year.

I'd also like to see us start a FDSL. It wouldn't be located in a singe location like GPSL. But we could coordinate our launches and great special QSL cards for everyone making a contact through a balloon on FD. It would be nice if we could talk to someone ar ARRL about this being a category they recognize. But if they don't want to, then sending out QSL cards that rode into near space may attract enough attention to makes some contacts.

Paul

On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes <zclobes@...> wrote:

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

I will try to get a survey put out in the next few days to solicit some input for future editions.

And speaking of the future, I'm not sure where it's headed over the next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course I'd love to have you all back any time... (actually 2013 is probably bad for me. Is it sad to be planning your life that far out?). I'm going to defer those questions to Paul for now.

Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

--
Onwards and Upwards,
Paul

7743. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 19:08:14 UTC
From: Zack Clobes
Topic: 7726 Message: 7743
Attachments: 1 described; binary payloads are missing from this source WARC

The repeater contacts don't count towards the Field Day points. If an exception could be made for such a special event, then I think there would be a lot more interest.

It seems like a reasonable request, but it should probably be taken up with the ARRL ASAP. I don't see them yet, but I'd image that FD rules will probably be posted by the end of the year.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, Jul 25, 2010 at 2:01 PM, <wb8elk@...> wrote:

> As to the Field Day superlaunch....I flew a simplex repeater for 2 of the
> past 3 Field Days and we had a number of Field Day sites talking through the
> repeater across the Southeast and lower Midwest...some were 600 miles or
> more apart. This would be something that we could propose to the ARRL as a
> special contact event during Field Day, if nothing more than QSL cards.
> Allowing remote FD sites to talk to each other via the balloon repeater is
> after all, what Field Day is supposed to be about (that and the great
> cookouts).
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> - Bill WB8ELk
>
>
>
> -----Original Message-----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Cc: wb8elk@...
> Sent: Sun, Jul 25, 2010 11:42 am
> Subject: Re: [GPSL] Thank you all!
>
> I love the yearbook Idea.
>
> Would it be just the GPSL launches, for that year, or all launches from
> everywhere?
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> Field Day is a no go for me. while yes I may be one of the original
> groups, only being a year behind Bill on doing these flights, I have yet
> been able to go to a GPSL. A few close friends know why. But even if it
> was possible, every Field Day since 1975 I have actually done "Field Day"
> ya know the whole 99% HF transmitting thing. it's a Big thing around here.
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7744. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 22:21:57 UTC
From: L. Paul Verhage
Topic: 7726 Message: 7744
Attachments: 1 described; binary payloads are missing from this source WARC

Not only should we contact ARRL ASAP, someone who belongs to ARRL should contact them. I'm not a member, so I don't think I'd be a good person to contact them.

Is someone in the ARHAB community have a high level contact in ARRL?

As I was saying, if getting ARRL onboard fails, we should be prepared to give FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from near space. We may not be a part of field day, but we have cookies.

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7745. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 22:44:42 UTC
From: Joe
Topic: 7726 Message: 7745
Attachments: 2 described; binary payloads are missing from this source WARC

How about AMSAT?

In the beginning 20 years ago, AMSAT was very supportive even to the point of being enthusiastic of our projects.

They commonly thought of our flights as low altitude temporary OSCARS!

Maybe they may have some clout?

Field Day contacts through "Real" Oscar Satellites do count for points. Maybe with AMSATS support someone from AMSAT could contact the League and get contacts made through a balloon to count as a contact with a regular satellite.

Sadly I am not a member of either group so I'm not the one to spearhead this for sure.

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The Original Rolling Ball Clock
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7746. N9QGS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-24 14:34:56 UTC
From: Roger Hammond
Topic: 7746 Message: 7746

Perfect copy of the Domino EX from BASE 47 here in Grand Island, NE with an omni.

Rog KC0MWM

7747. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 23:12:34 UTC
From: Joe
Topic: 7726 Message: 7747
Attachments: 3 described; binary payloads are missing from this source WARC

I just wish the guy from PE land would let us fly one of his
transponders, now that would be awesome!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/25/2010 5:59 PM, L. Paul Verhage wrote:
> I've tried working with AMSAT in the past and nothing ever happened.
> My understanding is that Phase 3D takes up so much of their resources
> that balloons are off their radar.
> I agree though, our stuff are low altitude AMSATs. They should be a
> good way to teach satellite technology.
> Paul
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> <mailto:nss@...>> wrote:
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> In the beginning 20 years ago, AMSAT was very supportive even to
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>> GPSL. A few close friends know why. But even if it was
>> possible, every Field Day since 1975 I have actually done
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>> On 7/25/2010 3:21 AM, wb8elk@...

>> <mailto:wb8elk@...> wrote:
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've
>>> flown during Field Day the past 3 years now and it's a
>>> blast and gets a lot of the local hams and public
>>> interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
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>>> -----Original Message-----
>>> From: L. Paul Verhage <nearsys@...>
>>> <mailto:nearsys@...>
>>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
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>>> Right now we have Pella, IA for 2011 and Omaha, NE for
>>> 2012. Nothing is planned for 2013 at this time. I'm
>>> amazed that we have GPSL planned this far out.
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>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes
>>> <zclobes@... <mailto:zclobes@...>> wrote:
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>>> Honestly, hosting is a lot of hard work, but I
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>>> love to have you all back *any* time... (actually
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>>> planning your life that far out?). I'm going to
>>> defer those questions to Paul for now.
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>>> Please have a safe trip home, and keep an eye on the
>>> weather. I don't anticipate anything too severe
>>> tonight, but keep your eyes open.
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>>> Project: Traveler
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>>> P.S. I'd like to get a central photo sharing site
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7748. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 00:30:43 UTC
From: HarryM
Topic: 7726 Message: 7748

I would like to extend my thanks to Zack & Crys for putting together a great GPSL.
It was very enjoyable, entertaining and informative. Thanks again!

Thanks to those who had a hand in getting prizes and magazines.

Thanks to all the attendies for their support of GPSL and for your willingness to share and help others where needed.

I would also like to thank EOSS for their help at the launch site to whom ever need an extra hand or a word of encouragement.

73 Harry KC5TRB
(ORB)

7749. RE: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 02:00:30 UTC
From: Nick Hanks
Topic: 7726 Message: 7749

Zack,

On behalf of EOSS let me thank you and Crys for an outstanding GPSL. The EOSS members who were there thought the presentations were educational, had a great flight, enjoyed the group meals and the thought the organization and planning were superb. And the food was exceptional -- you convinced all of us of the quality of the BBQ place you used, and the snacks in the afternoon were all most sinful they were so good. We learned a bunch during the pre-flight preparations at the airport too.

Thank you very much.

Sorry we couldn't find the payload for the group from Texas.

Think you would have no problem at all convincing EOSS to return to Hutch anytime for another GPSL.

73,

Nick

EOSS GPSL Coordinator.

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Saturday, July 24, 2010 20:54
To: Group GPSL
Subject: [GPSL] Thank you all!

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

I will try to get a survey put out in the next few days to solicit some input for future editions.

And speaking of the future, I'm not sure where it's headed over the next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course I'd love to have you all back any time... (actually 2013 is probably bad for me. Is it sad to be planning your life that far out?). I'm going to defer those questions to Paul for now.

Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler <http://www.projecttraveler.org> .org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

7750. Thanks and looking ahead to 2012

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 02:18:48 UTC
From: BASE
Topic: 7750 Message: 7750

I also want to thank everyone for a great time at the 2010 GPSL. I appreciate that you've always accepted me, even though I'm a nominal ham. Saturday was my first flight that I left the 900 MHz system on the ground and stayed exclusively in the licensed 2-meter band.

As for 2012, I'd like to suggest that we celebrate throughout the year, and encourage input from as many flights as we can, including the growing academic community.

I'd also like to propose a second Superlaunch event on Saturday, August 11,2012 from a site as close as practical to Bill's first launch site near Findlay, Ohio on August 15, 1987. It would be great to have more participants than were able to make the 20th anniversary event.

73,
Howard, KC9QBN

7751. Re: [GPSL] Thanks and looking ahead to 2012

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 03:21:34 UTC
From: wb8elk@aol.com
Topic: 7750 Message: 7751

Hi Howard and all....I do plan a 25th anniversary celebration superlaunch like I did for the 20th from the Findlay, Ohio area...probably on August 11th 2012.

- Bill WB8ELK

-----Original Message-----
From: BASE <basedepauw@...>
To: Great Plains Superlaunch <gpsl@yahoogroups.com>
Sent: Sun, Jul 25, 2010 9:18 pm
Subject: [GPSL] Thanks and looking ahead to 2012

I also want to thank everyone for a great time at the 2010 GPSL. I appreciate that you've always accepted me, even though I'm a nominal ham. Saturday was my first flight that I left the 900 MHz system on the ground and stayed exclusively in the licensed 2-meter band.

As for 2012, I'd like to suggest that we celebrate throughout the year, and encourage input from as many flights as we can, including the growing academic community.

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Howard, KC9QBN

7752. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 03:55:24 UTC
From: dvpatterson@comcast.net
Topic: 7726 Message: 7752

Zack:

Here's another thanks for setting up the webEx option for those of us who couldn't make it. It was outstanding to be able to "attend" this year! Hopefully I'll be able to make it back to GPSL in person sooner rather than later... we'll see how schedules work out. For now, though, the extra effort is greatly appreciated.

-David

----- Original Message -----
From: "Zack Clobes " < zclobes @ gmail .com>
To: "Group GPSL " < GPSL @ yahoogroups .com>
Sent: Saturday, July 24, 2010 8:54:08 PM
Subject: [GPSL] Thank you all!

Thank you all very much for attending, the conversations, the kind words, and the comradery . Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

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Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes , W0ZC
Project: Traveler
www . projecttraveler .org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa . Does anyone have any recommendations?

7753. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 13:29:51 UTC
From: W5BL@sbcglobal.net
Topic: 7726 Message: 7753
Attachments: 2 described; binary payloads are missing from this source WARC

In addition to my ties to ARRL, I am a former AMSAT president and still maintain contact with most of the officers and BoD memebrs. Here again I will be glad to champion discussions with AMSAT as they conduct their own FD activity along with the ARRL event. I would suggest that we start with the ARRL and then after we see what their response is we can contact AMSAT for further support.

Doug

--- On Sun, 7/25/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Thank you all!
To: GPSL@yahoogroups.com
Cc: "L. Paul Verhage" <nearsys@...>
Date: Sunday, July 25, 2010, 5:44 PM

How about AMSAT?

In the beginning 20 years ago, AMSAT was very supportive even to the point of being enthusiastic of our projects.

They commonly thought of our flights as low altitude temporary OSCARS!

Maybe they may have some clout?

Field Day contacts through "Real" Oscar Satellites do count for points. Maybe with AMSATS support someone from AMSAT could contact the League and get contacts made through a balloon to count as a contact with a regular satellite.

Sadly I am not a member of either group so I'm not the one to spearhead this for sure.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
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On 7/25/2010 5:21 PM, L. Paul Verhage wrote:

Not only should we contact ARRL ASAP, someone who belongs to ARRL should contact them. I'm not a member, so I don't think I'd be a good person to contact them.

Is someone in the ARHAB community have a high level contact in ARRL?

As I was saying, if getting ARRL onboard fails, we should be prepared to give FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from near space. We may not be a part of field day, but we have cookies.

Paul

On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes <zclobes@...> wrote:

The repeater contacts don't count towards the Field Day points. If an exception could be made for such a special event, then I think there would be a lot more interest.

It seems like a reasonable request, but it should probably be taken up with the ARRL ASAP. I don't see them yet, but I'd image that FD rules will probably be posted by the end of the year.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, Jul 25, 2010 at 2:01 PM, <wb8elk@...> wrote:

As to the Field Day superlaunch....I flew a simplex repeater for 2 of the past 3 Field Days and we had a number of Field Day sites talking through the repeater across the Southeast and lower Midwest...some were 600 miles or more apart. This would be something that we could propose to the ARRL as a special contact event during Field Day, if nothing more than QSL cards. Allowing remote FD sites to talk to each other via the balloon repeater is after all, what Field Day is supposed to be about (that and the great cookouts).

- Bill WB8ELk

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Sent: Sun, Jul 25, 2010 11:42 am
Subject: Re: [GPSL] Thank you all!

I love the yearbook Idea.

Would it be just the GPSL launches, for that year, or all launches from everywhere?

Field Day is a no go for me. while yes I may be one of the original groups, only being a year behind Bill on doing these flights, I have yet been able to go to a GPSL. A few close friends know why. But even if it was possible, every Field Day since 1975 I have actually done "Field Day" ya know the whole 99% HF transmitting thing. it's a Big thing around here. so i'm tied up for sure on that day and all of my chase and recovery teams are also tied up on that weekend. So as far as a FD day launck NSS won't be able to.

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The 25th Anniversary Yearbook is a good idea.

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From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
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P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

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Onwards and Upwards,
Paul

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7754. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 14:38:07 UTC
From: Joe
Topic: 7726 Message: 7754
Attachments: 3 described; binary payloads are missing from this source WARC

I nominate Doug to push for us,

Anyone second?

Joe WB9SBD

The Original Rolling Ball Clock
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On 7/26/2010 8:29 AM, W5BL@... wrote:
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>> Paul
>

7755. File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 13:33:55 UTC
From: Zack Clobes
Topic: 7755 Message: 7755

I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7756. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 15:19:33 UTC
From: Joe
Topic: 7755 Message: 7756
Attachments: 1 described; binary payloads are missing from this source WARC

Wow they changed, it was a LOT more than that before. Like 10 gigs or
something like that oh well,,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/26/2010 8:33 AM, Zack Clobes wrote:
>
>
> I'm still looking for ideas on the file upload... I checked into the
> GPSL Yahoo Group server, and unless I'm missing something, we only
> have 100MB of space there. I have almost 500MB of PowerPoints and
> video. Stripping out the video still leaves very little room for photos.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
>
>

7757. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 16:11:14 UTC
From: Jerry Gable
Topic: 7755 Message: 7757

You might want to look at dropbox.com.

They have a 2GB free account and let you set options to share folders. I haven't tried it but I know a lot of people that really like it.

_____
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Mon, July 26, 2010 6:33:55 AM
Subject: [GPSL] File Upload Area

I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler .org

7758. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 16:26:05 UTC
From: Mark Conner
Topic: 7755 Message: 7758

You might want to take a peek at Google Docs since you're a GMail user already. Only 1 Gb free storage but upgradeable (20 Gb for $5/yr, shareable between other Google storage services). I've only started playing with it, so I don't know if this will require other users to have a Google account to browse them or not.

MS SkyDrive does require a MS Live account signin for access but also has a few Gb of free storage.

- Mark

On Mon, Jul 26, 2010 at 08:33, Zack Clobes <zclobes@...> wrote:

>
>
> I'm still looking for ideas on the file upload... I checked into the GPSL
> Yahoo Group server, and unless I'm missing something, we only have 100MB of
> space there. I have almost 500MB of PowerPoints and video. Stripping out
> the video still leaves very little room for photos.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>

7759. Thank you all from ARBONET!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 16:02:50 UTC
From: Michael Willett
Topic: 7726 Message: 7759

Louise and I would like to voice a sincere Thank You! to Zack and Crys and all for all the hard work put into GPSL 2010. This was my second GPSL and Louise's first, and both of us were sincerely appreciative of the major efforts and hospitality for this event! I don't think it could go much better, we had a great time and I was again impressed with the great people involved in this hobby!

Thank you for everything!

--Michael K5NOT
--Louise K5RAU

7760. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 17:13:17 UTC
From: L. Paul Verhage
Topic: 7726 Message: 7760
Attachments: 3 described; binary payloads are missing from this source WARC

That sounds good to me.

Paul

On Mon, Jul 26, 2010 at 9:38 AM, Joe <nss@...> wrote:

> I nominate Doug to push for us,
>
> Anyone second?
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/26/2010 8:29 AM, W5BL@... wrote:
>
> In addition to my ties to ARRL, I am a former AMSAT president and still
> maintain contact with most of the officers and BoD memebrs. Here again I
> will be glad to champion discussions with AMSAT as they conduct their own FD
> activity along with the ARRL event. I would suggest that we start with the
> ARRL and then after we see what their response is we can contact AMSAT for
> further support.
>
> Doug
>
> --- On *Sun, 7/25/10, Joe <nss@...> <nss@...>* wrote:
>
>
>
> From: Joe <nss@...> <nss@...>
> Subject: Re: [GPSL] Thank you all!
> To: GPSL@yahoogroups.com
> Cc: "L. Paul Verhage" <nearsys@...> <nearsys@...>
> Date: Sunday, July 25, 2010, 5:44 PM
>
> How about AMSAT?
>
> In the beginning 20 years ago, AMSAT was very supportive even to the point
> of being enthusiastic of our projects.
>
> They commonly thought of our flights as low altitude temporary OSCARS!
>

> Maybe they may have some clout?
>
> Field Day contacts through "Real" Oscar Satellites do count for points.
> Maybe with AMSATS support someone from AMSAT could contact the League and
> get contacts made through a balloon to count as a contact with a regular
> satellite.
>
> Sadly I am not a member of either group so I'm not the one to spearhead
> this for sure.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/25/2010 5:21 PM, L. Paul Verhage wrote:
>
> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
> contact them. I'm not a member, so I don't think I'd be a good person to
> contact them.
>
> Is someone in the ARHAB community have a high level contact in ARRL?
>
> As I was saying, if getting ARRL onboard fails, we should be prepared to
> give FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV
> from near space. We may not be a part of field day, but we have cookies.
>
> Paul
>
> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes
<zclobes@...<http://us.mc814.mail.yahoo.com/mc/compose?to=zclobes@...>
> > wrote:
>
>>
>>
>> The repeater contacts don't count towards the Field Day points. If an
>> exception could be made for such a special event, then I think there would
>> be a lot more interest.
>>
>> It seems like a reasonable request, but it should probably be taken up
>> with the ARRL ASAP. I don't see them yet, but I'd image that FD rules will
>> probably be posted by the end of the year.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
>>

>>
>> On Sun, Jul 25, 2010 at 2:01 PM,
<wb8elk@...<http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>
>> > wrote:
>>
>>> As to the Field Day superlaunch....I flew a simplex repeater for 2 of the
>>> past 3 Field Days and we had a number of Field Day sites talking through the
>>> repeater across the Southeast and lower Midwest...some were 600 miles or
>>> more apart. This would be something that we could propose to the ARRL as a
>>> special contact event during Field Day, if nothing more than QSL cards.
>>> Allowing remote FD sites to talk to each other via the balloon repeater is
>>> after all, what Field Day is supposed to be about (that and the great
>>> cookouts).
>>>
>>> - Bill WB8ELk
>>>
>>>
>>>
>>> -----Original Message-----
>>> From: Joe <nss@...<http://us.mc814.mail.yahoo.com/mc/compose?to=nss@...>
>>> >
>>> To:
GPSL@yahoogroups.com<http://us.mc814.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>>> Cc: wb8elk@...<http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>
>>> Sent: Sun, Jul 25, 2010 11:42 am
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> I love the yearbook Idea.
>>>
>>> Would it be just the GPSL launches, for that year, or all launches from
>>> everywhere?
>>>
>>> Field Day is a no go for me. while yes I may be one of the original
>>> groups, only being a year behind Bill on doing these flights, I have yet
>>> been able to go to a GPSL. A few close friends know why. But even if it
>>> was possible, every Field Day since 1975 I have actually done "Field Day"
>>> ya know the whole 99% HF transmitting thing. it's a Big thing around here.
>>> so i'm tied up for sure on that day and all of my chase and recovery teams
>>> are also tied up on that weekend. So as far as a FD day launck NSS won't
>>> be able to.
>>>
>>> Now as Paul says
>>>
>>> " But we could coordinate our launches and great special QSL cards for
>>> everyone making a contact through a balloon on FD. It would be nice if we
>>> could talk to someone ar ARRL about this being a category they recognize.
>>> But if they don't want to, then sending out QSL cards that rode into near
>>> space may attract enough attention to makes some contacts."
>>>
>>> Make some contacts is not a problem.. Well at least on our flights that

>>> we open for general public use Like cross band repeaters.
>>>
>>> Our last cross band repeater flight 238 QSO's we made through the
>>> balloon. Thats not bad. A QSO rate than many contesters would love to have
>>> he he he..
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 7/25/2010 3:21 AM,
wb8elk@...<http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>wrote:
>>>
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown during Field
>>> Day the past 3 years now and it's a blast and gets a lot of the local hams
>>> and public interested.
>>>
>>> The 25th Anniversary Yearbook is a good idea.
>>>
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: L. Paul Verhage
<nearsys@...><http://us.mc814.mail.yahoo.com/mc/compose?to=nearsys@...>
>>> To:
GPSL@yahoogroups.com<http://us.mc814.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>>
>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012. Nothing
>>> is planned for 2013 at this time. I'm amazed that we have GPSL planned this
>>> far out. Normally, we wouldn't have decided next year yet.
>>>
>>> That being said, 2012 is the 25th anniversary of modern ARHAB. We should
>>> make 2012 a special year. I'd like to see a year book with pictures and
>>> data from ev ery flight that year.
>>>
>>> I'd also like to see us start a FDSL. It wouldn't be located in a singe
>>> location like GPSL. But we could coordinate our launches and great special
>>> QSL cards for everyone making a contact through a balloon on FD. It would
>>> be nice if we could talk to someone ar ARRL about this being a category they
>>> recognize. But if they don't want to, then sending out QSL cards that rode
>>> into near space may attract enough attention to makes some contacts.
>>>
>>> Paul

>>>
>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes
<zclobes@...<http://us.mc814.mail.yahoo.com/mc/compose?to=zclobes@...>
>>> > wrote:
>>>
>>>>
>>>>
>>>> Thank you all very much for attending, the conversations, the kind
>>>> words, and the comradery. Crys and I really enjoy this - she said it feels
>>>> like a family reunion, and I have to agree. Honestly, hosting is a lot of
>>>> hard work, but I thoroughly enjoy it and wouldn't change a thing.
>>>>
>>>>
>>>> I will try to get a survey put out in the next few days to solicit some
>>>> input for future editions.
>>>>
>>>> And speaking of the future, I'm not sure where it's headed over the next
>>>> couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and of course
>>>> I'd love to have you all back *any* time... (actually 2013 is probably
>>>> bad for me. Is it sad to be planning your life that far out?). I'm going
>>>> to defer those questions to Paul for now.
>>>>
>>>>
>>>> Please have a safe trip home, and keep an eye on the weather. I don't
>>>> anticipate anything too severe tonight, but keep your eyes open.
>>>>
>>>> Zack Clobes, W0ZC
>>>> Project: Traveler
>>>> www.projecttraveler.org
>>>>
>>>>
>>>> P.S. I'd like to get a central photo sharing site put together, I was
>>>> thinking maybe Picasa. Does anyone have any recommendations?
>>>>
>>>>
>>>>
>>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>
>>
>>
>
>
> --

> Onwards and Upwards,
> Paul
>
>

--
Onwards and Upwards,
Paul

7761. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 15:23:48 UTC
From: Keith Kaiser
Topic: 7755 Message: 7761

We can post anything you guys want on the Superlaunch.org web site. This has always been available throughout the years.

On Jul 26, 2010, at 8:33 AM, Zack Clobes wrote:

> I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>

7762. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 18:35:48 UTC
From: wb8elk@aol.com
Topic: 7755 Message: 7762

Zack...how about Dropbox....it's a free service up to 2 to 5 GB...can't remember which. If you put stuff in the public folder you can share that with everyone.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Mon, Jul 26, 2010 8:33 am
Subject: [GPSL] File Upload Area

I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7763. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 18:25:28 UTC
From: Zack Clobes
Topic: 7755 Message: 7763

Would you want to put some sort of photo gallery script on the server so
that the individual can upload photos themselves? Otherwise, I'm afraid
that you're going to be overwhelmed with pictures, plus we'll run into
mailbox size issues.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Jul 26, 2010 at 10:23 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> We can post anything you guys want on the Superlaunch.org web site. This
> has always been available throughout the years.
>
>
> On Jul 26, 2010, at 8:33 AM, Zack Clobes wrote:
>
>
>
> I'm still looking for ideas on the file upload... I checked into the GPSL
> Yahoo Group server, and unless I'm missing something, we only have 100MB of
> space there. I have almost 500MB of PowerPoints and video. Stripping out
> the video still leaves very little room for photos.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>

7764. ARBONET Package at GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 17:37:35 UTC
From: Michael Willett
Topic: 7764 Message: 7764

Hello all;

Several people thought we flew the light-weight, envelope control package I talked about in the presentation, and no, that one did not go up, we flew a simple camera package for GPSL-2010.

In my desire to have something quick for Louise and I to fly at GPSL, I simply put a Microtrack-300 and a video camera in a package and that is what we flew. I did not have time to get a second beacon going. The Microtrack-300 was extensively tested the week before, in my office, hanging from the basket ball hoop outside, as well as put in the freezer at 0F over-night without missing a beat. The batteries are 19AH Lithium Thionyl Chloride Batteries, (yes 19AH!) so they are good to -60F and I have never seen a temp below 0F inside my packages in flight, so I think the batteries were AOK. No doubt, if the Tracker decided to start up again, it is still putting out packets now and will for a week or more.

I initially thought that somehow I mis-programmed the Microtrack-300 for smart beaconing, but the data history always occurs in the 18th second of each minute, so the smart beaconing thought is not true. I also thought a stronger signal from a few other packages with extra telemetry were stepping on us, but I don't think that was true either. Basically, the Microtrack inexplicably stopped working at times, even though I had performed fairly thorough testing. Frustrating... :)

Saturday several people graciously assisted our small team get in the air and later in searching for the package, and we --Greatly-- appreciated their help. Losing a payload is a bummer, especially when you do it twice in a row at GPSL.... grovel, grovel... :) Saturday night I ran dozens of simulations trying to figure out worst case for a short flight from the data points were we had 99,783 ft, 40Kft, 33Kft, 30Kft, 14Kft and worst case for a long flight and tried to cover those areas Sunday morning until noon. Mark and Carol searched early Sunday morning before heading home, and Louise and I also scoured for four more hours before heading back to Texas. We came up empty. But my simple simulations did not show the area Zack is now proposing. We hit almost every road for about 50 square miles north and south of Hwy 56 and hated to give up!

Sincere Thank You to all that assisted us!

--Michael K5NOT

7765. ORB-26 Recap

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 00:46:50 UTC
From: HarryM
Topic: 7765 Message: 7765

ORB-26 Flight Recap

ORB-26 was launched from Hutchinson Municipal Airport at 9:02 am CDT. Ascent was approximately 1000 fpm and reached an altitude of 74,466 ft. After burst the cutdown was initiated to release the balloon remnants and the payloads descended under a full chute to a landing at 10:31 am CDT. Landing site was 19.45 mi. NNE of the launch site (3816.04/-9737.02) and 7.5 mi. SSE of Mcpherson, Kansas. We were in position about 200 yards from landing and saw the chute and payloads make their final descent into a harvested wheat field.

The digital still camera captured 48 pictures. One of which was of another balloon and was close enough to see its chute and payloads.

The digital video camera got no video. I did not push the right sequence of buttons to start the recorder.

73 Harry KC5TRB

7766. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 20:58:15 UTC
From: Jerry Gable
Topic: 7755 Message: 7766

Dropbox has a 2GB limit on the free account. Here is an image I stuck in my public folder

http://dl.dropbox.com/u/9446302/SampleImage.JPG
After you install their tools you just drag and drop anything into the folder like it is on your machine.

_____
From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Mon, July 26, 2010 11:35:48 AM
Subject: Re: [GPSL] File Upload Area

Zack...how about Dropbox....it' s a free service up to 2 to 5 GB...can't remember which. If you put stuff in the public folder you can share that with everyone.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@gmail. com>
To: Group GPSL <GPSL@yahoogroups. com>
Sent: Mon, Jul 26, 2010 8:33 am
Subject: [GPSL] File Upload Area

I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler .org

7767. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 00:59:11 UTC
From: Mike Manes
Topic: 7726 Message: 7767

I just passed the FDSL idea on to our Colo SM, Jeff Ryan K0RM - he may
extend it up to the RM Region Dir, Brian Mileshosky.
73 de Mike W5VSI

On 7/26/2010 07:29, W5BL@... wrote:
> In addition to my ties to ARRL, I am a former AMSAT president and still
> maintain contact with most of the officers and BoD memebrs. Here again I will
> be glad to champion discussions with AMSAT as they conduct their own FD
> activity along with the ARRL event. I would suggest that we start with the
> ARRL and then after we see what their response is we can contact AMSAT for
> further support.
> Doug
>
> --- On *Sun, 7/25/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Thank you all!
> To: GPSL@yahoogroups.com
> Cc: "L. Paul Verhage" <nearsys@...>
> Date: Sunday, July 25, 2010, 5:44 PM
>
> How about AMSAT?
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> In the beginning 20 years ago, AMSAT was very supportive even to the point
> of being enthusiastic of our projects.
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> They commonly thought of our flights as low altitude temporary OSCARS!
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> Maybe they may have some clout?
>
> Field Day contacts through "Real" Oscar Satellites do count for points.
> Maybe with AMSATS support someone from AMSAT could contact the League and
> get contacts made through a balloon to count as a contact with a regular
> satellite.
>
> Sadly I am not a member of either group so I'm not the one to spearhead
> this for sure.
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> Joe WB9SBD
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> The Original Rolling Ball Clock
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>
> On 7/25/2010 5:21 PM, L. Paul Verhage wrote:
>> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
>> contact them. I'm not a member, so I don't think I'd be a good person to
>> contact them.
>> Is someone in the ARHAB community have a high level contact in ARRL?
>> As I was saying, if getting ARRL onboard fails, we should be prepared to
>> give FD stations a reason to pay attention. Like QSL cards, SSTV, and
>> ATV from near space. We may not be a part of field day, but we have cookies.
>> Paul
>>
>> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes <zclobes@...
>> <http://us.mc814.mail.yahoo.com/mc/compose?to=zclobes@...>> wrote:
>>
>>
>>
>> The repeater contacts don't count towards the Field Day points. If
>> an exception could be made for such a special event, then I think
>> there would be a lot more interest.
>>
>> It seems like a reasonable request, but it should probably be taken
>> up with the ARRL ASAP. I don't see them yet, but I'd image that FD
>> rules will probably be posted by the end of the year.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org <http://www.projecttraveler.org/>
>>
>>
>> On Sun, Jul 25, 2010 at 2:01 PM, <wb8elk@...
>> <http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>> wrote:
>>
>> As to the Field Day superlaunch....I flew a simplex repeater for
>> 2 of the past 3 Field Days and we had a number of Field Day
>> sites talking through the repeater across the Southeast and
>> lower Midwest...some were 600 miles or more apart. This would be
>> something that we could propose to the ARRL as a special contact
>> event during Field Day, if nothing more than QSL cards. Allowing
>> remote FD sites to talk to each other via the balloon repeater
>> is after all, what Field Day is supposed to be about (that and
>> the great cookouts).
>> - Bill WB8ELk
>>
>>
>>
>> -----Original Message-----
>> From: Joe <nss@...
>> <http://us.mc814.mail.yahoo.com/mc/compose?to=nss@...>>
>> To: GPSL@yahoogroups.com

>> <http://us.mc814.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>> Cc: wb8elk@...
>> <http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>
>> Sent: Sun, Jul 25, 2010 11:42 am
>> Subject: Re: [GPSL] Thank you all!
>>
>> I love the yearbook Idea.
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>> Would it be just the GPSL launches, for that year, or all
>> launches from everywhere?
>>
>> Field Day is a no go for me. while yes I may be one of the
>> original groups, only being a year behind Bill on doing these
>> flights, I have yet been able to go to a GPSL. A few close
>> friends know why. But even if it was possible, every Field Day
>> since 1975 I have actually done "Field Day" ya know the whole
>> 99% HF transmitting thing. it's a Big thing around here. so i'm
>> tied up for sure on that day and all of my chase and recovery
>> teams are also tied up on that weekend. So as far as a FD day
>> launck NSS won't be able to.
>>
>> Now as Paul says
>>
>> " But we could coordinate our launches and great special QSL
>> cards for everyone making a contact through a balloon on FD. It
>> would be nice if we could talk to someone ar ARRL about this
>> being a category they recognize. But if they don't want to, then
>> sending out QSL cards that rode into near space may attract
>> enough attention to makes some contacts."
>>
>> Make some contacts is not a problem.. Well at least on our
>> flights that we open for general public use Like cross band
>> repeaters.
>>
>> Our last cross band repeater flight 238 QSO's we made through
>> the balloon. Thats not bad. A QSO rate than many contesters
>> would love to have he he he..
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>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 7/25/2010 3:21 AM, wb8elk@...
>> <http://us.mc814.mail.yahoo.com/mc/compose?to=wb8elk@...>
>> wrote:
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown
>>> during Field Day the past 3 years now and it's a blast and gets

>>> a lot of the local hams and public interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: L. Paul Verhage <nearsys@...>
>>> <http://us.mc814.mail.yahoo.com/mc/compose?to=nearsys@...>
>>> To: GPSL@yahoogroups.com
>>> <http://us.mc814.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
>>> Nothing is planned for 2013 at this time. I'm amazed that we
>>> have GPSL planned this far out. Normally, we wouldn't have
>>> decided next year yet.
>>> That being said, 2012 is the 25th anniversary of modern ARHAB.
>>> We should make 2012 a special year. I'd like to see a year book
>>> with pictures and data from ev ery flight that year.
>>> I'd also like to see us start a FDSL. It wouldn't be located in
>>> a singe location like GPSL. But we could coordinate our
>>> launches and great special QSL cards for everyone making a
>>> contact through a balloon on FD. It would be nice if we could
>>> talk to someone ar ARRL about this being a category they
>>> recognize. But if they don't want to, then sending out QSL
>>> cards that rode into near space may attract enough attention to
>>> makes some contacts.
>>> Paul
>>>
>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes <zclobes@...
>>> <http://us.mc814.mail.yahoo.com/mc/compose?to=zclobes@...>>
>>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the conversations,
>>> the kind words, and the comradery. Crys and I really enjoy
>>> this - she said it feels like a family reunion, and I have
>>> to agree. Honestly, hosting is a lot of hard work, but I
>>> thoroughly enjoy it and wouldn't change a thing.
>>>
>>>
>>> I will try to get a survey put out in the next few days to
>>> solicit some input for future editions.
>>>
>>> And speaking of the future, I'm not sure where it's headed
>>> over the next couple of years. I've heard Omaha, Pella
>>> Iowa, Pueblo (EOSS), and of course I'd love to have you all
>>> back *any* time... (actually 2013 is probably bad for me.

>>> Is it sad to be planning your life that far out?). I'm
>>> going to defer those questions to Paul for now.
>>>
>>>
>>> Please have a safe trip home, and keep an eye on the
>>> weather. I don't anticipate anything too severe tonight,
>>> but keep your eyes open.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org <http://www.projecttraveler.org/>
>>>
>>>
>>> P.S. I'd like to get a central photo sharing site put
>>> together, I was thinking maybe Picasa. Does anyone have any
>>> recommendations?
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>
>>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7768. Re: File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 01:45:34 UTC
From: ronald74
Topic: 7755 Message: 7768

I have some photos for immediate viewing at http://gallery.me.com/n9qgs#100203

Enjoy you may download them if you wish... Ron

--- In GPSL@yahoogroups.com, Zack Clobes <zclobes@...> wrote:
>
> Would you want to put some sort of photo gallery script on the server so
> that the individual can upload photos themselves? Otherwise, I'm afraid
> that you're going to be overwhelmed with pictures, plus we'll run into
> mailbox size issues.
>

7769. Re: [GPSL] File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 19:12:26 UTC
From: Keith Kaiser
Topic: 7755 Message: 7769

Yea, I need to work up something. No time right now but asap.

On Jul 26, 2010, at 1:25 PM, Zack Clobes wrote:

> Would you want to put some sort of photo gallery script on the server so that the individual can upload photos themselves? Otherwise, I'm afraid that you're going to be overwhelmed with pictures, plus we'll run into mailbox size issues.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Mon, Jul 26, 2010 at 10:23 AM, Keith Kaiser <wa0tjt@...> wrote:
>
> We can post anything you guys want on the Superlaunch.org web site. This has always been available throughout the years.
>
>
>
> On Jul 26, 2010, at 8:33 AM, Zack Clobes wrote:
>
>>
>> I'm still looking for ideas on the file upload... I checked into the GPSL Yahoo Group server, and unless I'm missing something, we only have 100MB of space there. I have almost 500MB of PowerPoints and video. Stripping out the video still leaves very little room for photos.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
>>
>
>
>
>

7770. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 03:34:32 UTC
From: ccccrnr@aim.com
Topic: 7726 Message: 7770
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks to all at GPSL 2010 for making it a great time from all of us at RoboMO - Jacob, Jerry, Libby, Nick, Mike, and myself

It was great!!

Our groups 1st launch had highest packet on the way up of 62,457 followed by 6 straight packets of "NO FIX" data and our 1st packet on the way down (15 minutes later) was 65,181 our highest good packet...Near Space
We crashed in a horse and mule field ~ 20 or more miles from from our launch site.

Thanks to All and hope to see you in the future,
Carlton Corbitt - KI4NHK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Sun, Jul 25, 2010 9:21 am
Subject: Re: [GPSL] Thank you all!

You can go to www.projecttraveler.org and click on the Photo Gallery to see one in Picasa.

Zack

On Sun, Jul 25, 2010 at 11:11 AM, Joe <nss@...> wrote:

Really on the casual browsing?

I found it the opposite to be true.

Now that I'm on DSL it's Ok, but when i was on Dialup, if someoneever sent me to a Picassa page or i should say a link to one, I'd justnever ever go because the bandwidth required to look around was soobad that nothing was ever seen. At least with the yahoo group formateverything was small thumbnails and if one image looked interesting, then you could bother to download the large size, but you diddn't haveto do them all.

Unless picassa is different now and a dialup person isn't killed likeit used to be.

anyone send me a new Picassa site?

Joe WB9SBD

The Original Rolling BallClock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/25/2010 10:42 AM, Mark Conner wrote:

Picasa is great for integrating albums into your own websites. It's also a lot better for casual browsing. Just make sure the albumis public so no Google signin is required.

As much as I like my new Droid, there's still no substitute for areal keyboard (home ISP still down).

Mark

On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...>wrote:

Thank you all very much for attending, the conversations, the kindwords, and the comradery. Crys and I really enjoy this - she said itfeels like a family reunion, and I have to agree. Honestly, hosting isa lot of hard work, but I thoroughly enjoy it and wouldn't change athing.

I will try to get a survey put out in the next few days to solicit someinput for future editions.

And speaking of the future, I'm not sure where it's headed over thenext couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), andof course I'd love to have you all back any time... (actually2013 is probably bad for me. Is it sad to be planning your life thatfar out?). I'm going to defer those questions to Paul for now.

Please have a safe trip home, and keep an eye on the weather. I don'tanticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I wasthinking maybe Picasa. Does anyone have any recommendations?

7771. Re: [GPSL] Re: File Upload Area

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 04:01:40 UTC
From: HarryM
Topic: 7755 Message: 7771

Ron,
Thanks for the pics. In the pic labeled "Base 47 on left", that's ORB on the right.

Everyone,
I've posted a pic on the GPSL Forum "pic" area. It's a pic taken from ORB of another balloon in flight. Take a look and see if anyone can identify the group that flew it.

73 Harry KC5TRB

I have some photos for immediate viewing at http://gallery.me.com/n9qgs#100203

7772. Re: Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-26 21:10:11 UTC
From: ronald74
Topic: 7726 Message: 7772

Dear group,

This was my first GPSL, and I want to thank everyone for the warm hospitality in Kansas. I was first introduced to ARHAB with Near Space Science in Wisconsin back I would say it was around 1995-1996 time frame. I was an on-looker then, and was absent from the scene and got back into it from a recovery & tracking aspect in the last 2 to 3 years been active in helping with several groups (WB8ELK with SpacePort Indiana & BASE specifically in the last few years).

Bill's DominoEx package and what has been created with the spacenear.us website is amazing, and Im sorry I had a problem with Verizon to allow the full track to be recorded. They have credited me for the service for that day and I now have a phone number that I can get support on Saturday's.

I want to thank Brian, KC0BS with his rounds to the hotels to get people more familiar with UI-View, I know about 3 times more then I knew the last 2 years. But I may need still need help limiting web traffic in, as I think it killed my Verizon cap early along with a problem they said may have occurred at their end... but these are things we work out.

I think we last mentioned Pella, IA for 2011, I will get it marked on the calendar once a date is set, I think their will be a huge welcoming in this community. maybe we can make it on their calendar of events.

Thanks to BASE for the invite, and I enjoyed meeting Paul in helping with his Recovery, and the presentation, food, all excellent.

Thanks Again,
Ron N9QGS

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
. Ron N9QGS also had a DominoEX transmitter on the BASE balloon that was linked to the Spacenear.us/tracker website and that worked well until the final descent when his cell modem hit his upload limit...quite a few were watching there as well.

7773. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 04:50:34 UTC
From: L. Paul Verhage
Topic: 7726 Message: 7773

Excellent. Thanks guys for arranging this.

Now, about those NS QSL cards......

Paul

On Mon, Jul 26, 2010 at 10:06 PM, Mike Manes <mrmanes@...m> wrote:

> Thanks, Jeff,
>
> Yeah, I picked FL300 to avoid letting any "cheaters" get points for working
> the Mt. Everest machine :=). Keep us posted, if you will.
>
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/26/2010 20:37, Jeff Ryan wrote:
>
>> Mike:
>>
>> I like it. Let me run it past the Field Day folks at HQ and see if
>> they're
>> willing to write an exception. I like FL300 as it is 'so far removed'
>> from
>> repeaters to be in a separate category between repeaters or satellites.
>>
>> I think this is a great idea!
>>
>> 73,
>>
>> Jeff Ryan, KØRM
>> Colorado Section Manager
>> ARRL - The national association for Amateur Radio™
>> 9975 Wadsworth Pkwy K2-275
>> Westminster, CO 80021
>> 303-432-2886
>>
>>
>> -----Original Message-----
>> From: Mike Manes [mailto:mrmanes@...]
>> Sent: Monday, July 26, 2010 6:55 PM
>> To: Jeff Ryan K0RM
>> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP; Rob
>> Wright
>> KC0UUO

>> Subject: Fwd: Re: [GPSL] Thank you all!
>>
>> Hi Jeff,
>>
>> The EOSS contingent just returned from the 10th annual Great Plains Super
>> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
>> There were some 60 ham/balloonists a this years' event, with 13 launches
>> from HUT airport.
>>
>> Amidst a chorus of kudos comes the thought of doing a Field Day Super
>> Launch
>> with some sanction from the ARRL exempting the repeater rule for QSOs made
>> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
>>
>> What do you think, and could you pass that thought up the line to HQ?
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> -------- Original Message --------
>> Subject: Re: [GPSL] Thank you all!
>> Date: Sun, 25 Jul 2010 17:21:57 -0500
>> From: L. Paul Verhage<nearsys@...>
>> Reply-To: GPSL@yahoogroups.com
>> To: GPSL@yahoogroups.com
>>
>>
>>
>>
>>
>> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
>> contact them. I'm not a member, so I don't think I'd be a good person to
>> contact them.
>> Is someone in the ARHAB community have a high level contact in ARRL?
>> As I was saying, if getting ARRL onboard fails, we should be prepared to
>> give
>> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from
>> near space. We may not be a part of field day, but we have cookies.
>> Paul
>>
>> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
>> <mailto:zclobes@...>> wrote:
>>
>>
>>
>> The repeater contacts don't count towards the Field Day points. If
>> an
>> exception could be made for such a special event, then I think there
>> would
>> be a lot more interest.

>>
>> It seems like a reasonable request, but it should probably be taken
>> up
>> with the ARRL ASAP. I don't see them yet, but I'd image that FD
>> rules
>> will probably be posted by the end of the year.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org<http://www.projecttraveler.org/>
>>
>>
>> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
>> <mailto:wb8elk@...>>
>> wrote:
>>
>> As to the Field Day superlaunch....I flew a simplex repeater for
>> 2
>> of
>> the past 3 Field Days and we had a number of Field Day sites
>> talking
>> through the repeater across the Southeast and lower
>> Midwest...some
>> were 600 miles or more apart. This would be something that we
>> could
>> propose to the ARRL as a special contact event during Field Day,
>> if
>> nothing more than QSL cards. Allowing remote FD sites to talk to
>> each
>> other via the balloon repeater is after all, what Field Day is
>> supposed to be about (that and the great cookouts).
>> - Bill WB8ELk
>>
>>
>>
>> -----Original Message-----
>> From: Joe<nss@...<mailto:nss@...>>
>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>> Cc: wb8elk@...<mailto:wb8elk@...>
>> Sent: Sun, Jul 25, 2010 11:42 am
>> Subject: Re: [GPSL] Thank you all!
>>
>> I love the yearbook Idea.
>>
>> Would it be just the GPSL launches, for that year, or all
>> launches
>> from everywhere?
>>
>> Field Day is a no go for me. while yes I may be one of the

>> original
>> groups, only being a year behind Bill on doing these flights, I
>> have
>> yet been able to go to a GPSL. A few close friends know why.
>> But
>> even if it was possible, every Field Day since 1975 I have
>> actually
>> done "Field Day" ya know the whole 99% HF transmitting thing.
>> it's a
>> Big thing around here. so i'm tied up for sure on that day and
>> all
>> of
>> my chase and recovery teams are also tied up on that weekend. So
>> as
>> far as a FD day launck NSS won't be able to.
>>
>> Now as Paul says
>>
>> " But we could coordinate our launches and great special QSL
>> cards
>> for
>> everyone making a contact through a balloon on FD. It would be
>> nice
>> if we could talk to someone ar ARRL about this being a category
>> they
>> recognize. But if they don't want to, then sending out QSL cards
>> that
>> rode into near space may attract enough attention to makes some
>> contacts."
>>
>> Make some contacts is not a problem.. Well at least on our
>> flights
>> that we open for general public use Like cross band repeaters.
>>
>> Our last cross band repeater flight 238 QSO's we made through the
>> balloon. Thats not bad. A QSO rate than many contesters would
>> love
>> to have he he he..
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com<http://www.idle-tyme.com/>
>>
>> On 7/25/2010 3:21 AM, wb8elk@...<mailto:wb8elk@...>
>> wrote:
>>
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown

>>>
>> during
>>
>>> Field Day the past 3 years now and it's a blast and gets a lot of
>>> the local hams and public interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: L. Paul Verhage<nearsys@...>
>>>
>> <mailto:nearsys@...>
>>
>>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
>>> Nothing is planned for 2013 at this time. I'm amazed that we
>>> have
>>> GPSL planned this far out. Normally, we wouldn't have decided
>>>
>> next
>>
>>> year yet.
>>> That being said, 2012 is the 25th anniversary of modern ARHAB.
>>> We
>>> should make 2012 a special year. I'd like to see a year book
>>> with
>>> pictures and data from ev ery flight that year.
>>> I'd also like to see us start a FDSL. It wouldn't be located in
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>>> singe location like GPSL. But we could coordinate our launches
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>> and
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>>> great special QSL cards for everyone making a contact through a
>>> balloon on FD. It would be nice if we could talk to someone ar
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>> want
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>>> to, then sending out QSL cards that rode into near space may
>>>
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>>

>>> enough attention to makes some contacts.
>>> Paul
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>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<zclobes@...
>>> <mailto:zclobes@...>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the conversations, the
>>> kind words, and the comradery. Crys and I really enjoy this
>>> -
>>> she said it feels like a family reunion, and I have to agree.
>>> Honestly, hosting is a lot of hard work, but I thoroughly
>>>
>> enjoy
>>
>>> it and wouldn't change a thing.
>>>
>>>
>>> I will try to get a survey put out in the next few days to
>>> solicit some input for future editions.
>>>
>>> And speaking of the future, I'm not sure where it's headed
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>> over
>>
>>> the next couple of years. I've heard Omaha, Pella Iowa,
>>>
>> Pueblo
>>
>>> (EOSS), and of course I'd love to have you all back *any*
>>> time... (actually 2013 is probably bad for me. Is it sad to
>>>
>> be
>>
>>> planning your life that far out?). I'm going to defer those
>>> questions to Paul for now.
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>>>
>>> Please have a safe trip home, and keep an eye on the weather.
>>>
>> I
>>
>>> don't anticipate anything too severe tonight, but keep your
>>>
>> eyes
>>
>>> open.
>>>
>>> Zack Clobes, W0ZC

>>> Project: Traveler
>>> www.projecttraveler.org<http://www.projecttraveler.org/>
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>>>
>>> P.S. I'd like to get a central photo sharing site put
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>>
>>> I was thinking maybe Picasa. Does anyone have any
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>> recommendations?
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>>>
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>>> --
>>> Onwards and Upwards,
>>> Paul
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Onwards and Upwards,
Paul

7774. NearSys Report

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 05:03:51 UTC
From: L. Paul Verhage
Topic: 7774 Message: 7774

I've uploaded my files from the GPSL flight on my website at,
http://nearsys.com/arhab/flightdata/2010/c/index.htm

The only thng that went wrong is I accidentally shu off the video camera.
Rats!

Thanks everyone for helping with my 80th mission.

--
Onwards and Upwards,
Paul

7775. RE: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 05:05:09 UTC
From: Marty Griffin
Topic: 7726 Message: 7775
Attachments: 1 described; binary payloads are missing from this source WARC

Carlton and the RoboMO group,

It has been great fun watching you and your group progress over the past three years. Congratulations on your first flight and we at EOSS wish you many more of these fun adventures. Good luck with rovers!

- Marty, EOSS

From: ccccrnr@... [mailto:ccccrnr@aim.com]
Sent: Monday, July 26, 2010 9:35 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Thank you all!

Thanks to all at GPSL 2010 for making it a great time from all of us at RoboMO - Jacob, Jerry, Libby, Nick, Mike, and myself

It was great!!

Our groups 1st launch had highest packet on the way up of 62,457 followed by 6 straight packets of "NO FIX" data and our 1st packet on the way down (15 minutes later) was 65,181 our highest good packet...Near Space

We crashed in a horse and mule field ~ 20 or more miles from from our launch site.

Thanks to All and hope to see you in the future,

Carlton Corbitt - KI4NHK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Sun, Jul 25, 2010 9:21 am
Subject: Re: [GPSL] Thank you all!

You can go to www.projecttraveler.org and click on the Photo Gallery to see one in Picasa.

Zack

On Sun, Jul 25, 2010 at 11:11 AM, Joe <nss@...> wrote:

Really on the casual browsing?

I found it the opposite to be true.

Now that I'm on DSL it's Ok, but when i was on Dialup, if someone ever sent me to a Picassa page or i should say a link to one, I'd just never ever go because the bandwidth required to look around was soo bad that nothing was ever seen. At least with the yahoo group format everything was small thumbnails and if one image looked interesting, then you could bother

to download the large size, but you diddn't have to do them all.

Unless picassa is different now and a dialup person isn't killed like it used to be.

anyone send me a new Picassa site?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 7/25/2010 10:42 AM, Mark Conner wrote:

Picasa is great for integrating albums into your own websites. It's also a lot better for casual browsing. Just make sure the album is public so no Google signin is required.

As much as I like my new Droid, there's still no substitute for a real keyboard (home ISP still down).

Mark

On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...> wrote:

Thank you all very much for attending, the conversations, the kind words, and the comradery. Crys and I really enjoy this - she said it feels like a family reunion, and I have to agree. Honestly, hosting is a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.

I will try to get a survey put out in the next few days to solicit some input for future editions.

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Please have a safe trip home, and keep an eye on the weather. I don't anticipate anything too severe tonight, but keep your eyes open.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

P.S. I'd like to get a central photo sharing site put together, I was thinking maybe Picasa. Does anyone have any recommendations?

7776. Congratulations from SPAIN.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-25 10:22:57 UTC
From: civicup
Topic: 7776 Message: 7776

Congratulations for this special and fantastic event.
Very good launches, the best.

73s Enrique, EA3IK from SPAIN -Europe.
www.amired.es

7777. On-Line Flight Prediction Utility

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 13:02:55 UTC
From: Keith Kaiser
Topic: 7777 Message: 7777

The NSV on-line flight prediction page appears to be down due to unknown issues at the NOAA. As you know they have a tendency to change things and we have to play a game of hide-and-seek to fix it again.
Anyway, its down at the moment I'll try and keep an eye on it and let everyone know when it comes back.

Thanks for your understanding....

7778. Re: [GPSL] NearSys Report

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 13:58:30 UTC
From: HarryM
Topic: 7774 Message: 7778

Don't feel like the Lone Ranger Paul, I did the same thing AGAIN!
I shut it off at GPSL last year too.

73 Harry KC5TRB

The only thng that went wrong is I accidentally shu off the video camera. Rats!

7779. Fwd: GPS 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 14:10:56 UTC
From: L. Paul Verhage
Topic: 7779 Message: 7779

Brian from the Manhattan group may be on to something.

Do we have a contact with the Riley County Police to ask about this metal box?

Paul

---------- Forwarded message ----------
From: Brian <kc0dwx@...>
Date: Tue, Jul 27, 2010 at 6:12 AM
Subject: Re: GPS 2010
To: "L. Paul Verhage" <nearsys@...>

I should have mentioned it wasn't local but she thought somewhere in KS.

Umm, we did GPSL launches in Hutchinson this weekend, but the flights only
> went some 20 miles to McPherson.
>
> Paul
> On Mon, Jul 26, 2010 at 9:43 PM, <<mailto:kc0dwx@...>kc0dwx@...>
> wrote:
>
> The YL said when she went to work today at the RCPD someone said something
> about a metal box coming down in someones yard this weekend and a bombsquad
> being called in....Any insight into this???
> --
> Brian Carter
> KC0DWX
> President, MAARS
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

--
On the sixth day, God created the platypus. And God said: let's see the evolutionists try and figure this one out.

No trees were destroyed in the sending of this message, however, a significant number of electrons were terribly inconvenienced.

--
Onwards and Upwards,

Paul

7780. Taylor Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 14:55:05 UTC
From: Jeff Dailey
Topic: 2211 Message: 7780

Flight #: 239
Flight ID: CCLI
Date: 07-27-2010
Time: 10:30 AM
Launch Site: Taylor University

APRS: 144.390 KB9ZNZ-4

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

7781. Re: [GPSL] Fwd: GPS 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 15:10:17 UTC
From: Mark Conner
Topic: 7779 Message: 7781

Another possibility is to directly contact the county sheriff's office(s) in
the likely landing areas (McPherson Co., maybe others?). Or sounds like
Brian's wife might be the best unofficial conduit.

73 de Mark N9XTN

On Tue, Jul 27, 2010 at 09:10, L. Paul Verhage <nearsys@...> wrote:

>
>
> Brian from the Manhattan group may be on to something.
>
> Do we have a contact with the Riley County Police to ask about this metal
> box?
>
> Paul
>
> ---------- Forwarded message ----------
> From: Brian <kc0dwx@...>
> Date: Tue, Jul 27, 2010 at 6:12 AM
> Subject: Re: GPS 2010
> To: "L. Paul Verhage" <nearsys@...>
>
>
> I should have mentioned it wasn't local but she thought somewhere in KS.
>
> Umm, we did GPSL launches in Hutchinson this weekend, but the flights only
>> went some 20 miles to McPherson.
>>
>> Paul
>> On Mon, Jul 26, 2010 at 9:43 PM, <<mailto:kc0dwx@...>kc0dwx@...>
>> wrote:
>>
>> The YL said when she went to work today at the RCPD someone said something
>> about a metal box coming down in someones yard this weekend and a bombsquad
>> being called in....Any insight into this???
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>> Brian Carter
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>> Onwards and Upwards,

>> Paul
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> On the sixth day, God created the platypus. And God said: let's see the
> evolutionists try and figure this one out.
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> No trees were destroyed in the sending of this message, however, a
> significant number of electrons were terribly inconvenienced.
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

7782. Re: [GPSL] Re: Second Balloon in ORB photo

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 16:24:20 UTC
From: BASE
Topic: 7755 Message: 7782

Harry,
I am pretty sure that this is the BASE47 (W9YJ-11) flight string. It has the right number of components, a Kaymont balloon. We launched at the same time and we were flying a little below you for most of your flight (based on aprs.fi data). For example:
at 14:40 UTC ORB was over Arapaho Road just east of 11th Ave. at 46 kft and BASE 47 was on 11th Ave about 1/3 mile south of Arapaho Rd.
at 14:41 UTC both balloons were inside the same mile square, with ORB at 48 kft and BASE 47 at 46 kft
at 14:42 UTC both balloons were just south of Arrowhead Road between 11th and 12th Avenues. ORB was at 49 kft and BASE 47 was at 47 kft.
The last two time markers could give the proper illumination on the Kaymont balloon for the angle between the two.
If you know the time stamp for your photo, I should be able to match the altitudes and separation distances between the two balloons.
Howard
--- On Tue, 7/27/10, HarryM <hhm_74115@...> wrote:

From: HarryM <hhm_74115@...>
Subject: Re: [GPSL] Re: File Upload Area
To: GPSL@yahoogroups.com
Date: Tuesday, July 27, 2010, 12:01 AM

Ron,
Thanks for the pics. In the pic labeled "Base 47 on left", that's ORB on
the right.

Everyone,
I've posted a pic on the GPSL Forum "pic" area. It's a pic taken from ORB
of another balloon in flight. Take a look and see if anyone can identify the
group that flew it.

73 Harry KC5TRB

I have some photos for immediate viewing at http://gallery. me.com/n9qgs# 100203

7783. Re: [GPSL] Re: Second Balloon in ORB photo

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 16:32:18 UTC
From: Mark Conner
Topic: 7755 Message: 7783

Howard,

Can you provide lat/lon data? I think you're on the right track. With Google Earth you can probably simulate the perspective and see if that matches Harry's photo.

Cool photo getting another balloon in-flight as more than a pinprick.

73 de Mark N9XTN

On Tue, Jul 27, 2010 at 11:24, BASE <basedepauw@...> wrote:

>
>
> Harry,
>
> I am pretty sure that this is the BASE47 (W9YJ-11) flight string. It has
> the right number of components, a Kaymont balloon. We launched at the same
> time and we were flying a little below you for most of your flight (based on
> aprs.fi data). For example:
>
> at 14:40 UTC ORB was over Arapaho Road just east of 11th Ave. at 46 kft and
> BASE 47 was on 11th Ave about 1/3 mile south of Arapaho Rd.
>
> at 14:41 UTC both balloons were inside the same mile square, with ORB at 48
> kft and BASE 47 at 46 kft
>
> at 14:42 UTC both balloons were just south of Arrowhead Road between 11th
> and 12th Avenues. ORB was at 49 kft and BASE 47 was at 47 kft.
>
> The last two time markers could give the proper illumination on the Kaymont
> balloon for the angle between the two.
>
> If you know the time stamp for your photo, I should be able to match the
> altitudes and separation distances between the two balloons.
>
> Howard
>
> --- On *Tue, 7/27/10, HarryM <hhm_74115@...>* wrote:
>
>
> From: HarryM <hhm_74115@...>
> Subject: Re: [GPSL] Re: File Upload Area
> To: GPSL@yahoogroups.com
> Date: Tuesday, July 27, 2010, 12:01 AM
>

>
>
> Ron,
> Thanks for the pics. In the pic labeled "Base 47 on left", that's ORB on
> the right.
>
> Everyone,
> I've posted a pic on the GPSL Forum "pic" area. It's a pic taken from ORB
> of another balloon in flight. Take a look and see if anyone can identify the
> group that flew it.
>
> 73 Harry KC5TRB
>
>
>
>
> I have some photos for immediate viewing at http://gallery. me.com/n9qgs#
> 100203 <http://gallery.me.com/n9qgs#100203>
>
>
>
>
>

7784. Re: [GPSL] Re: Second Balloon in ORB photo

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 16:38:24 UTC
From: L. Paul Verhage
Topic: 7755 Message: 7784

Harry, is there another location you can move the picture? I can't get into
the Yahoo pictures site because I don't remember my Yahoo account.

Paul

On Tue, Jul 27, 2010 at 11:32 AM, Mark Conner <mconner1@...> wrote:

>
>
> Howard,
>
> Can you provide lat/lon data? I think you're on the right track. With
> Google Earth you can probably simulate the perspective and see if that
> matches Harry's photo.
>
> Cool photo getting another balloon in-flight as more than a pinprick.
>
> 73 de Mark N9XTN
>
>
> On Tue, Jul 27, 2010 at 11:24, BASE <basedepauw@...> wrote:
>
>>
>>
>> Harry,
>>
>> I am pretty sure that this is the BASE47 (W9YJ-11) flight string. It has
>> the right number of components, a Kaymont balloon. We launched at the same
>> time and we were flying a little below you for most of your flight (based on
>> aprs.fi data). For example:
>>
>> at 14:40 UTC ORB was over Arapaho Road just east of 11th Ave. at 46 kft
>> and BASE 47 was on 11th Ave about 1/3 mile south of Arapaho Rd.
>>
>> at 14:41 UTC both balloons were inside the same mile square, with ORB at
>> 48 kft and BASE 47 at 46 kft
>>
>> at 14:42 UTC both balloons were just south of Arrowhead Road between 11th
>> and 12th Avenues. ORB was at 49 kft and BASE 47 was at 47 kft.
>>
>> The last two time markers could give the proper illumination on the
>> Kaymont balloon for the angle between the two.
>>
>> If you know the time stamp for your photo, I should be able to match the
>> altitudes and separation distances between the two balloons.
>>

>> Howard
>>
>> --- On *Tue, 7/27/10, HarryM <hhm_74115@...>* wrote:
>>
>>
>> From: HarryM <hhm_74115@...>
>> Subject: Re: [GPSL] Re: File Upload Area
>> To: GPSL@yahoogroups.com
>> Date: Tuesday, July 27, 2010, 12:01 AM
>>
>>
>>
>> Ron,
>> Thanks for the pics. In the pic labeled "Base 47 on left", that's ORB on
>> the right.
>>
>> Everyone,
>> I've posted a pic on the GPSL Forum "pic" area. It's a pic taken from ORB
>> of another balloon in flight. Take a look and see if anyone can identify the
>> group that flew it.
>>
>> 73 Harry KC5TRB
>>
>>
>>
>>
>> I have some photos for immediate viewing at http://gallery. me.com/n9qgs#
>> 100203 <http://gallery.me.com/n9qgs#100203>
>>
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--
Onwards and Upwards,
Paul

7785. Re: [GPSL] Re: Second Balloon in ORB photo

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 19:42:44 UTC
From: BASE
Topic: 7755 Message: 7785
Attachments: 1 described; binary payloads are missing from this source WARC

Mark,
I'm tied up for the next day or so. What I did was use aprs.fi in two different browser tabs. I looked up the activity for W9YJ-11 and KC5TRB-11 for July 24. The lat/lon are found with the cursor moving over the points. Unfortunately, the i-gate on 144.34 missed a good part of the first portion of the ORB flight. It is possible that the picture came from a lower altitude. However, it was fortunate that W9YJ-11 beaconed on the 52 second past each minute which nearly perfectly lined up with half of the KC5TRB-11 beacon reports.

I'm attaching a text file with the W9YJ-11 data, perhaps someone else has the data for KC5TRB-11.

I've also overlaid the aprs.fi kml files for the two flights. Later in the flight, I believe that the sun angle doesn't match the image.

Howard

--- On Tue, 7/27/10, Mark Conner <mconner1@...> wrote:

From: Mark Conner
<mconner1@...>
Subject: Re: [GPSL] Re: Second Balloon in ORB photo
To: GPSL@yahoogroups.com
Date: Tuesday, July 27, 2010, 12:32 PM

Howard,

Can you provide lat/lon data? I think you're on the right track. With Google Earth you can probably simulate the perspective and see if that matches Harry's photo.

Cool photo getting another balloon in-flight as more than a pinprick.

73 de Mark N9XTN

On Tue, Jul 27, 2010 at 11:24, BASE <basedepauw@yahoo. com> wrote:

Harry,
I am pretty sure that this is the BASE47 (W9YJ-11) flight string. It has the right number of components, a Kaymont balloon. We launched at the same time and we were flying a little below you for most of your flight (based on aprs.fi data). For example:

at 14:40 UTC ORB was over Arapaho Road just east of 11th Ave. at 46 kft and BASE 47 was on 11th Ave about 1/3 mile south of Arapaho Rd.
at 14:41 UTC both balloons were inside the same mile square, with ORB at 48 kft and BASE 47 at 46 kft

at 14:42 UTC both balloons were just south of Arrowhead Road between 11th and 12th Avenues. ORB was at 49 kft and BASE 47 was at 47 kft.

The last two time markers could give the proper illumination on the Kaymont balloon for the angle between the two.
If you know the time stamp for your photo, I should be able to match the altitudes and separation distances between the two balloons.
Howard

--- On Tue, 7/27/10, HarryM <hhm_74115@cox. net> wrote:

From: HarryM <hhm_74115@cox. net>
Subject: Re: [GPSL] Re: File Upload Area
To: GPSL@yahoogroups. com

Date: Tuesday, July 27, 2010, 12:01 AM

Ron,
Thanks for the pics. In the pic labeled "Base 47 on left", that's ORB on the right.

Everyone,
I've posted a pic on the GPSL Forum "pic" area. It's a pic taken from ORB of another balloon in flight. Take a look and see if anyone can identify the group that flew it.

73 Harry KC5TRB

I have some photos for immediate viewing at http://gallery. me.com/n9qgs# 100203

7786. Re: [GPSL] Re: Second Balloon in ORB photo [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 20:11:36 UTC
From: HarryM
Topic: 7786 Message: 7786
Attachments: 1 described; binary payloads are missing from this source WARC

I haven't had time to figure out approx. when the pic was taken.

Attached is the ORB log.

> I'm attaching a text file with the W9YJ-11 data, perhaps someone else has the data for KC5TRB-11.

7787. Fugo Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-27 23:12:39 UTC
From: Keith Kaiser
Topic: 7787 Message: 7787

I just watched with fascination a 2005, PBS documentary about the Japanese fugo balloons launched during World War II. It's called 'On and Wind and a Prayer' it shows using actual footage and CGI reenactment the use of these pretty much unknown bomb delivery devices. It talks and shows how the balloons, its package and ballast system were built and designed. It is hard to believe that 60 years ago, some of the very things we do today were already being done. In fact the video also talks about how balloons were used in 1845 in Venice for the same purpose.

The video is available from NetFlix usually with a short wait and last only 60 minutes. Most public libraries also carry a copy or two. I recommend that everyone interested in the hobby of high altitude ballooning take a few minutes and watch this fascinating show. I'm not sure I learned how to design a balloon to cross the Pacific (Atlantic?) so much as that it can be done. Makes me want to try for a Atlantic crossing, anyone still working on this project from a couple of years ago?

7788. Re: [Balloon_Sked] cross band repeat balloon - August 7 from Rantoul, IL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 01:45:43 UTC
From: BASE
Topic: 7788 Message: 7788

Tony,
I'm the one that announced the August flight. I messed up the listing on the ARHAB site and still haven't gotten it corrected.

BASE (DePauw) will be launching a cross band repeater from Rantoul, Illinois on Saturday, August 7 as part of a Boy Scout event, SpaceJam 4. Launch will be approximately 8:30 am Central Daylight Time. I hope to park the balloon above 70 kft for a couple of hours and descend slowly on the balloon after that time. The cross band will use 144.340 MHz as the uplink and 446.025 MHz as the downlink.
We will have a separate balloon carrying NTSC ATV on 439.25 MHz.
Both balloons will be transmitting APRS and DominoEX.
Howard

--- On Tue, 7/27/10, natewac@... <natewac@...> wrote:

From: natewac@aol.com <natewac@...>
Subject: [Balloon_Sked] cross band repeat balloon
To: Balloon_Sked@yahoogroups.com
Date: Tuesday, July 27, 2010, 4:49 PM

I thought a month or two ago someone stated that a cross band repeat balloon will be launched in August either from Wisconsin or Illinois. Can someone confirm this please?

N8WAC

7789. Re: [GPSL] Fugo Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 03:21:21 UTC
From: Mike Manes
Topic: 7787 Message: 7789

Hi Keith,

The Japanese knew a LOT more about stratospheric winds in WW2 than the US did.
In fact, one of the early B-29 bomb raids on the mainland got all screwed up
when they observed over 300 kt ground speed - way faster than a B-29 could
fly. The honchos back at the base refused to believe the B-N who reported
those winds!

But we eventually figgered it out.

BTW, one of those fugo balloons landed just a mile or so N of our winter
launch site near Ft Collins CO.

73 de Mike W5VSI, EOSS

On 7/27/2010 17:12, Keith Kaiser wrote:
> I just watched with fascination a 2005, PBS documentary about the Japanese fugo balloons launched during World War II. It's called 'On and Wind and a Prayer' it shows using actual footage and CGI reenactment the use of these pretty much unknown bomb delivery devices. It talks and shows how the balloons, its package and ballast system were built and designed. It is hard to believe that 60 years ago, some of the very things we do today were already being done. In fact the video also talks about how balloons were used in 1845 in Venice for the same purpose.
>
> The video is available from NetFlix usually with a short wait and last only 60 minutes. Most public libraries also carry a copy or two. I recommend that everyone interested in the hobby of high altitude ballooning take a few minutes and watch this fascinating show. I'm not sure I learned how to design a balloon to cross the Pacific (Atlantic?) so much as that it can be done. Makes me want to try for a Atlantic crossing, anyone still working on this project from a couple of years ago?
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7790. Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 03:23:19 UTC
From: Zack Clobes
Topic: 7790 Message: 7790

Who was the first group to launch? What time did that wind up being?

EOSS, what time did you launch?

Zack

7791. Re: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 04:01:15 UTC
From: Mike Manes
Topic: 7790 Message: 7791

Hi Zack,

I wasn't taking notes, but I think EOSS launched a little after 1000, IIRC.
Or maybe 0900? A little after the hour.

73 de Mike W5VSI

On 7/27/2010 21:23, Zack Clobes wrote:
>
>
> Who was the first group to launch? What time did that wind up being?
>
> EOSS, what time did you launch?
>
>
> Zack
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7792. Re: [GPSL] Fugo Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 06:26:38 UTC
From: wb8elk@aol.com
Topic: 7787 Message: 7792

Hi Keith...yes, I'm going to do another series of trans-Atlantic flights once the winds get good in late November.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, Jul 27, 2010 6:12 pm
Subject: [GPSL] Fugo Balloons

I just watched with fascination a 2005, PBS documentary about the Japanese fugo balloons launched during World War II. It's called 'On and Wind and a Prayer' it shows using actual footage and CGI reenactment the use of these pretty much unknown bomb delivery devices. It talks and shows how the balloons, its package and ballast system were built and designed. It is hard to believe that 60 years ago, some of the very things we do today were already being done. In fact the video also talks about how balloons were used in 1845 in Venice for the same purpose.

The video is available from NetFlix usually with a short wait and last only 60 minutes. Most public libraries also carry a copy or two. I recommend that everyone interested in the hobby of high altitude ballooning take a few minutes and watch this fascinating show. I'm not sure I learned how to design a balloon to cross the Pacific (Atlantic?) so much as that it can be done. Makes me want to try for a Atlantic crossing, anyone still working on this project from a couple of years ago?

7793. Re: [GPSL] Fugo Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 06:29:23 UTC
From: James Coxon
Topic: 7787 Message: 7793

Hey Keith,

The AtlanticHalo team are still working towards a launch - taking its time though! - Perhaps launch this winter.

James
M6JCX
http://www.pegasushabproject.org.uk

On 28 July 2010 07:26, <wb8elk@...> wrote:

>
>
> Hi Keith...yes, I'm going to do another series of trans-Atlantic flights
> once the winds get good in late November.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Keith Kaiser <wa0tjt@...>
> To: gpsl <GPSL@yahoogroups.com>
> Sent: Tue, Jul 27, 2010 6:12 pm
> Subject: [GPSL] Fugo Balloons
>
>
> I just watched with fascination a 2005, PBS documentary about the
> Japanese fugo balloons launched during World War II. It's called 'On and
> Wind and a Prayer' it shows using actual footage and CGI reenactment the use
> of these pretty much unknown bomb delivery devices. It talks and shows how
> the balloons, its package and ballast system were built and designed. It is
> hard to believe that 60 years ago, some of the very things we do today were
> already being done. In fact the video also talks about how balloons were
> used in 1845 in Venice for the same purpose.
>
> The video is available from NetFlix usually with a short wait and last only
> 60 minutes. Most public libraries also carry a copy or two. I recommend that
> everyone interested in the hobby of high altitude ballooning take a few
> minutes and watch this fascinating show. I'm not sure I learned how to
> design a balloon to cross the Pacific (Atlantic?) so much as that it can be
> done. Makes me want to try for a Atlantic crossing, anyone still working on
> this project from a couple of years ago?
>
>

7794. RE: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 06:42:09 UTC
From: Rick von Glahn
Topic: 7790 Message: 7794

Our first airborne packet:

AE0SS-11>APRS:$GPGGA,145800,3803.9836,N,09752.0551,W,1,06,1.07,462.6,M,-26.5
,M,,*46

So, 9:58 CDT

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack
Clobes
Sent: Tuesday, July 27, 2010 9:23 PM
To: Group GPSL
Subject: [GPSL] Saturday flight stats

Who was the first group to launch? What time did that wind up being?

EOSS, what time did you launch?

Zack

7795. Re: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 09:05:12 UTC
From: BASE
Topic: 7790 Message: 7795

Zack,
Nick Stich, K0NMS-11 was the first to go airborne. The first APRS packet was at 8:37:37 am CDT at an altitude of 5340 ft ASL. Nick's ascent rate near the surface was about 1000 ft/min. I'd guess his release was about 8:34 am.
Howard

--- On Tue, 7/27/10, Zack Clobes <zclobes@gmail.com> wrote:

From: Zack Clobes <zclobes@...>
Subject: [GPSL] Saturday flight stats
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Tuesday, July 27, 2010, 11:23 PM

Who was the first group to launch? What time did that wind up being?

EOSS, what time did you launch?

Zack

7796. Re: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 09:44:29 UTC
From: BASE
Topic: 7790 Message: 7796

Zach,
Here's what I can put together about the launch sequence from aprs.fi and Rick's time for EOSS.
Nick Stich 8:34 amNear Space Ventures unknownDryden Engineering unknownJerome Doerrie unknownNearSys 8:51 amARBONET 8:51 amBASE 9:01 amORB 9:01 amROBOMO 9:37 amProject Traveler 9:52 amEOSS 9:58 am
Howard

--- On Tue, 7/27/10, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@...>
Subject: [GPSL] Saturday flight stats
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Tuesday, July 27, 2010, 11:23 PM

Who was the first group to launch? What time did that wind up being?

EOSS, what time did you launch?

Zack

7797. Re: [GPSL] Fwd: GPS 2010 metal box recovery

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 12:18:12 UTC
From: BASE
Topic: 7779 Message: 7797

Dear all,
As a veteran of a very slow climb, I've been thinking about the metal box that landed and attracted the sheriff's department.

Could it be Jerome's flight? When I did the prediction for 1000 ft/min ascent, floating for 50 minutes and descending at 500 ft/min for Saturday, my landing spot was just east of Abilene. I recall some observers that thought that Jerome's ascent rate was quite slow. A very slow ascent with normal descent could easily put a payload into Riley County (it is on the same heading as the rest of the flights).
I hope someone will follow up with the authorities.
Howard

--- On Tue, 7/27/10, L. Paul Verhage <nearsys@gmail.com> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Fwd: GPS 2010
To: gpsl@yahoogroups.com
Date: Tuesday, July 27, 2010, 10:10 AM

Brian from the Manhattan group may be on to something.

Do we have a contact with the Riley County Police to ask about this metal box?

Paul

---------- Forwarded message ----------
From: Brian <kc0dwx@...>
Date: Tue, Jul 27, 2010 at 6:12 AM

Subject: Re: GPS 2010
To: "L. Paul Verhage" <nearsys@gmail. com>

I should have mentioned it wasn't local but she thought somewhere in KS.

Umm, we did GPSL launches in Hutchinson this weekend, but the flights only went some 20 miles to McPherson.

Paul
On Mon, Jul 26, 2010 at 9:43 PM, <<mailto:kc0dwx@...>kc0dwx@...> wrote:

The YL said when she went to work today at the RCPD someone said something about a metal box coming down in someones yard this weekend and a bombsquad being called in....Any insight into this???

--
Brian Carter
KC0DWX
President, MAARS

--
Onwards and Upwards,
Paul

--
On the sixth day, God created the platypus. And God said: let's see the evolutionists try and figure this one out.

No trees were destroyed in the sending of this message, however, a significant number of electrons were terribly inconvenienced.

--
Onwards and Upwards,
Paul

7798. Re: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 13:26:42 UTC
From: Zack Clobes
Topic: 7790 Message: 7798

Thanks.

On Wed, Jul 28, 2010 at 4:44 AM, BASE <basedepauw@...> wrote:

>
>
> Zach,
>
> Here's what I can put together about the launch sequence from aprs.fi and
> Rick's time for EOSS.
>
> Nick Stich 8:34 am
> Near Space Ventures unknown
> Dryden Engineering unknown
> Jerome Doerrie unknown
> NearSys 8:51 am
> ARBONET 8:51 am
> BASE 9:01 am
> ORB 9:01 am
> ROBOMO 9:37 am
> Project Traveler 9:52 am
> EOSS 9:58 am
>
> Howard
>
>
>
> --- On *Tue, 7/27/10, Zack Clobes <zclobes@...>* wrote:
>
>
> From: Zack Clobes <zclobes@...>
> Subject: [GPSL] Saturday flight stats
> To: "Group GPSL" <GPSL@yahoogroups.com>
> Date: Tuesday, July 27, 2010, 11:23 PM
>
>
>
> Who was the first group to launch? What time did that wind up being?
>
>
> EOSS, what time did you launch?
>
>
> Zack
>

>
>
>

7799. Re: [GPSL] Fugo Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 13:56:23 UTC
From: Joe
Topic: 7787 Message: 7799
Attachments: 1 described; binary payloads are missing from this source WARC

Us Also
Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/28/2010 1:29 AM, James Coxon wrote:
>
>
> Hey Keith,
>
> The AtlanticHalo team are still working towards a launch - taking its
> time though! - Perhaps launch this winter.
>
> James
> M6JCX
> http://www.pegasushabproject.org.uk
>
> On 28 July 2010 07:26, <wb8elk@... <mailto:wb8elk@...>> wrote:
>
> Hi Keith...yes, I'm going to do another series of trans-Atlantic
> flights once the winds get good in late November.
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Keith Kaiser <wa0tjt@... <mailto:wa0tjt@...>>
> To: gpsl <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
> Sent: Tue, Jul 27, 2010 6:12 pm
> Subject: [GPSL] Fugo Balloons
>
> I just watched with fascination a 2005, PBS documentary about the
> Japanese fugo balloons launched during World War II. It's called
> 'On and Wind and a Prayer' it shows using actual footage and CGI
> reenactment the use of these pretty much unknown bomb delivery
> devices. It talks and shows how the balloons, its package and
> ballast system were built and designed. It is hard to believe that
> 60 years ago, some of the very things we do today were already
> being done. In fact the video also talks about how balloons were
> used in 1845 in Venice for the same purpose.
>

> The video is available from NetFlix usually with a short wait and
> last only 60 minutes. Most public libraries also carry a copy or
> two. I recommend that everyone interested in the hobby of high
> altitude ballooning take a few minutes and watch this fascinating
> show. I'm not sure I learned how to design a balloon to cross the
> Pacific (Atlantic?) so much as that it can be done. Makes me want
> to try for a Atlantic crossing, anyone still working on this
> project from a couple of years ago?
>
>
>
>
>

7800. Outdoor Flash Photography Nay-Sayers

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 15:10:07 UTC
From: Zack Clobes
Topic: 7800 Message: 7800
Attachments: 2 described; binary payloads are missing from this source WARC

Some of you were commenting on my use of outdoor flash during the group photo. Attached are two photos (not my best, but they were back-to-back with and without flash) that were cropped.

Exposure was not the same between the two, but I think it's fairly obvious that the fill flash was somewhat effective at filling in the shadows.

Zack

7801. Re: [GPSL] Saturday flight stats

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 15:13:02 UTC
From: Sheri Barton Trbovich
Topic: 7790 Message: 7801

Hi Zack,

According to John Sohl, Keith Kaiser's Near Space Ventures balloon launched at 8:44 am. Our tracking call sign was KE7ROS-10.

Take care,
Sheri

Sent from Sheri and Ian's iPad.

On Jul 28, 2010, at 3:44 AM, BASE <basedepauw@...> wrote:

> Zach,
>
> Here's what I can put together about the launch sequence from aprs.fi and Rick's time for EOSS.
>
> Nick Stich 8:34 am
> Near Space Ventures unknown
> Dryden Engineering unknown
> Jerome Doerrie unknown
> NearSys 8:51 am
> ARBONET 8:51 am
> BASE 9:01 am
> ORB 9:01 am
> ROBOMO 9:37 am
> Project Traveler 9:52 am
> EOSS 9:58 am
>
> Howard
>
>
>
> --- On Tue, 7/27/10, Zack Clobes <zclobes@...> wrote:
>
> From: Zack Clobes <zclobes@...>
> Subject: [GPSL] Saturday flight stats
> To: "Group GPSL" <GPSL@yahoogroups.com>
> Date: Tuesday, July 27, 2010, 11:23 PM
>
>
>
> Who was the first group to launch? What time did that wind up being?
>
> EOSS, what time did you launch?
>
>

> Zack
>
>

7802. Does anyone have a good flight photo from GPSL that they would be willing to have published in a magazine article?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 15:24:52 UTC
From: Zack Clobes
Topic: 7802 Message: 7802

Just email me directly with one or two if you're interested. Also include the name of whom credit should be given.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7803. Re: [GPSL] Does anyone have a good flight photo from GPSL that they would be willing to have published in a magazine article?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 16:36:19 UTC
From: Michael Willett
Topic: 7802 Message: 7803

I am sure I have one or two, and you can find them in the payload
someplace up by McPherson! :)

--Michael K5NOT

On 7/28/2010 10:24 AM, Zack Clobes wrote:
>
> Just email me directly with one or two if you're interested. Also
> include the name of whom credit should be given.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>

7804. BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 17:48:50 UTC
From: BASE
Topic: 7804 Message: 7804

Dear friends,

I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:

For Real Media player (27 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm

For Quick Time player (15 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt

Enjoy,
Howard

7805. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 17:56:33 UTC
From: Keith Kaiser
Topic: 7804 Message: 7805

Oh WOW!

On Jul 28, 2010, at 12:48 PM, BASE wrote:

> Dear friends,
>
> I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:
>
> For Real Media player (27 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm
>
> For Quick Time player (15 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt
>
> Enjoy,
> Howard
>
>

7806. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 17:57:41 UTC
From: Mark Garrett
Topic: 7804 Message: 7806

Man, that is a scary video.

Mark Garrett,

From: BASE <basedepauw@...>
To: Great Plains Superlaunch <gpsl@yahoogroups.com>; Ballooning Group <ballooning@yahoogroups.com>
Cc: Harry Brooks <hbrooks@...>; Jason Krueger <jkrueger@...>; jfdailey@...
Sent: Wed, July 28, 2010 12:48:50 PM
Subject: [GPSL] BASE 46 video for your entertainment

Dear friends,

I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:

For Real Media player (27 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm

For Quick Time player (15 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt

Enjoy,
Howard

7807. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:03:45 UTC
From: Michael Willett
Topic: 7804 Message: 7807

That wazzzzzzz azzzzzzz hair razzzzzzzing experienzzzzzz azzzzzz I would ever want to see zzzzzzzzzzzz.

I like the strings buzzzzzzing near the chute, like human hair after touching a Vandegraph generator!

Lucky you that it got itself out of there, it is a lot easier to cut down trees to get your payload back! :) :) :)

--Michael K5NOT

7808. Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:05:00 UTC
From: Mike Manes
Topic: 4708 Message: 7808

Hi Jeff,

Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly in the past 10 years, so, unlike some of the ham radio specialties like microwaves, its popularity hasn't been noticed by the general ham population.

One index of ARHAB's growth might be the attendance at the 10th annual Great Plains Super Launch in Hutchinson KS last weekend, which brought in some 60 attendees from 13 different groups around the US, two of which conducted their maiden launches last Saturday morning.

Probably the most comprehensive on-line source of ARHAB stats is at

http://www.arhab.org/

Clicking on the ARHABlinks button reveals that there are at least 82 balloon groups in the world who have signed up on that web site, with some 70 in the US and Canada and the rest flying internationally. And I know that this list is incomplete, since there are some groups I've heard from that don't appear on that list.

Quite a departure from the handful of groups that were active when EOSS started up barely 20 years ago.

Note that a good number of these groups are associated with colleges which serve as Elmers for bringing new hams into hobby. EOSS itself has fostered quite a few new hams.

So what draws hams to this new specialty? It's hard to say - for some, myself included, it's the kick I get seeing students cheer upon seeing their experiments soar skyward towards the edge of space, and their enthusiasm upon seeing them return to earth. For others, it's the thrill of a flying foxhunt. One middle school teacher that EOSS flew for back in its salad days tagged it "The Poor Man's Space Program".

Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering flight in 1987, was inspired by the USAF and NASA manned high altitude flights in the '60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did when he bailed out from 103,000 ft - but only vicariously via his ATV payload. Mike Morgan, N0MPM, put it quite well in observing that ARHAB crams more different aspects of ham radio into a single event than any other - homebrewed payloads, field operations from portable sites, directed nets, APRS tracking, DFing to the landing site, orienteering and multiband, multimode mobile operations, meterology, atmospheric physics and conducting some real science - not to mention Elmering. Paul Verhage KD4STH, who created the first GPSL event, has even written a how-to book available online at www.parallax.com.

Now lets get to the ARHAB-borne repeater question: Most ARHAB flights reach at least 90,000 ft MSL before bursting. The radio horizon from that altitude is about 400 statute miles, thus enabling stations 800 miles apart to QSO. And it's been done! The 2-way "EBE" QSO record is held by ANSR's crossband repeater, where a ham in Los Angeles CA worked another in Las Cruces NM. Prior to that, EOSS held that record with a QSO between Garden City KS and Riverton WY - some 380 miles with just 180 mW ERP from the balloon 2m downlink. Two groups have even managed an "EBBE" QSO, using linked repeaters on separate balloons.

Speaking of DX, one tempting goal that's evaded achievement so far is a trans-Atlantic flight. But one group almost made it, launching from the east coast and landing two days later just a few hundred miles from Ireland. See the records page:

http://www.arhab.org/ARHABrecords.htm

Although ARHAB can be conducted by solo hams, it's usually a group effort amongst several hams who specialize in designing and building payloads (No, Dorothy, there's no Payloads 'R Us), writing and running trajectory and real-time tracking and reporting software, preparing and launching flight strings, teaching student groups, working with the FAA, etc. EOSS, e.g., has some 40 paid-up members, and about 14 of us convoyed to GPSL 2010 last week. My guess is that the typical balloon group has 5 active members, making for about 410 hams doing ARHAB regularly.

But that's not the point of the Field Day Super Launch idea. It wouldn't be an activity limited to ARHAB hams, just the same as Oscar ops aren't limited to AMSAT members. The FDSL repeaters would be open to any FD station, just like orbital satellites are today. The only difference is altitude and terrestrial footprint. And it doesn't take a fancy az-el array to work thru a balloon repeater; why, I QSOed a guy in KS from our launch site in N Colo using just my HT! It is written: "Line of sight is a magic thing."

All we're asking is just a piece of the consideration given satellite QSOs for FD. Real time GPS-based APRS reports of lat/lon and altitude are de riguer for all ARHAB flights nowadays - not DF triangulation and baro pressure telemetry like back in the salad days. So the FL300+ restriction can be validated in real time.

So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.

73 de Mike W5VSI
CTO EOSS

On 7/27/2010 22:21, Jeff Ryan wrote:
> Mike:
>
> How many Amateur Radio ballooning groups are there across the U.S.? HQ
> initial reaction was lukewarm but I think it's a 'scale' issue-- they don't
> think a balloon repeater would have a very large impact on Field Day...
>

> Jeff Ryan, KØRM
> Colorado Section Manager
> ARRL - The national association for Amateur Radio™
> 9975 Wadsworth Pkwy K2-275
> Westminster, CO 80021
> 303-432-2886
>
>
> -----Original Message-----
> From: Mike Manes [mailto:mrmanes@...]
> Sent: Monday, July 26, 2010 9:07 PM
> To: Jeff Ryan
> Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH TVNSP'; 'Rob
> Wright KC0UUO'
> Subject: Re: [GPSL] Thank you all!
>
> Thanks, Jeff,
>
> Yeah, I picked FL300 to avoid letting any "cheaters" get points for working
> the Mt. Everest machine :=). Keep us posted, if you will.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/26/2010 20:37, Jeff Ryan wrote:
>> Mike:
>>
>> I like it. Let me run it past the Field Day folks at HQ and see if
> they're
>> willing to write an exception. I like FL300 as it is 'so far removed'
> from
>> repeaters to be in a separate category between repeaters or satellites.
>>
>> I think this is a great idea!
>>
>> 73,
>>
>> Jeff Ryan, KØRM
>> Colorado Section Manager
>> ARRL - The national association for Amateur Radio™
>> 9975 Wadsworth Pkwy K2-275
>> Westminster, CO 80021
>> 303-432-2886
>>
>>
>> -----Original Message-----
>> From: Mike Manes [mailto:mrmanes@...]
>> Sent: Monday, July 26, 2010 6:55 PM
>> To: Jeff Ryan K0RM
>> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP; Rob

> Wright
>> KC0UUO
>> Subject: Fwd: Re: [GPSL] Thank you all!
>>
>> Hi Jeff,
>>
>> The EOSS contingent just returned from the 10th annual Great Plains Super
>> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
>> There were some 60 ham/balloonists a this years' event, with 13 launches
>> from HUT airport.
>>
>> Amidst a chorus of kudos comes the thought of doing a Field Day Super
> Launch
>> with some sanction from the ARRL exempting the repeater rule for QSOs made
>> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
>>
>> What do you think, and could you pass that thought up the line to HQ?
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> -------- Original Message --------
>> Subject: Re: [GPSL] Thank you all!
>> Date: Sun, 25 Jul 2010 17:21:57 -0500
>> From: L. Paul Verhage<nearsys@gmail.com>
>> Reply-To: GPSL@yahoogroups.com
>> To: GPSL@yahoogroups.com
>>
>>
>>
>>
>>
>> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
>> contact them. I'm not a member, so I don't think I'd be a good person to
>> contact them.
>> Is someone in the ARHAB community have a high level contact in ARRL?
>> As I was saying, if getting ARRL onboard fails, we should be prepared to
>> give
>> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from
>> near space. We may not be a part of field day, but we have cookies.
>> Paul
>>
>> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
>> <mailto:zclobes@...>> wrote:
>>
>>
>>
>> The repeater contacts don't count towards the Field Day points. If
> an
>> exception could be made for such a special event, then I think there

>> would
>> be a lot more interest.
>>
>> It seems like a reasonable request, but it should probably be taken
> up
>> with the ARRL ASAP. I don't see them yet, but I'd image that FD
> rules
>> will probably be posted by the end of the year.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org<http://www.projecttraveler.org/>
>>
>>
>> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
>> <mailto:wb8elk@...>>
>> wrote:
>>
>> As to the Field Day superlaunch....I flew a simplex repeater for
> 2
>> of
>> the past 3 Field Days and we had a number of Field Day sites
>> talking
>> through the repeater across the Southeast and lower
> Midwest...some
>> were 600 miles or more apart. This would be something that we
> could
>> propose to the ARRL as a special contact event during Field Day,
> if
>> nothing more than QSL cards. Allowing remote FD sites to talk to
>> each
>> other via the balloon repeater is after all, what Field Day is
>> supposed to be about (that and the great cookouts).
>> - Bill WB8ELk
>>
>>
>>
>> -----Original Message-----
>> From: Joe<nss@...<mailto:nss@...>>
>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>> Cc: wb8elk@...<mailto:wb8elk@...>
>> Sent: Sun, Jul 25, 2010 11:42 am
>> Subject: Re: [GPSL] Thank you all!
>>
>> I love the yearbook Idea.
>>
>> Would it be just the GPSL launches, for that year, or all
> launches
>> from everywhere?

>>
>> Field Day is a no go for me. while yes I may be one of the
>> original
>> groups, only being a year behind Bill on doing these flights, I
>> have
>> yet been able to go to a GPSL. A few close friends know why.
> But
>> even if it was possible, every Field Day since 1975 I have
> actually
>> done "Field Day" ya know the whole 99% HF transmitting thing.
>> it's a
>> Big thing around here. so i'm tied up for sure on that day and
> all
>> of
>> my chase and recovery teams are also tied up on that weekend. So
> as
>> far as a FD day launck NSS won't be able to.
>>
>> Now as Paul says
>>
>> " But we could coordinate our launches and great special QSL
> cards
>> for
>> everyone making a contact through a balloon on FD. It would be
>> nice
>> if we could talk to someone ar ARRL about this being a category
>> they
>> recognize. But if they don't want to, then sending out QSL
> cards
>> that
>> rode into near space may attract enough attention to makes some
>> contacts."
>>
>> Make some contacts is not a problem.. Well at least on our
> flights
>> that we open for general public use Like cross band repeaters.
>>
>> Our last cross band repeater flight 238 QSO's we made through
> the
>> balloon. Thats not bad. A QSO rate than many contesters would
>> love
>> to have he he he..
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com<http://www.idle-tyme.com/>
>>

>> On 7/25/2010 3:21 AM, wb8elk@...<mailto:wb8elk@...>
> wrote:
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown
>> during
>>> Field Day the past 3 years now and it's a blast and gets a lot
> of
>>> the local hams and public interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: L. Paul Verhage<nearsys@gmail.com>
>> <mailto:nearsys@...>
>>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
>>> Nothing is planned for 2013 at this time. I'm amazed that we
> have
>>> GPSL planned this far out. Normally, we wouldn't have decided
>> next
>>> year yet.
>>> That being said, 2012 is the 25th anniversary of modern ARHAB.
> We
>>> should make 2012 a special year. I'd like to see a year book
> with
>>> pictures and data from ev ery flight that year.
>>> I'd also like to see us start a FDSL. It wouldn't be located in
> a
>>> singe location like GPSL. But we could coordinate our launches
>> and
>>> great special QSL cards for everyone making a contact through a
>>> balloon on FD. It would be nice if we could talk to someone ar
>> ARRL
>>> about this being a category they recognize. But if they don't
>> want
>>> to, then sending out QSL cards that rode into near space may
>> attract
>>> enough attention to makes some contacts.
>>> Paul
>>>
>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<zclobes@gmail.com
>>> <mailto:zclobes@...>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the conversations,
> the

>>> kind words, and the comradery. Crys and I really enjoy this
> -
>>> she said it feels like a family reunion, and I have to
> agree.
>>> Honestly, hosting is a lot of hard work, but I thoroughly
>> enjoy
>>> it and wouldn't change a thing.
>>>
>>>
>>> I will try to get a survey put out in the next few days to
>>> solicit some input for future editions.
>>>
>>> And speaking of the future, I'm not sure where it's headed
>> over
>>> the next couple of years. I've heard Omaha, Pella Iowa,
>> Pueblo
>>> (EOSS), and of course I'd love to have you all back *any*
>>> time... (actually 2013 is probably bad for me. Is it sad to
>> be
>>> planning your life that far out?). I'm going to defer those
>>> questions to Paul for now.
>>>
>>>
>>> Please have a safe trip home, and keep an eye on the
> weather.
>> I
>>> don't anticipate anything too severe tonight, but keep your
>> eyes
>>> open.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org<http://www.projecttraveler.org/>
>>>
>>>
>>> P.S. I'd like to get a central photo sharing site put
>> together,
>>> I was thinking maybe Picasa. Does anyone have any
>> recommendations?
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>
>>

>>
>>
>>
>>
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7809. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:16:52 UTC
From: L. Paul Verhage
Topic: 4708 Message: 7809

Very good letter. Thanks for writing this.

If we don't get support, can we do it alone? Gioving NS QSL cards might be
the carrot to get FD stations involved.

Paul

On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@gmail.com> wrote:

> Hi Jeff,
>
> Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
> in the past 10 years, so, unlike some of the ham radio specialties like
> microwaves, its popularity hasn't been noticed by the general ham
> population.
>
> One index of ARHAB's growth might be the attendance at the 10th annual
> Great
> Plains Super Launch in Hutchinson KS last weekend, which brought in some 60
> attendees from 13 different groups around the US, two of which conducted
> their maiden launches last Saturday morning.
>
> Probably the most comprehensive on-line source of ARHAB stats is at
>
> http://www.arhab.org/
>
> Clicking on the ARHABlinks button reveals that there are at least 82
> balloon groups in the world who have signed up on that web site, with
> some 70 in the US and Canada and the rest flying internationally. And
> I know that this list is incomplete, since there are some groups I've
> heard from that don't appear on that list.
>
> Quite a departure from the handful of groups that were active when EOSS
> started up barely 20 years ago.
>
> Note that a good number of these groups are associated with colleges which
> serve as Elmers for bringing new hams into hobby. EOSS itself has fostered
> quite a few new hams.
>
> So what draws hams to this new specialty? It's hard to say - for some,
> myself
> included, it's the kick I get seeing students cheer upon seeing their
> experiments soar skyward towards the edge of space, and their enthusiasm
> upon
> seeing them return to earth. For others, it's the thrill of a flying
> foxhunt.

> One middle school teacher that EOSS flew for back in its salad days tagged
> it
> "The Poor Man's Space Program".
>
> Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering
> flight
> in 1987, was inspired by the USAF and NASA manned high altitude flights in
> the
> '60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did when he
> bailed out from 103,000 ft - but only vicariously via his ATV payload. Mike
> Morgan, N0MPM, put it quite well in observing that ARHAB crams more
> different
> aspects of ham radio into a single event than any other - homebrewed
> payloads,
> field operations from portable sites, directed nets, APRS tracking, DFing
> to
> the landing site, orienteering and multiband, multimode mobile operations,
> meterology, atmospheric physics and conducting some real science - not to
> mention Elmering. Paul Verhage KD4STH, who created the first GPSL event,
> has
> even written a how-to book available online at www.parallax.com.
>
> Now lets get to the ARHAB-borne repeater question: Most ARHAB flights reach
> at least 90,000 ft MSL before bursting. The radio horizon from that
> altitude
> is about 400 statute miles, thus enabling stations 800 miles apart to QSO.
> And it's been done! The 2-way "EBE" QSO record is held by ANSR's crossband
> repeater, where a ham in Los Angeles CA worked another in Las Cruces NM.
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> to that, EOSS held that record with a QSO between Garden City KS and
> Riverton
> WY - some 380 miles with just 180 mW ERP from the balloon 2m downlink. Two
> groups have even managed an "EBBE" QSO, using linked repeaters on separate
> balloons.
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> trans-
> Atlantic flight. But one group almost made it, launching from the east
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> and landing two days later just a few hundred miles from Ireland. See the
> records page:
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> http://www.arhab.org/ARHABrecords.htm
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> Although ARHAB can be conducted by solo hams, it's usually a group effort
> amongst several hams who specialize in designing and building payloads (No,
> Dorothy, there's no Payloads 'R Us), writing and running trajectory and
> real-time tracking and reporting software, preparing and launching flight
> strings, teaching student groups, working with the FAA, etc. EOSS, e.g.,
> has some 40 paid-up members, and about 14 of us convoyed to GPSL 2010 last

> week. My guess is that the typical balloon group has 5 active members,
> making for about 410 hams doing ARHAB regularly.
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> But that's not the point of the Field Day Super Launch idea. It wouldn't
> be an activity limited to ARHAB hams, just the same as Oscar ops aren't
> limited to AMSAT members. The FDSL repeaters would be open to any FD
> station, just like orbital satellites are today. The only difference is
> altitude and terrestrial footprint. And it doesn't take a fancy az-el
> array to work thru a balloon repeater; why, I QSOed a guy in KS from our
> launch site in N Colo using just my HT! It is written: "Line of sight
> is a magic thing."
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> All we're asking is just a piece of the consideration given satellite
> QSOs for FD. Real time GPS-based APRS reports of lat/lon and altitude
> are de riguer for all ARHAB flights nowadays - not DF triangulation and
> baro pressure telemetry like back in the salad days. So the FL300+
> restriction can be validated in real time.
>
> So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/27/2010 22:21, Jeff Ryan wrote:
> > Mike:
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> > How many Amateur Radio ballooning groups are there across the U.S.? HQ
> > initial reaction was lukewarm but I think it's a 'scale' issue-- they
> don't
> > think a balloon repeater would have a very large impact on Field Day...
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> > Jeff Ryan, KØRM
> > Colorado Section Manager
> > ARRL - The national association for Amateur Radio™
> > 9975 Wadsworth Pkwy K2-275
> > Westminster, CO 80021
> > 303-432-2886
> >
> >
> > -----Original Message-----
> > From: Mike Manes [mailto:mrmanes@...]
> > Sent: Monday, July 26, 2010 9:07 PM
> > To: Jeff Ryan
> > Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH TVNSP';
> 'Rob
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> > Subject: Re: [GPSL] Thank you all!
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> > Thanks, Jeff,
> >

> > Yeah, I picked FL300 to avoid letting any "cheaters" get points for
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> > from
> >> repeaters to be in a separate category between repeaters or satellites.
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> >> Subject: Fwd: Re: [GPSL] Thank you all!
> >>
> >> Hi Jeff,
> >>
> >> The EOSS contingent just returned from the 10th annual Great Plains
> Super
> >> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
> >> There were some 60 ham/balloonists a this years' event, with 13 launches
> >> from HUT airport.
> >>
> >> Amidst a chorus of kudos comes the thought of doing a Field Day Super
> > Launch
> >> with some sanction from the ARRL exempting the repeater rule for QSOs
> made
> >> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar

> birds.
> >>
> >> What do you think, and could you pass that thought up the line to HQ?
> >>
> >> 73 de Mike W5VSI
> >> CTO EOSS
> >>
> >> -------- Original Message --------
> >> Subject: Re: [GPSL] Thank you all!
> >> Date: Sun, 25 Jul 2010 17:21:57 -0500
> >> From: L. Paul Verhage<nearsys@...>
> >> Reply-To: GPSL@yahoogroups.com
> >> To: GPSL@yahoogroups.com
> >>
> >>
> >>
> >>
> >>
> >> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
> >> contact them. I'm not a member, so I don't think I'd be a good person
> to
> >> contact them.
> >> Is someone in the ARHAB community have a high level contact in ARRL?
> >> As I was saying, if getting ARRL onboard fails, we should be prepared to
> >> give
> >> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV
> from
> >> near space. We may not be a part of field day, but we have cookies.
> >> Paul
> >>
> >> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
> >> <mailto:zclobes@...>> wrote:
> >>
> >>
> >>
> >> The repeater contacts don't count towards the Field Day points.
> If
> > an
> >> exception could be made for such a special event, then I think
> there
> >> would
> >> be a lot more interest.
> >>
> >> It seems like a reasonable request, but it should probably be
> taken
> > up
> >> with the ARRL ASAP. I don't see them yet, but I'd image that FD
> > rules
> >> will probably be posted by the end of the year.
> >>

> >>
> >> Zack Clobes, W0ZC
> >> Project: Traveler
> >> www.projecttraveler.org<http://www.projecttraveler.org/>
> >>
> >>
> >> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
> >> <mailto:wb8elk@...>>
> >> wrote:
> >>
> >> As to the Field Day superlaunch....I flew a simplex repeater
> for
> > 2
> >> of
> >> the past 3 Field Days and we had a number of Field Day sites
> >> talking
> >> through the repeater across the Southeast and lower
> > Midwest...some
> >> were 600 miles or more apart. This would be something that we
> > could
> >> propose to the ARRL as a special contact event during Field
> Day,
> > if
> >> nothing more than QSL cards. Allowing remote FD sites to talk
> to
> >> each
> >> other via the balloon repeater is after all, what Field Day
> is
> >> supposed to be about (that and the great cookouts).
> >> - Bill WB8ELk
> >>
> >>
> >>
> >> -----Original Message-----
> >> From: Joe<nss@...<mailto:nss@mwt.net>>
> >> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
> >> Cc: wb8elk@...<mailto:wb8elk@...>
> >> Sent: Sun, Jul 25, 2010 11:42 am
> >> Subject: Re: [GPSL] Thank you all!
> >>
> >> I love the yearbook Idea.
> >>
> >> Would it be just the GPSL launches, for that year, or all
> > launches
> >> from everywhere?
> >>
> >> Field Day is a no go for me. while yes I may be one of the
> >> original
> >> groups, only being a year behind Bill on doing these flights,
> I

> >> have
> >> yet been able to go to a GPSL. A few close friends know why.
> > But
> >> even if it was possible, every Field Day since 1975 I have
> > actually
> >> done "Field Day" ya know the whole 99% HF transmitting
> thing.
> >> it's a
> >> Big thing around here. so i'm tied up for sure on that day
> and
> > all
> >> of
> >> my chase and recovery teams are also tied up on that weekend.
> So
> > as
> >> far as a FD day launck NSS won't be able to.
> >>
> >> Now as Paul says
> >>
> >> " But we could coordinate our launches and great special QSL
> > cards
> >> for
> >> everyone making a contact through a balloon on FD. It would
> be
> >> nice
> >> if we could talk to someone ar ARRL about this being a
> category
> >> they
> >> recognize. But if they don't want to, then sending out QSL
> > cards
> >> that
> >> rode into near space may attract enough attention to makes
> some
> >> contacts."
> >>
> >> Make some contacts is not a problem.. Well at least on our
> > flights
> >> that we open for general public use Like cross band
> repeaters.
> >>
> >> Our last cross band repeater flight 238 QSO's we made through
> > the
> >> balloon. Thats not bad. A QSO rate than many contesters
> would
> >> love
> >> to have he he he..
> >>
> >> Joe WB9SBD
> >>
> >> The Original Rolling Ball Clock

> >> Idle Tyme
> >> Idle-Tyme.com
> >> http://www.idle-tyme.com<http://www.idle-tyme.com/>
> >>
> >> On 7/25/2010 3:21 AM, wb8elk@...<mailto:wb8elk@...>
> > wrote:
> >>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown
> >> during
> >>> Field Day the past 3 years now and it's a blast and gets a
> lot
> > of
> >>> the local hams and public interested.
> >>> The 25th Anniversary Yearbook is a good idea.
> >>> - Bill WB8ELK
> >>>
> >>>
> >>> -----Original Message-----
> >>> From: L. Paul Verhage<nearsys@...>
> >> <mailto:nearsys@...>
> >>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
> >>> Sent: Sat, Jul 24, 2010 11:57 pm
> >>> Subject: Re: [GPSL] Thank you all!
> >>>
> >>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
> >>> Nothing is planned for 2013 at this time. I'm amazed that we
> > have
> >>> GPSL planned this far out. Normally, we wouldn't have
> decided
> >> next
> >>> year yet.
> >>> That being said, 2012 is the 25th anniversary of modern
> ARHAB.
> > We
> >>> should make 2012 a special year. I'd like to see a year book
> > with
> >>> pictures and data from ev ery flight that year.
> >>> I'd also like to see us start a FDSL. It wouldn't be located
> in
> > a
> >>> singe location like GPSL. But we could coordinate our
> launches
> >> and
> >>> great special QSL cards for everyone making a contact through
> a
> >>> balloon on FD. It would be nice if we could talk to someone
> ar
> >> ARRL
> >>> about this being a category they recognize. But if they
> don't
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> >>> to, then sending out QSL cards that rode into near space may
> >> attract
> >>> enough attention to makes some contacts.
> >>> Paul
> >>>
> >>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<
> zclobes@...
> >>> <mailto:zclobes@...>> wrote:
> >>>
> >>>
> >>>
> >>> Thank you all very much for attending, the conversations,
> > the
> >>> kind words, and the comradery. Crys and I really enjoy
> this
> > -
> >>> she said it feels like a family reunion, and I have to
> > agree.
> >>> Honestly, hosting is a lot of hard work, but I thoroughly
> >> enjoy
> >>> it and wouldn't change a thing.
> >>>
> >>>
> >>> I will try to get a survey put out in the next few days
> to
> >>> solicit some input for future editions.
> >>>
> >>> And speaking of the future, I'm not sure where it's
> headed
> >> over
> >>> the next couple of years. I've heard Omaha, Pella Iowa,
> >> Pueblo
> >>> (EOSS), and of course I'd love to have you all back *any*
> >>> time... (actually 2013 is probably bad for me. Is it sad
> to
> >> be
> >>> planning your life that far out?). I'm going to defer
> those
> >>> questions to Paul for now.
> >>>
> >>>
> >>> Please have a safe trip home, and keep an eye on the
> > weather.
> >> I
> >>> don't anticipate anything too severe tonight, but keep
> your
> >> eyes
> >>> open.
> >>>
> >>> Zack Clobes, W0ZC

> >>> Project: Traveler
> >>> www.projecttraveler.org<http://www.projecttraveler.org/>
> >>>
> >>>
> >>> P.S. I'd like to get a central photo sharing site put
> >> together,
> >>> I was thinking maybe Picasa. Does anyone have any
> >> recommendations?
> >>>
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> --
> >>> Onwards and Upwards,
> >>> Paul
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7810. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:42:59 UTC
From: Mark Conner
Topic: 4708 Message: 7810

Even without points, I think it'd be fun for the FD ops to play with crossband or simplex repeaters on their handhelds at Sunday morning's breakfast. I think the key is getting the word out well in advance, possibly standardizing some frequencies and launch times and getting details posted to a dedicated, easy-to-use website.

73 de Mark N9XTN

On Wed, Jul 28, 2010 at 13:16, L. Paul Verhage <nearsys@...> wrote:

>
>
> Very good letter. Thanks for writing this.
>
> If we don't get support, can we do it alone? Gioving NS QSL cards might be
> the carrot to get FD stations involved.
>
> Paul
>
> On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@...> wrote:
>
>> Hi Jeff,
>>
>> Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
>> in the past 10 years, so, unlike some of the ham radio specialties like
>> microwaves, its popularity hasn't been noticed by the general ham
>> population.
>>
>

7811. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:51:25 UTC
From: Joe
Topic: 7804 Message: 7811
Attachments: 1 described; binary payloads are missing from this source WARC

Wow, BZZZ he he he, Brings back memories! Our very first launch was neutral bouyant at 15 feet! it was just out or reach, we chased it for about 1/2 a mile then it crashed into a Barn! it finally got low enough to grab. and we added more gas and it left. But nothing is more frustrating than a payload floating at 10 to 15 feet drifting downwind on a almost dead calm day. it took like ten minutes to go that 1/2 mile as we are all jumping under it trying to grab it!

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/28/2010 12:48 PM, BASE wrote:
> Dear friends,
>
> I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:
>
> For Real Media player (27 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm
>
> For Quick Time player (15 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt
>
> Enjoy,
> Howard
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

>
>

7812. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 18:57:53 UTC
From: Roger Hammond
Topic: 4708 Message: 7812

Nicely written Mike.

Rog KC0MWM

On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@...> wrote:

> Hi Jeff,
>
> Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
> in the past 10 years, so, unlike some of the ham radio specialties like
> microwaves, its popularity hasn't been noticed by the general ham
> population.
>
> One index of ARHAB's growth might be the attendance at the 10th annual
> Great
> Plains Super Launch in Hutchinson KS last weekend, which brought in some 60
> attendees from 13 different groups around the US, two of which conducted
> their maiden launches last Saturday morning.
>
> Probably the most comprehensive on-line source of ARHAB stats is at
>
> http://www.arhab.org/
>
> Clicking on the ARHABlinks button reveals that there are at least 82
> balloon groups in the world who have signed up on that web site, with
> some 70 in the US and Canada and the rest flying internationally. And
> I know that this list is incomplete, since there are some groups I've
> heard from that don't appear on that list.
>
> Quite a departure from the handful of groups that were active when EOSS
> started up barely 20 years ago.
>
> Note that a good number of these groups are associated with colleges which
> serve as Elmers for bringing new hams into hobby. EOSS itself has fostered
> quite a few new hams.
>
> So what draws hams to this new specialty? It's hard to say - for some,
> myself
> included, it's the kick I get seeing students cheer upon seeing their
> experiments soar skyward towards the edge of space, and their enthusiasm
> upon
> seeing them return to earth. For others, it's the thrill of a flying
> foxhunt.
> One middle school teacher that EOSS flew for back in its salad days tagged
> it
> "The Poor Man's Space Program".

>
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> flight
> in 1987, was inspired by the USAF and NASA manned high altitude flights in
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> WY - some 380 miles with just 180 mW ERP from the balloon 2m downlink. Two
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> strings, teaching student groups, working with the FAA, etc. EOSS, e.g.,
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> >> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
> >> contact them. I'm not a member, so I don't think I'd be a good person
> to
> >> contact them.
> >> Is someone in the ARHAB community have a high level contact in ARRL?
> >> As I was saying, if getting ARRL onboard fails, we should be prepared to
> >> give
> >> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV
> from
> >> near space. We may not be a part of field day, but we have cookies.
> >> Paul
> >>
> >> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
> >> <mailto:zclobes@gmail.com>> wrote:
> >>
> >>
> >>
> >> The repeater contacts don't count towards the Field Day points.
> If
> > an
> >> exception could be made for such a special event, then I think
> there
> >> would
> >> be a lot more interest.
> >>
> >> It seems like a reasonable request, but it should probably be
> taken
> > up
> >> with the ARRL ASAP. I don't see them yet, but I'd image that FD
> > rules
> >> will probably be posted by the end of the year.
> >>
> >>
> >> Zack Clobes, W0ZC
> >> Project: Traveler

> >> www.projecttraveler.org<http://www.projecttraveler.org/>
> >>
> >>
> >> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
> >> <mailto:wb8elk@...>>
> >> wrote:
> >>
> >> As to the Field Day superlaunch....I flew a simplex repeater
> for
> > 2
> >> of
> >> the past 3 Field Days and we had a number of Field Day sites
> >> talking
> >> through the repeater across the Southeast and lower
> > Midwest...some
> >> were 600 miles or more apart. This would be something that we
> > could
> >> propose to the ARRL as a special contact event during Field
> Day,
> > if
> >> nothing more than QSL cards. Allowing remote FD sites to talk
> to
> >> each
> >> other via the balloon repeater is after all, what Field Day
> is
> >> supposed to be about (that and the great cookouts).
> >> - Bill WB8ELk
> >>
> >>
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> >> -----Original Message-----
> >> From: Joe<nss@mwt.net<mailto:nss@...>>
> >> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
> >> Cc: wb8elk@...<mailto:wb8elk@...>
> >> Sent: Sun, Jul 25, 2010 11:42 am
> >> Subject: Re: [GPSL] Thank you all!
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> >> I love the yearbook Idea.
> >>
> >> Would it be just the GPSL launches, for that year, or all
> > launches
> >> from everywhere?
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> >> Field Day is a no go for me. while yes I may be one of the
> >> original
> >> groups, only being a year behind Bill on doing these flights,
> I
> >> have
> >> yet been able to go to a GPSL. A few close friends know why.
> > But

> >> even if it was possible, every Field Day since 1975 I have
> > actually
> >> done "Field Day" ya know the whole 99% HF transmitting
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> >> Big thing around here. so i'm tied up for sure on that day
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> >> my chase and recovery teams are also tied up on that weekend.
> So
> > as
> >> far as a FD day launck NSS won't be able to.
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> >> Now as Paul says
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> >> " But we could coordinate our launches and great special QSL
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> >> everyone making a contact through a balloon on FD. It would
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> category
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> >> recognize. But if they don't want to, then sending out QSL
> > cards
> >> that
> >> rode into near space may attract enough attention to makes
> some
> >> contacts."
> >>
> >> Make some contacts is not a problem.. Well at least on our
> > flights
> >> that we open for general public use Like cross band
> repeaters.
> >>
> >> Our last cross band repeater flight 238 QSO's we made through
> > the
> >> balloon. Thats not bad. A QSO rate than many contesters
> would
> >> love
> >> to have he he he..
> >>
> >> Joe WB9SBD
> >>
> >> The Original Rolling Ball Clock
> >> Idle Tyme
> >> Idle-Tyme.com
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> >>> Field Day the past 3 years now and it's a blast and gets a
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> >>> The 25th Anniversary Yearbook is a good idea.
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> >>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
> >>> Sent: Sat, Jul 24, 2010 11:57 pm
> >>> Subject: Re: [GPSL] Thank you all!
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> >>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
> >>> Nothing is planned for 2013 at this time. I'm amazed that we
> > have
> >>> GPSL planned this far out. Normally, we wouldn't have
> decided
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> >>> That being said, 2012 is the 25th anniversary of modern
> ARHAB.
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> > with
> >>> pictures and data from ev ery flight that year.
> >>> I'd also like to see us start a FDSL. It wouldn't be located
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> >>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<
> zclobes@gmail.com
> >>> <mailto:zclobes@...>> wrote:
> >>>
> >>>
> >>>
> >>> Thank you all very much for attending, the conversations,
> > the
> >>> kind words, and the comradery. Crys and I really enjoy
> this
> > -
> >>> she said it feels like a family reunion, and I have to
> > agree.
> >>> Honestly, hosting is a lot of hard work, but I thoroughly
> >> enjoy
> >>> it and wouldn't change a thing.
> >>>
> >>>
> >>> I will try to get a survey put out in the next few days
> to
> >>> solicit some input for future editions.
> >>>
> >>> And speaking of the future, I'm not sure where it's
> headed
> >> over
> >>> the next couple of years. I've heard Omaha, Pella Iowa,
> >> Pueblo
> >>> (EOSS), and of course I'd love to have you all back *any*
> >>> time... (actually 2013 is probably bad for me. Is it sad
> to
> >> be
> >>> planning your life that far out?). I'm going to defer
> those
> >>> questions to Paul for now.
> >>>
> >>>
> >>> Please have a safe trip home, and keep an eye on the
> > weather.
> >> I
> >>> don't anticipate anything too severe tonight, but keep
> your
> >> eyes
> >>> open.
> >>>
> >>> Zack Clobes, W0ZC
> >>> Project: Traveler
> >>> www.projecttraveler.org<http://www.projecttraveler.org/>
> >>>

> >>>
> >>> P.S. I'd like to get a central photo sharing site put
> >> together,
> >>> I was thinking maybe Picasa. Does anyone have any
> >> recommendations?
> >>>
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> --
> >>> Onwards and Upwards,
> >>> Paul
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >
>
> --
> Mike Manes mrmanes@gmail.com Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

7813. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 19:37:35 UTC
From: dbowen1
Topic: 7804 Message: 7813

Ahh yes there's a video somewhere of me chasing a payload bouncing across a mudfield bouncing across the ground just inches from me in a stiff breeze, heading right for the interstate at the edge of the field. I eventually leaped and landed face first on it. One of the early UTARC Icarus flights, UX-7 probably. The problem came from grabbing the wrong size latex balloon, we had pre-calculated the helium lift force on paper.
Dan
K2VOL

On 28 Jul, 2010,at 02:51 PM, Joe <nss@...> wrote:

Wow, BZZZ he he he, Brings back memories! Our very first launch was neutral bouyant at 15 feet! it was just out or reach, we chased it for about 1/2 a mile then it crashed into a Barn! it finally got low enough to grab. and we added more gas and it left. But nothing is more frustrating than a payload floating at 10 to 15 feet drifting downwind on a almost dead calm day. it took like ten minutes to go that 1/2 mile as we are all jumping under it trying to grab it!

Joe WB9SBD
Near Space Sciences
<CLEAN-IDLE-TYME-LOGO-100-50.jpg>

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/28/2010 12:48 PM, BASE wrote:
Dear friends,

I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:

For Real Media player (27 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm

For Quick Time player (15 Megabytes):

http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt

Enjoy,
Howard

Yahoo! Groups Links

7814. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 19:44:16 UTC
From: Mike Manes
Topic: 4708 Message: 7814

Thanks, Roger,

I kinda thought that Jeff might be a good foil for this request.
He's a private pilot, and he's served as "Air 1" for our trackers
on a couple of flights.

I've been pretty disappointed on the coverage that ARHAB gets in QST,
compared to some of the other sub-specialties, e.g. microwave. Maybe
this will grab a bit of attention back in Newington ...

73 de Mike W5VSI

On 7/28/2010 12:57, Roger Hammond wrote:
>
>
> Nicely written Mike.
>
> Rog KC0MWM
>
>
>
> On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Jeff,
>
> Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
> in the past 10 years, so, unlike some of the ham radio specialties like
> microwaves, its popularity hasn't been noticed by the general ham population.
>
> One index of ARHAB's growth might be the attendance at the 10th annual Great
> Plains Super Launch in Hutchinson KS last weekend, which brought in some 60
> attendees from 13 different groups around the US, two of which conducted
> their maiden launches last Saturday morning.
>
> Probably the most comprehensive on-line source of ARHAB stats is at
>
> http://www.arhab.org/
>
> Clicking on the ARHABlinks button reveals that there are at least 82
> balloon groups in the world who have signed up on that web site, with
> some 70 in the US and Canada and the rest flying internationally. And
> I know that this list is incomplete, since there are some groups I've
> heard from that don't appear on that list.
>
> Quite a departure from the handful of groups that were active when EOSS

> started up barely 20 years ago.
>
> Note that a good number of these groups are associated with colleges which
> serve as Elmers for bringing new hams into hobby. EOSS itself has fostered
> quite a few new hams.
>
> So what draws hams to this new specialty? It's hard to say - for some, myself
> included, it's the kick I get seeing students cheer upon seeing their
> experiments soar skyward towards the edge of space, and their enthusiasm upon
> seeing them return to earth. For others, it's the thrill of a flying foxhunt.
> One middle school teacher that EOSS flew for back in its salad days tagged it
> "The Poor Man's Space Program".
>
> Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering flight
> in 1987, was inspired by the USAF and NASA manned high altitude flights in the
> '60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did when he
> bailed out from 103,000 ft - but only vicariously via his ATV payload. Mike
> Morgan, N0MPM, put it quite well in observing that ARHAB crams more different
> aspects of ham radio into a single event than any other - homebrewed payloads,
> field operations from portable sites, directed nets, APRS tracking, DFing to
> the landing site, orienteering and multiband, multimode mobile operations,
> meterology, atmospheric physics and conducting some real science - not to
> mention Elmering. Paul Verhage KD4STH, who created the first GPSL event, has
> even written a how-to book available online at www.parallax.com
> <http://www.parallax.com>.
>
> Now lets get to the ARHAB-borne repeater question: Most ARHAB flights reach
> at least 90,000 ft MSL before bursting. The radio horizon from that altitude
> is about 400 statute miles, thus enabling stations 800 miles apart to QSO.
> And it's been done! The 2-way "EBE" QSO record is held by ANSR's crossband
> repeater, where a ham in Los Angeles CA worked another in Las Cruces NM. Prior
> to that, EOSS held that record with a QSO between Garden City KS and Riverton
> WY - some 380 miles with just 180 mW ERP from the balloon 2m downlink. Two
> groups have even managed an "EBBE" QSO, using linked repeaters on separate
> balloons.
>
> Speaking of DX, one tempting goal that's evaded achievement so far is a trans-
> Atlantic flight. But one group almost made it, launching from the east coast
> and landing two days later just a few hundred miles from Ireland. See the
> records page:
>
> http://www.arhab.org/ARHABrecords.htm
>
> Although ARHAB can be conducted by solo hams, it's usually a group effort
> amongst several hams who specialize in designing and building payloads (No,
> Dorothy, there's no Payloads 'R Us), writing and running trajectory and
> real-time tracking and reporting software, preparing and launching flight
> strings, teaching student groups, working with the FAA, etc. EOSS, e.g.,
> has some 40 paid-up members, and about 14 of us convoyed to GPSL 2010 last
> week. My guess is that the typical balloon group has 5 active members,

> making for about 410 hams doing ARHAB regularly.
>
> But that's not the point of the Field Day Super Launch idea. It wouldn't
> be an activity limited to ARHAB hams, just the same as Oscar ops aren't
> limited to AMSAT members. The FDSL repeaters would be open to any FD
> station, just like orbital satellites are today. The only difference is
> altitude and terrestrial footprint. And it doesn't take a fancy az-el
> array to work thru a balloon repeater; why, I QSOed a guy in KS from our
> launch site in N Colo using just my HT! It is written: "Line of sight
> is a magic thing."
>
> All we're asking is just a piece of the consideration given satellite
> QSOs for FD. Real time GPS-based APRS reports of lat/lon and altitude
> are de riguer for all ARHAB flights nowadays - not DF triangulation and
> baro pressure telemetry like back in the salad days. So the FL300+
> restriction can be validated in real time.
>
> So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> On 7/27/2010 22:21, Jeff Ryan wrote:
> > Mike:
> >
> > How many Amateur Radio ballooning groups are there across the U.S.? HQ
> > initial reaction was lukewarm but I think it's a 'scale' issue-- they don't
> > think a balloon repeater would have a very large impact on Field Day...
> >
> > Jeff Ryan, KØRM
> > Colorado Section Manager
> > ARRL - The national association for Amateur Radio™
> > 9975 Wadsworth Pkwy K2-275
> > Westminster, CO 80021
> > 303-432-2886
> >
> >
> > -----Original Message-----
> > From: Mike Manes [mailto:mrmanes@... <mailto:mrmanes@...>]
> > Sent: Monday, July 26, 2010 9:07 PM
> > To: Jeff Ryan
> > Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH TVNSP';
> 'Rob
> > Wright KC0UUO'
> > Subject: Re: [GPSL] Thank you all!
> >
> > Thanks, Jeff,
> >
> > Yeah, I picked FL300 to avoid letting any "cheaters" get points for working
> > the Mt. Everest machine :=). Keep us posted, if you will.

> >
> > 73 de Mike W5VSI
> > CTO EOSS
> >
> > On 7/26/2010 20:37, Jeff Ryan wrote:
> >> Mike:
> >>
> >> I like it. Let me run it past the Field Day folks at HQ and see if
> > they're
> >> willing to write an exception. I like FL300 as it is 'so far removed'
> > from
> >> repeaters to be in a separate category between repeaters or satellites.
> >>
> >> I think this is a great idea!
> >>
> >> 73,
> >>
> >> Jeff Ryan, KØRM
> >> Colorado Section Manager
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> >> Westminster, CO 80021
> >> 303-432-2886
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> >> -----Original Message-----
> >> From: Mike Manes [mailto:mrmanes@... <mailto:mrmanes@...>]
> >> Sent: Monday, July 26, 2010 6:55 PM
> >> To: Jeff Ryan K0RM
> >> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP; Rob
> > Wright
> >> KC0UUO
> >> Subject: Fwd: Re: [GPSL] Thank you all!
> >>
> >> Hi Jeff,
> >>
> >> The EOSS contingent just returned from the 10th annual Great Plains Super
> >> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
> >> There were some 60 ham/balloonists a this years' event, with 13 launches
> >> from HUT airport.
> >>
> >> Amidst a chorus of kudos comes the thought of doing a Field Day Super
> > Launch
> >> with some sanction from the ARRL exempting the repeater rule for QSOs made
> >> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
> >>
> >> What do you think, and could you pass that thought up the line to HQ?
> >>
> >> 73 de Mike W5VSI
> >> CTO EOSS

> >>
> >> -------- Original Message --------
> >> Subject: Re: [GPSL] Thank you all!
> >> Date: Sun, 25 Jul 2010 17:21:57 -0500
> >> From: L. Paul Verhage<nearsys@gmail.com <mailto:nearsys@...>>
> >> Reply-To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> >> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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> >>>
> >>> Thank you all very much for attending, the conversations,
> > the
> >>> kind words, and the comradery. Crys and I really enjoy
> this

> > -
> >>> she said it feels like a family reunion, and I have to
> > agree.
> >>> Honestly, hosting is a lot of hard work, but I thoroughly
> >> enjoy
> >>> it and wouldn't change a thing.
> >>>
> >>>
> >>> I will try to get a survey put out in the next few days to
> >>> solicit some input for future editions.
> >>>
> >>> And speaking of the future, I'm not sure where it's headed
> >> over
> >>> the next couple of years. I've heard Omaha, Pella Iowa,
> >> Pueblo
> >>> (EOSS), and of course I'd love to have you all back *any*
> >>> time... (actually 2013 is probably bad for me. Is it
> sad to
> >> be
> >>> planning your life that far out?). I'm going to defer
> those
> >>> questions to Paul for now.
> >>>
> >>>
> >>> Please have a safe trip home, and keep an eye on the
> > weather.
> >> I
> >>> don't anticipate anything too severe tonight, but keep your
> >> eyes
> >>> open.
> >>>
> >>> Zack Clobes, W0ZC
> >>> Project: Traveler
> >>> www.projecttraveler.org
> <http://www.projecttraveler.org><http://www.projecttraveler.org/>
> >>>
> >>>
> >>> P.S. I'd like to get a central photo sharing site put
> >> together,
> >>> I was thinking maybe Picasa. Does anyone have any
> >> recommendations?
> >>>
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> --
> >>> Onwards and Upwards,
> >>> Paul

> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7815. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 20:10:41 UTC
From: Roger Hammond
Topic: 4708 Message: 7815

I'll keep my fingers crossed.

Rog

On Wed, Jul 28, 2010 at 2:44 PM, Mike Manes <mrmanes@...> wrote:

> Thanks, Roger,
>
> I kinda thought that Jeff might be a good foil for this request.
> He's a private pilot, and he's served as "Air 1" for our trackers
> on a couple of flights.
>
> I've been pretty disappointed on the coverage that ARHAB gets in QST,
> compared to some of the other sub-specialties, e.g. microwave. Maybe
> this will grab a bit of attention back in Newington ...
>
> 73 de Mike W5VSI
>
> On 7/28/2010 12:57, Roger Hammond wrote:
> >
> >
> > Nicely written Mike.
> >
> > Rog KC0MWM
> >
> >
> >
> > On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@...
> > <mailto:mrmanes@...>> wrote:
> >
> > Hi Jeff,
> >
> > Amateur Radio on High Altitude Balloons (ARHAB) has grown quite
> rapidly
> > in the past 10 years, so, unlike some of the ham radio specialties
> like
> > microwaves, its popularity hasn't been noticed by the general ham
> population.
> >
> > One index of ARHAB's growth might be the attendance at the 10th
> annual Great
> > Plains Super Launch in Hutchinson KS last weekend, which brought in
> some 60
> > attendees from 13 different groups around the US, two of which
> conducted
> > their maiden launches last Saturday morning.

> >
> > Probably the most comprehensive on-line source of ARHAB stats is at
> >
> > http://www.arhab.org/
> >
> > Clicking on the ARHABlinks button reveals that there are at least 82
> > balloon groups in the world who have signed up on that web site, with
> > some 70 in the US and Canada and the rest flying internationally. And
> > I know that this list is incomplete, since there are some groups I've
> > heard from that don't appear on that list.
> >
> > Quite a departure from the handful of groups that were active when
> EOSS
> > started up barely 20 years ago.
> >
> > Note that a good number of these groups are associated with colleges
> which
> > serve as Elmers for bringing new hams into hobby. EOSS itself has
> fostered
> > quite a few new hams.
> >
> > So what draws hams to this new specialty? It's hard to say - for
> some, myself
> > included, it's the kick I get seeing students cheer upon seeing their
> > experiments soar skyward towards the edge of space, and their
> enthusiasm upon
> > seeing them return to earth. For others, it's the thrill of a flying
> foxhunt.
> > One middle school teacher that EOSS flew for back in its salad days
> tagged it
> > "The Poor Man's Space Program".
> >
> > Bill Brown WB8ELK, honored as the grandpa of ARHAB with his
> pioneering flight
> > in 1987, was inspired by the USAF and NASA manned high altitude
> flights in the
> > '60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did
> when he
> > bailed out from 103,000 ft - but only vicariously via his ATV
> payload. Mike
> > Morgan, N0MPM, put it quite well in observing that ARHAB crams more
> different
> > aspects of ham radio into a single event than any other - homebrewed
> payloads,
> > field operations from portable sites, directed nets, APRS tracking,
> DFing to
> > the landing site, orienteering and multiband, multimode mobile
> operations,
> > meterology, atmospheric physics and conducting some real science -
> not to

> > mention Elmering. Paul Verhage KD4STH, who created the first GPSL
> event, has
> > even written a how-to book available online at www.parallax.com
> > <http://www.parallax.com>.
> >
> > Now lets get to the ARHAB-borne repeater question: Most ARHAB flights
> reach
> > at least 90,000 ft MSL before bursting. The radio horizon from that
> altitude
> > is about 400 statute miles, thus enabling stations 800 miles apart to
> QSO.
> > And it's been done! The 2-way "EBE" QSO record is held by ANSR's
> crossband
> > repeater, where a ham in Los Angeles CA worked another in Las Cruces
> NM. Prior
> > to that, EOSS held that record with a QSO between Garden City KS and
> Riverton
> > WY - some 380 miles with just 180 mW ERP from the balloon 2m
> downlink. Two
> > groups have even managed an "EBBE" QSO, using linked repeaters on
> separate
> > balloons.
> >
> > Speaking of DX, one tempting goal that's evaded achievement so far is
> a trans-
> > Atlantic flight. But one group almost made it, launching from the
> east coast
> > and landing two days later just a few hundred miles from Ireland.
> See the
> > records page:
> >
> > http://www.arhab.org/ARHABrecords.htm
> >
> > Although ARHAB can be conducted by solo hams, it's usually a group
> effort
> > amongst several hams who specialize in designing and building
> payloads (No,
> > Dorothy, there's no Payloads 'R Us), writing and running trajectory
> and
> > real-time tracking and reporting software, preparing and launching
> flight
> > strings, teaching student groups, working with the FAA, etc. EOSS,
> e.g.,
> > has some 40 paid-up members, and about 14 of us convoyed to GPSL 2010
> last
> > week. My guess is that the typical balloon group has 5 active
> members,
> > making for about 410 hams doing ARHAB regularly.
> >
> > But that's not the point of the Field Day Super Launch idea. It

> wouldn't
> > be an activity limited to ARHAB hams, just the same as Oscar ops
> aren't
> > limited to AMSAT members. The FDSL repeaters would be open to any FD
> > station, just like orbital satellites are today. The only difference
> is
> > altitude and terrestrial footprint. And it doesn't take a fancy
> az-el
> > array to work thru a balloon repeater; why, I QSOed a guy in KS from
> our
> > launch site in N Colo using just my HT! It is written: "Line of
> sight
> > is a magic thing."
> >
> > All we're asking is just a piece of the consideration given satellite
> > QSOs for FD. Real time GPS-based APRS reports of lat/lon and
> altitude
> > are de riguer for all ARHAB flights nowadays - not DF triangulation
> and
> > baro pressure telemetry like back in the salad days. So the FL300+
> > restriction can be validated in real time.
> >
> > So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.
> >
> > 73 de Mike W5VSI
> > CTO EOSS
> >
> > On 7/27/2010 22:21, Jeff Ryan wrote:
> > > Mike:
> > >
> > > How many Amateur Radio ballooning groups are there across the
> U.S.? HQ
> > > initial reaction was lukewarm but I think it's a 'scale' issue--
> they don't
> > > think a balloon repeater would have a very large impact on Field
> Day...
> > >
> > > Jeff Ryan, KØRM
> > > Colorado Section Manager
> > > ARRL - The national association for Amateur Radio™
> > > 9975 Wadsworth Pkwy K2-275
> > > Westminster, CO 80021
> > > 303-432-2886
> > >
> > >
> > > -----Original Message-----
> > > From: Mike Manes [mailto:mrmanes@... <mailto:
> mrmanes@...>]
> > > Sent: Monday, July 26, 2010 9:07 PM
> > > To: Jeff Ryan

> > > Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH
> TVNSP';
> > 'Rob
> > > Wright KC0UUO'
> > > Subject: Re: [GPSL] Thank you all!
> > >
> > > Thanks, Jeff,
> > >
> > > Yeah, I picked FL300 to avoid letting any "cheaters" get points
> for working
> > > the Mt. Everest machine :=). Keep us posted, if you will.
> > >
> > > 73 de Mike W5VSI
> > > CTO EOSS
> > >
> > > On 7/26/2010 20:37, Jeff Ryan wrote:
> > >> Mike:
> > >>
> > >> I like it. Let me run it past the Field Day folks at HQ and see
> if
> > > they're
> > >> willing to write an exception. I like FL300 as it is 'so far
> removed'
> > > from
> > >> repeaters to be in a separate category between repeaters or
> satellites.
> > >>
> > >> I think this is a great idea!
> > >>
> > >> 73,
> > >>
> > >> Jeff Ryan, KØRM
> > >> Colorado Section Manager
> > >> ARRL - The national association for Amateur Radio™
> > >> 9975 Wadsworth Pkwy K2-275
> > >> Westminster, CO 80021
> > >> 303-432-2886
> > >>
> > >>
> > >> -----Original Message-----
> > >> From: Mike Manes [mailto:mrmanes@... <mailto:
> mrmanes@...>]
> > >> Sent: Monday, July 26, 2010 6:55 PM
> > >> To: Jeff Ryan K0RM
> > >> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP;
> Rob
> > > Wright
> > >> KC0UUO
> > >> Subject: Fwd: Re: [GPSL] Thank you all!
> > >>

> > >> Hi Jeff,
> > >>
> > >> The EOSS contingent just returned from the 10th annual Great
> Plains Super
> > >> Launch where we launched and recovered EOSS-154 out of Hutchinson
> KS.
> > >> There were some 60 ham/balloonists a this years' event, with 13
> launches
> > >> from HUT airport.
> > >>
> > >> Amidst a chorus of kudos comes the thought of doing a Field Day
> Super
> > > Launch
> > >> with some sanction from the ARRL exempting the repeater rule for
> QSOs made
> > >> thru repeaters above, say, FL300 - not unlike QSOs made thru
> Oscar birds.
> > >>
> > >> What do you think, and could you pass that thought up the line to
> HQ?
> > >>
> > >> 73 de Mike W5VSI
> > >> CTO EOSS
> > >>
> > >> -------- Original Message --------
> > >> Subject: Re: [GPSL] Thank you all!
> > >> Date: Sun, 25 Jul 2010 17:21:57 -0500
> > >> From: L. Paul Verhage<nearsys@... <mailto:
> nearsys@...>>
> > >> Reply-To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > >> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >> Not only should we contact ARRL ASAP, someone who belongs to ARRL
> should
> > >> contact them. I'm not a member, so I don't think I'd be a good
> person to
> > >> contact them.
> > >> Is someone in the ARHAB community have a high level contact in
> ARRL?
> > >> As I was saying, if getting ARRL onboard fails, we should be
> prepared to
> > >> give
> > >> FD stations a reason to pay attention. Like QSL cards, SSTV, and
> ATV from
> > >> near space. We may not be a part of field day, but we have
> cookies.

> > >> Paul
> > >>
> > >> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
> > <mailto:zclobes@...>
> > >> <mailto:zclobes@... <mailto:zclobes@...>>> wrote:
> > >>
> > >>
> > >>
> > >> The repeater contacts don't count towards the Field Day
> points. If
> > > an
> > >> exception could be made for such a special event, then I
> think
> > there
> > >> would
> > >> be a lot more interest.
> > >>
> > >> It seems like a reasonable request, but it should probably
> be taken
> > > up
> > >> with the ARRL ASAP. I don't see them yet, but I'd image
> that FD
> > > rules
> > >> will probably be posted by the end of the year.
> > >>
> > >>
> > >> Zack Clobes, W0ZC
> > >> Project: Traveler
> > >> www.projecttraveler.org
> > <http://www.projecttraveler.org><http://www.projecttraveler.org/>
> > >>
> > >>
> > >> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
> > <mailto:wb8elk@...>
> > >> <mailto:wb8elk@... <mailto:wb8elk@...>>>
> > >> wrote:
> > >>
> > >> As to the Field Day superlaunch....I flew a simplex
> > repeater for
> > > 2
> > >> of
> > >> the past 3 Field Days and we had a number of Field Day
> sites
> > >> talking
> > >> through the repeater across the Southeast and lower
> > > Midwest...some
> > >> were 600 miles or more apart. This would be something
> that we
> > > could
> > >> propose to the ARRL as a special contact event during

> Field
> > Day,
> > > if
> > >> nothing more than QSL cards. Allowing remote FD sites
> to
> > talk to
> > >> each
> > >> other via the balloon repeater is after all, what
> Field Day is
> > >> supposed to be about (that and the great cookouts).
> > >> - Bill WB8ELk
> > >>
> > >>
> > >>
> > >> -----Original Message-----
> > >> From: Joe<nss@...
> > <mailto:nss@...><mailto:nss@... <mailto:nss@...>>>
> > >> To: GPSL@yahoogroups.com
> > <mailto:GPSL@yahoogroups.com><mailto:GPSL@yahoogroups.com
> > <mailto:GPSL@yahoogroups.com>>
> > >> Cc: wb8elk@...
> > <mailto:wb8elk@...><mailto:wb8elk@aol.com <mailto:wb8elk@...
> >>
> > >> Sent: Sun, Jul 25, 2010 11:42 am
> > >> Subject: Re: [GPSL] Thank you all!
> > >>
> > >> I love the yearbook Idea.
> > >>
> > >> Would it be just the GPSL launches, for that year, or
> all
> > > launches
> > >> from everywhere?
> > >>
> > >> Field Day is a no go for me. while yes I may be one
> of the
> > >> original
> > >> groups, only being a year behind Bill on doing these
> flights, I
> > >> have
> > >> yet been able to go to a GPSL. A few close friends
> know why.
> > > But
> > >> even if it was possible, every Field Day since 1975 I
> have
> > > actually
> > >> done "Field Day" ya know the whole 99% HF
> transmitting thing.
> > >> it's a
> > >> Big thing around here. so i'm tied up for sure on
> that day and

> > > all
> > >> of
> > >> my chase and recovery teams are also tied up on that
> > weekend. So
> > > as
> > >> far as a FD day launck NSS won't be able to.
> > >>
> > >> Now as Paul says
> > >>
> > >> " But we could coordinate our launches and great special QSL
> > > cards
> > >> for
> > >> everyone making a contact through a balloon on FD. It
> would be
> > >> nice
> > >> if we could talk to someone ar ARRL about this being a
> category
> > >> they
> > >> recognize. But if they don't want to, then sending
> out QSL
> > > cards
> > >> that
> > >> rode into near space may attract enough attention to
> makes some
> > >> contacts."
> > >>
> > >> Make some contacts is not a problem.. Well at least
> on our
> > > flights
> > >> that we open for general public use Like cross band
> repeaters.
> > >>
> > >> Our last cross band repeater flight 238 QSO's we made
> through
> > > the
> > >> balloon. Thats not bad. A QSO rate than many
> contesters would
> > >> love
> > >> to have he he he..
> > >>
> > >> Joe WB9SBD
> > >>
> > >> The Original Rolling Ball Clock
> > >> Idle Tyme
> > >> Idle-Tyme.com
> > >> http://www.idle-tyme.com<http://www.idle-tyme.com/>
> > >>
> > >> On 7/25/2010 3:21 AM, wb8elk@...
> > <mailto:wb8elk@...m><mailto:wb8elk@... <mailto:wb8elk@...
> >>

> > > wrote:
> > >>> Hi Paul....I'm all for a Field Day Superlaunch....I've
> flown
> > >> during
> > >>> Field Day the past 3 years now and it's a blast and
> gets a lot
> > > of
> > >>> the local hams and public interested.
> > >>> The 25th Anniversary Yearbook is a good idea.
> > >>> - Bill WB8ELK
> > >>>
> > >>>
> > >>> -----Original Message-----
> > >>> From: L. Paul Verhage<nearsys@...
> > <mailto:nearsys@...>>
> > >> <mailto:nearsys@... <mailto:nearsys@gmail.com>>
> > >>> To: GPSL@yahoogroups.com
> > <mailto:GPSL@yahoogroups.com><mailto:GPSL@yahoogroups.com
> > <mailto:GPSL@yahoogroups.com>>
> > >>> Sent: Sat, Jul 24, 2010 11:57 pm
> > >>> Subject: Re: [GPSL] Thank you all!
> > >>>
> > >>> Right now we have Pella, IA for 2011 and Omaha, NE for
> 2012.
> > >>> Nothing is planned for 2013 at this time. I'm amazed
> that we
> > > have
> > >>> GPSL planned this far out. Normally, we wouldn't have
> decided
> > >> next
> > >>> year yet.
> > >>> That being said, 2012 is the 25th anniversary of
> modern ARHAB.
> > > We
> > >>> should make 2012 a special year. I'd like to see a
> year book
> > > with
> > >>> pictures and data from ev ery flight that year.
> > >>> I'd also like to see us start a FDSL. It wouldn't be
> > located in
> > > a
> > >>> singe location like GPSL. But we could coordinate our
> launches
> > >> and
> > >>> great special QSL cards for everyone making a contact
> through a
> > >>> balloon on FD. It would be nice if we could talk to
> someone ar
> > >> ARRL
> > >>> about this being a category they recognize. But if

> they don't
> > >> want
> > >>> to, then sending out QSL cards that rode into near
> space may
> > >> attract
> > >>> enough attention to makes some contacts.
> > >>> Paul
> > >>>
> > >>> On Sat, Jul 24, 2010 at 9:54 PM, Zack
> > Clobes<zclobes@... <mailto:zclobes@...>
> > >>> <mailto:zclobes@... <mailto:zclobes@gmail.com>>> wrote:
> > >>>
> > >>>
> > >>>
> > >>> Thank you all very much for attending, the
> conversations,
> > > the
> > >>> kind words, and the comradery. Crys and I really
> enjoy
> > this
> > > -
> > >>> she said it feels like a family reunion, and I
> have to
> > > agree.
> > >>> Honestly, hosting is a lot of hard work, but I
> thoroughly
> > >> enjoy
> > >>> it and wouldn't change a thing.
> > >>>
> > >>>
> > >>> I will try to get a survey put out in the next few
> days to
> > >>> solicit some input for future editions.
> > >>>
> > >>> And speaking of the future, I'm not sure where
> it's headed
> > >> over
> > >>> the next couple of years. I've heard Omaha, Pella
> Iowa,
> > >> Pueblo
> > >>> (EOSS), and of course I'd love to have you all
> back *any*
> > >>> time... (actually 2013 is probably bad for me. Is
> it
> > sad to
> > >> be
> > >>> planning your life that far out?). I'm going to
> defer
> > those
> > >>> questions to Paul for now.

> > >>>
> > >>>
> > >>> Please have a safe trip home, and keep an eye on
> the
> > > weather.
> > >> I
> > >>> don't anticipate anything too severe tonight, but
> keep your
> > >> eyes
> > >>> open.
> > >>>
> > >>> Zack Clobes, W0ZC
> > >>> Project: Traveler
> > >>> www.projecttraveler.org
> > <http://www.projecttraveler.org><http://www.projecttraveler.org/>
> > >>>
> > >>>
> > >>> P.S. I'd like to get a central photo sharing site
> put
> > >> together,
> > >>> I was thinking maybe Picasa. Does anyone have any
> > >> recommendations?
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>> --
> > >>> Onwards and Upwards,
> > >>> Paul
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >>
> > >
> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
> >
> >
> > ------------------------------------
> >

> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
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> ------------------------------------
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> Yahoo! Groups Links
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>

7816. RE: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 20:11:48 UTC
From: Marty Griffin
Topic: 4708 Message: 7816

Awesome! Thanks for doing this!
- Marty

-----Original Message-----
From: Mike Manes [mailto:mrmanes@...]
Sent: Wednesday, July 28, 2010 12:05 PM
To: Jeff Ryan
Cc: GPSL Balloon Reflector
Subject: [GPSL] Field Day Super Launch

Hi Jeff,

Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly in the past 10 years, so, unlike some of the ham radio specialties like microwaves, its popularity hasn't been noticed by the general ham population.

One index of ARHAB's growth might be the attendance at the 10th annual Great Plains Super Launch in Hutchinson KS last weekend, which brought in some 60 attendees from 13 different groups around the US, two of which conducted their maiden launches last Saturday morning.

Probably the most comprehensive on-line source of ARHAB stats is at

http://www.arhab.org/

Clicking on the ARHABlinks button reveals that there are at least 82 balloon groups in the world who have signed up on that web site, with some 70 in the US and Canada and the rest flying internationally. And I know that this list is incomplete, since there are some groups I've heard from that don't appear on that list.

Quite a departure from the handful of groups that were active when EOSS started up barely 20 years ago.

Note that a good number of these groups are associated with colleges which serve as Elmers for bringing new hams into hobby. EOSS itself has fostered quite a few new hams.

So what draws hams to this new specialty? It's hard to say - for some, myself
included, it's the kick I get seeing students cheer upon seeing their experiments soar skyward towards the edge of space, and their enthusiasm upon
seeing them return to earth. For others, it's the thrill of a flying foxhunt.
One middle school teacher that EOSS flew for back in its salad days tagged

it
"The Poor Man's Space Program".

Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering flight
in 1987, was inspired by the USAF and NASA manned high altitude flights in the
'60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did when he bailed out from 103,000 ft - but only vicariously via his ATV payload. Mike Morgan, N0MPM, put it quite well in observing that ARHAB crams more different
aspects of ham radio into a single event than any other - homebrewed payloads,
field operations from portable sites, directed nets, APRS tracking, DFing to the landing site, orienteering and multiband, multimode mobile operations, meterology, atmospheric physics and conducting some real science - not to mention Elmering. Paul Verhage KD4STH, who created the first GPSL event, has even written a how-to book available online at www.parallax.com.

Now lets get to the ARHAB-borne repeater question: Most ARHAB flights reach at least 90,000 ft MSL before bursting. The radio horizon from that altitude
is about 400 statute miles, thus enabling stations 800 miles apart to QSO. And it's been done! The 2-way "EBE" QSO record is held by ANSR's crossband repeater, where a ham in Los Angeles CA worked another in Las Cruces NM. Prior
to that, EOSS held that record with a QSO between Garden City KS and Riverton
WY - some 380 miles with just 180 mW ERP from the balloon 2m downlink. Two groups have even managed an "EBBE" QSO, using linked repeaters on separate balloons.

Speaking of DX, one tempting goal that's evaded achievement so far is a trans-
Atlantic flight. But one group almost made it, launching from the east coast and landing two days later just a few hundred miles from Ireland. See the records page:

http://www.arhab.org/ARHABrecords.htm

Although ARHAB can be conducted by solo hams, it's usually a group effort amongst several hams who specialize in designing and building payloads (No, Dorothy, there's no Payloads 'R Us), writing and running trajectory and real-time tracking and reporting software, preparing and launching flight strings, teaching student groups, working with the FAA, etc. EOSS, e.g., has some 40 paid-up members, and about 14 of us convoyed to GPSL 2010 last week. My guess is that the typical balloon group has 5 active members, making for about 410 hams doing ARHAB regularly.

But that's not the point of the Field Day Super Launch idea. It wouldn't be an activity limited to ARHAB hams, just the same as Oscar ops aren't limited to AMSAT members. The FDSL repeaters would be open to any FD

station, just like orbital satellites are today. The only difference is altitude and terrestrial footprint. And it doesn't take a fancy az-el array to work thru a balloon repeater; why, I QSOed a guy in KS from our launch site in N Colo using just my HT! It is written: "Line of sight is a magic thing."

All we're asking is just a piece of the consideration given satellite QSOs for FD. Real time GPS-based APRS reports of lat/lon and altitude are de riguer for all ARHAB flights nowadays - not DF triangulation and baro pressure telemetry like back in the salad days. So the FL300+ restriction can be validated in real time.

So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.

73 de Mike W5VSI
CTO EOSS

On 7/27/2010 22:21, Jeff Ryan wrote:
> Mike:
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> How many Amateur Radio ballooning groups are there across the U.S.? HQ
> initial reaction was lukewarm but I think it's a 'scale' issue-- they
don't
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> Jeff Ryan, KØRM
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> 9975 Wadsworth Pkwy K2-275
> Westminster, CO 80021
> 303-432-2886
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> From: Mike Manes [mailto:mrmanes@gmail.com]
> Sent: Monday, July 26, 2010 9:07 PM
> To: Jeff Ryan
> Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH TVNSP';
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> Wright KC0UUO'
> Subject: Re: [GPSL] Thank you all!
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> Thanks, Jeff,
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> from
>> repeaters to be in a separate category between repeaters or satellites.
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>> The EOSS contingent just returned from the 10th annual Great Plains Super
>> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
>> There were some 60 ham/balloonists a this years' event, with 13 launches
>> from HUT airport.
>>
>> Amidst a chorus of kudos comes the thought of doing a Field Day Super
> Launch
>> with some sanction from the ARRL exempting the repeater rule for QSOs
made
>> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
>>
>> What do you think, and could you pass that thought up the line to HQ?
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>> 73 de Mike W5VSI
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>> Subject: Re: [GPSL] Thank you all!
>> Date: Sun, 25 Jul 2010 17:21:57 -0500
>> From: L. Paul Verhage<nearsys@...>
>> Reply-To: GPSL@yahoogroups.com
>> To: GPSL@yahoogroups.com
>>
>>
>>
>>
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>> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
>> contact them. I'm not a member, so I don't think I'd be a good person to
>> contact them.
>> Is someone in the ARHAB community have a high level contact in ARRL?
>> As I was saying, if getting ARRL onboard fails, we should be prepared to
>> give
>> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV
from
>> near space. We may not be a part of field day, but we have cookies.
>> Paul
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>> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
>> <mailto:zclobes@gmail.com>> wrote:
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>> The repeater contacts don't count towards the Field Day points.
If
> an
>> exception could be made for such a special event, then I think
there
>> would
>> be a lot more interest.
>>
>> It seems like a reasonable request, but it should probably be
taken
> up
>> with the ARRL ASAP. I don't see them yet, but I'd image that FD
> rules
>> will probably be posted by the end of the year.
>>
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>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org<http://www.projecttraveler.org/>
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>> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...

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>> As to the Field Day superlaunch....I flew a simplex repeater
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>> the past 3 Field Days and we had a number of Field Day sites
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>> through the repeater across the Southeast and lower
> Midwest...some
>> were 600 miles or more apart. This would be something that we
> could
>> propose to the ARRL as a special contact event during Field
Day,
> if
>> nothing more than QSL cards. Allowing remote FD sites to talk
to
>> each
>> other via the balloon repeater is after all, what Field Day is
>> supposed to be about (that and the great cookouts).
>> - Bill WB8ELk
>>
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>> From: Joe<nss@...<mailto:nss@...>>
>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>> Cc: wb8elk@...<mailto:wb8elk@...>
>> Sent: Sun, Jul 25, 2010 11:42 am
>> Subject: Re: [GPSL] Thank you all!
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>> I love the yearbook Idea.
>>
>> Would it be just the GPSL launches, for that year, or all
> launches
>> from everywhere?
>>
>> Field Day is a no go for me. while yes I may be one of the
>> original
>> groups, only being a year behind Bill on doing these flights,
I
>> have
>> yet been able to go to a GPSL. A few close friends know why.
> But
>> even if it was possible, every Field Day since 1975 I have
> actually
>> done "Field Day" ya know the whole 99% HF transmitting thing.
>> it's a

>> Big thing around here. so i'm tied up for sure on that day
and
> all
>> of
>> my chase and recovery teams are also tied up on that weekend.
So
> as
>> far as a FD day launck NSS won't be able to.
>>
>> Now as Paul says
>>
>> " But we could coordinate our launches and great special QSL
> cards
>> for
>> everyone making a contact through a balloon on FD. It would
be
>> nice
>> if we could talk to someone ar ARRL about this being a
category
>> they
>> recognize. But if they don't want to, then sending out QSL
> cards
>> that
>> rode into near space may attract enough attention to makes
some
>> contacts."
>>
>> Make some contacts is not a problem.. Well at least on our
> flights
>> that we open for general public use Like cross band repeaters.
>>
>> Our last cross band repeater flight 238 QSO's we made through
> the
>> balloon. Thats not bad. A QSO rate than many contesters
would
>> love
>> to have he he he..
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com<http://www.idle-tyme.com/>
>>
>> On 7/25/2010 3:21 AM, wb8elk@...<mailto:wb8elk@...>
> wrote:
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown
>> during

>>> Field Day the past 3 years now and it's a blast and gets a lot
> of
>>> the local hams and public interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
>>>
>>>
>>> -----Original Message-----
>>> From: L. Paul Verhage<nearsys@...>
>> <mailto:nearsys@...>
>>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
>>> Nothing is planned for 2013 at this time. I'm amazed that we
> have
>>> GPSL planned this far out. Normally, we wouldn't have decided
>> next
>>> year yet.
>>> That being said, 2012 is the 25th anniversary of modern ARHAB.
> We
>>> should make 2012 a special year. I'd like to see a year book
> with
>>> pictures and data from ev ery flight that year.
>>> I'd also like to see us start a FDSL. It wouldn't be located
in
> a
>>> singe location like GPSL. But we could coordinate our
launches
>> and
>>> great special QSL cards for everyone making a contact through
a
>>> balloon on FD. It would be nice if we could talk to someone
ar
>> ARRL
>>> about this being a category they recognize. But if they don't
>> want
>>> to, then sending out QSL cards that rode into near space may
>> attract
>>> enough attention to makes some contacts.
>>> Paul
>>>
>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<zclobes@...
>>> <mailto:zclobes@...>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the conversations,

> the
>>> kind words, and the comradery. Crys and I really enjoy
this
> -
>>> she said it feels like a family reunion, and I have to
> agree.
>>> Honestly, hosting is a lot of hard work, but I thoroughly
>> enjoy
>>> it and wouldn't change a thing.
>>>
>>>
>>> I will try to get a survey put out in the next few days to
>>> solicit some input for future editions.
>>>
>>> And speaking of the future, I'm not sure where it's headed
>> over
>>> the next couple of years. I've heard Omaha, Pella Iowa,
>> Pueblo
>>> (EOSS), and of course I'd love to have you all back *any*
>>> time... (actually 2013 is probably bad for me. Is it sad
to
>> be
>>> planning your life that far out?). I'm going to defer
those
>>> questions to Paul for now.
>>>
>>>
>>> Please have a safe trip home, and keep an eye on the
> weather.
>> I
>>> don't anticipate anything too severe tonight, but keep
your
>> eyes
>>> open.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org<http://www.projecttraveler.org/>
>>>
>>>
>>> P.S. I'd like to get a central photo sharing site put
>> together,
>>> I was thinking maybe Picasa. Does anyone have any
>> recommendations?
>>>
>>>
>>>
>>>
>>>

>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>
>>
>>
>>
>>
>>
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

7817. Added an HF receiver on GlobalTuners

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 20:17:37 UTC
From: dbowen1
Topic: 7817 Message: 7817

Hi All, I've gotten my rig here in Louisville, KY onto Globaltuners.com.

http://www.globaltuners.com/receiver.php?receiver=658

It's there primarily for balloon telemetry use. Feel free to ask anyone on there to let you have control if you have a balloon to listen to. I've made it clear on the radio page that balloons take priority. Also I may try to get DL-FLDIGI running on there directly when someone gets the remote interface to DL-FLDIGI completed.

Thanks,
Dan

7818. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 20:23:01 UTC
From: wb8elk@aol.com
Topic: 4708 Message: 7818

Mike,

Excellent writeup....the ARRL could use that as it stands for an ARHAB article in QST. I will have to say that in the two Field Day events that I flew a repeater that I received many excited emails from a number of Field Day sites in over eight states who had a blast working other Field Day sites via the balloon repeater. Plus many were able to access it with just a mobile rig and some even with a rubber duck from hundreds of miles away from the balloon. I know that the attendees at my local Huntsville, AL Field Day site were amazed to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m handheld. The thrill of working through a satellite without the need for an Az/El tracking array.

Since the BalloonSat is essentially a low altitude satellite, I would think that the same rules for contacts made via satellites could apply to a BalloonSat for Field Day. If nothing else, there is often special points for a mode....in past years, extra points were given for an ATV demo for example. I also have a few contacts in the ARRL and will send them an email as well about this possibility.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jul 28, 2010 2:44 pm
Subject: Re: [GPSL] Field Day Super Launch

Thanks, Roger,
I kinda thought that Jeff might be a good foil for this request.
e's a private pilot, and he's served as "Air 1" for our trackers
n a couple of flights.
I've been pretty disappointed on the coverage that ARHAB gets in QST,
ompared to some of the other sub-specialties, e.g. microwave. Maybe
his will grab a bit of attention back in Newington ...
73 de Mike W5VSI
On 7/28/2010 12:57, Roger Hammond wrote:

Nicely written Mike.

Rog KC0MWM

On Wed, Jul 28, 2010 at 1:05 PM, Mike Manes <mrmanes@...
<mailto:mrmanes@...>> wrote:

Hi Jeff,

Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
in the past 10 years, so, unlike some of the ham radio specialties like

microwaves, its popularity hasn't been noticed by the general ham
opulation.

One index of ARHAB's growth might be the attendance at the 10th annual
reat
Plains Super Launch in Hutchinson KS last weekend, which brought in some
0
attendees from 13 different groups around the US, two of which conducted
their maiden launches last Saturday morning.

Probably the most comprehensive on-line source of ARHAB stats is at

http://www.arhab.org/

Clicking on the ARHABlinks button reveals that there are at least 82
balloon groups in the world who have signed up on that web site, with
some 70 in the US and Canada and the rest flying internationally. And
I know that this list is incomplete, since there are some groups I've
heard from that don't appear on that list.

Quite a departure from the handful of groups that were active when EOSS
started up barely 20 years ago.

Note that a good number of these groups are associated with colleges which
serve as Elmers for bringing new hams into hobby. EOSS itself has
ostered
quite a few new hams.

So what draws hams to this new specialty? It's hard to say - for some,
yself
included, it's the kick I get seeing students cheer upon seeing their
experiments soar skyward towards the edge of space, and their enthusiasm
pon
seeing them return to earth. For others, it's the thrill of a flying
oxhunt.
One middle school teacher that EOSS flew for back in its salad days tagged
t
"The Poor Man's Space Program".

Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering
light
in 1987, was inspired by the USAF and NASA manned high altitude flights in
he
'60's and hoped to experience what Capt. Joe Kittenger, N4HDP, did when he
bailed out from 103,000 ft - but only vicariously via his ATV payload.
ike
Morgan, N0MPM, put it quite well in observing that ARHAB crams more
ifferent
aspects of ham radio into a single event than any other - homebrewed
ayloads,
field operations from portable sites, directed nets, APRS tracking, DFing
o

the landing site, orienteering and multiband, multimode mobile operations, meterology, atmospheric physics and conducting some real science - not to mention Elmering. Paul Verhage KD4STH, who created the first GPSL event, as
even written a how-to book available online at www.parallax.com <http://www.parallax.com>.

Now lets get to the ARHAB-borne repeater question: Most ARHAB flights each
at least 90,000 ft MSL before bursting. The radio horizon from that ltitude
is about 400 statute miles, thus enabling stations 800 miles apart to QSO. And it's been done! The 2-way "EBE" QSO record is held by ANSR's rossband
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>> that we open for general public use Like cross band
epeaters.
>>
>> Our last cross band repeater flight 238 QSO's we made
hrough
> the
>> balloon. Thats not bad. A QSO rate than many contesters
ould
>> love
>> to have he he he..
>>
>> Joe WB9SBD

>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com<http://www.idle-tyme.com/>
>>
>> On 7/25/2010 3:21 AM, wb8elk@...
<mailto:wb8elk@...><mailto:wb8elk@... <mailto:wb8elk@...>>
> wrote:
>>> Hi Paul....I'm all for a Field Day Superlaunch....I've
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>> during
>>> Field Day the past 3 years now and it's a blast and gets a
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> of
>>> the local hams and public interested.
>>> The 25th Anniversary Yearbook is a good idea.
>>> - Bill WB8ELK
>>>
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>>> -----Original Message-----
>>> From: L. Paul Verhage<nearsys@...
<mailto:nearsys@...>>
>> <mailto:nearsys@... <mailto:nearsys@...>>
>>> To: GPSL@yahoogroups.com
<mailto:GPSL@yahoogroups.com><mailto:GPSL@yahoogroups.com
<mailto:GPSL@yahoogroups.com>>
>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>> Subject: Re: [GPSL] Thank you all!
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>>> Right now we have Pella, IA for 2011 and Omaha, NE for
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>>> Nothing is planned for 2013 at this time. I'm amazed that
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>>> GPSL planned this far out. Normally, we wouldn't have
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>>> That being said, 2012 is the 25th anniversary of modern
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>>> I'd also like to see us start a FDSL. It wouldn't be
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>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack
Clobes<zclobes@... <mailto:zclobes@gmail.com>
>>> <mailto:zclobes@... <mailto:zclobes@...>>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the
onversations,
> the
>>> kind words, and the comradery. Crys and I really enjoy
this
> -
>>> she said it feels like a family reunion, and I have to
> agree.
>>> Honestly, hosting is a lot of hard work, but I
horoughly
>> enjoy
>>> it and wouldn't change a thing.
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>>> I will try to get a survey put out in the next few days
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>>> And speaking of the future, I'm not sure where it's
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>>> the next couple of years. I've heard Omaha, Pella
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>> Pueblo
>>> (EOSS), and of course I'd love to have you all back
any*
>>> time... (actually 2013 is probably bad for me. Is it
sad to

>> be
>>> planning your life that far out?). I'm going to defer
those
>>> questions to Paul for now.
>>>
>>>
>>> Please have a safe trip home, and keep an eye on the
> weather.
>> I
>>> don't anticipate anything too severe tonight, but keep
our
>> eyes
>>> open.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org
<http://www.projecttraveler.org><http://www.projecttraveler.org/>
>>>
>>>
>>> P.S. I'd like to get a central photo sharing site put
>> together,
>>> I was thinking maybe Picasa. Does anyone have any
>> recommendations?
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>
>>
>>
>>
>>
>>
>>
>>
>

--
Mike Manes mrmanes@gmail.com <mailto:mrmanes@...> Tel:
03-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

--
ike Manes mrmanes@... Tel: 303-979-4899
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Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

7819. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-28 21:35:16 UTC
From: natewac@aol.com
Topic: 4708 Message: 7819

I hope this was sent to either QST or CQ. If it wasn't it should have been. It was wrote very well and should get the recognition that it deserves.
Again very nice.

N8WAC,Tony

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: Jeff Ryan <k0rm@...>
Cc: GPSL Balloon Reflector <GPSL@yahoogroups.com>
Sent: Wed, Jul 28, 2010 2:05 pm
Subject: [GPSL] Field Day Super Launch

Hi Jeff,
Amateur Radio on High Altitude Balloons (ARHAB) has grown quite rapidly
n the past 10 years, so, unlike some of the ham radio specialties like
icrowaves, its popularity hasn't been noticed by the general ham population.
One index of ARHAB's growth might be the attendance at the 10th annual Great
lains Super Launch in Hutchinson KS last weekend, which brought in some 60
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Clicking on the ARHABlinks button reveals that there are at least 82
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Quite a departure from the handful of groups that were active when EOSS
tarted up barely 20 years ago.
Note that a good number of these groups are associated with colleges which
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So what draws hams to this new specialty? It's hard to say - for some, myself
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Bill Brown WB8ELK, honored as the grandpa of ARHAB with his pioneering flight
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Now lets get to the ARHAB-borne repeater question: Most ARHAB flights reach
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s about 400 statute miles, thus enabling stations 800 miles apart to QSO.
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aro pressure telemetry like back in the salad days. So the FL300+
estriction can be validated in real time.
So, there's my pitch to the choir. Hope you can QNQ it to HQ, Jeff.
73 de Mike W5VSI
TO EOSS
On 7/27/2010 22:21, Jeff Ryan wrote:
Mike:

How many Amateur Radio ballooning groups are there across the U.S.? HQ
initial reaction was lukewarm but I think it's a 'scale' issue-- they don't
think a balloon repeater would have a very large impact on Field Day...

Jeff Ryan, KØRM
Colorado Section Manager

ARRL - The national association for Amateur Radio™
9975 Wadsworth Pkwy K2-275
Westminster, CO 80021
303-432-2886

-----Original Message-----
From: Mike Manes [mailto:mrmanes@...]
Sent: Monday, July 26, 2010 9:07 PM
To: Jeff Ryan
Cc: 'Nick Hanks N0LP'; 'Zack Clobes W0ZC'; 'Paul Verhage KD4SDH TVNSP'; 'Rob Wright KC0UUO'
Subject: Re: [GPSL] Thank you all!

Thanks, Jeff,

Yeah, I picked FL300 to avoid letting any "cheaters" get points for working the Mt. Everest machine :=). Keep us posted, if you will.

73 de Mike W5VSI
CTO EOSS

On 7/26/2010 20:37, Jeff Ryan wrote:
> Mike:
>
> I like it. Let me run it past the Field Day folks at HQ and see if they're
> willing to write an exception. I like FL300 as it is 'so far removed' from
> repeaters to be in a separate category between repeaters or satellites.
>
> I think this is a great idea!
>
> 73,
>
> Jeff Ryan, KØRM
> Colorado Section Manager
> ARRL - The national association for Amateur Radio™
> 9975 Wadsworth Pkwy K2-275
> Westminster, CO 80021
> 303-432-2886
>
>
> -----Original Message-----
> From: Mike Manes [mailto:mrmanes@...]
> Sent: Monday, July 26, 2010 6:55 PM
> To: Jeff Ryan K0RM
> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP; Rob Wright
> KC0UUO
> Subject: Fwd: Re: [GPSL] Thank you all!
>

> Hi Jeff,
>
> The EOSS contingent just returned from the 10th annual Great Plains Super
> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
> There were some 60 ham/balloonists a this years' event, with 13 launches
> from HUT airport.
>
> Amidst a chorus of kudos comes the thought of doing a Field Day Super
Launch
> with some sanction from the ARRL exempting the repeater rule for QSOs made
> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
>
> What do you think, and could you pass that thought up the line to HQ?
>
> 73 de Mike W5VSI
> CTO EOSS
>
> -------- Original Message --------
> Subject: Re: [GPSL] Thank you all!
> Date: Sun, 25 Jul 2010 17:21:57 -0500
> From: L. Paul Verhage<nearsys@...>
> Reply-To: GPSL@yahoogroups.com
> To: GPSL@yahoogroups.com
>
>
>
>
>
> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
> contact them. I'm not a member, so I don't think I'd be a good person to
> contact them.
> Is someone in the ARHAB community have a high level contact in ARRL?
> As I was saying, if getting ARRL onboard fails, we should be prepared to
> give
> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from
> near space. We may not be a part of field day, but we have cookies.
> Paul
>
> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@...
> <mailto:zclobes@...>> wrote:
>
>
>
> The repeater contacts don't count towards the Field Day points. If
an
> exception could be made for such a special event, then I think there
> would
> be a lot more interest.
>
> It seems like a reasonable request, but it should probably be taken

up
> with the ARRL ASAP. I don't see them yet, but I'd image that FD
rules
> will probably be posted by the end of the year.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org<http://www.projecttraveler.org/>
>
>
> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@...
> <mailto:wb8elk@...>>
> wrote:
>
> As to the Field Day superlaunch....I flew a simplex repeater for
2
> of
> the past 3 Field Days and we had a number of Field Day sites
> talking
> through the repeater across the Southeast and lower
Midwest...some
> were 600 miles or more apart. This would be something that we
could
> propose to the ARRL as a special contact event during Field Day,
if
> nothing more than QSL cards. Allowing remote FD sites to talk to
> each
> other via the balloon repeater is after all, what Field Day is
> supposed to be about (that and the great cookouts).
> - Bill WB8ELk
>
>
>
> -----Original Message-----
> From: Joe<nss@...<mailto:nss@...>>
> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
> Cc: wb8elk@...<mailto:wb8elk@aol.com>
> Sent: Sun, Jul 25, 2010 11:42 am
> Subject: Re: [GPSL] Thank you all!
>
> I love the yearbook Idea.
>
> Would it be just the GPSL launches, for that year, or all
launches
> from everywhere?
>
> Field Day is a no go for me. while yes I may be one of the
> original
> groups, only being a year behind Bill on doing these flights, I

> have
> yet been able to go to a GPSL. A few close friends know why.
But
> even if it was possible, every Field Day since 1975 I have
actually
> done "Field Day" ya know the whole 99% HF transmitting thing.
> it's a
> Big thing around here. so i'm tied up for sure on that day and
all
> of
> my chase and recovery teams are also tied up on that weekend. So
as
> far as a FD day launck NSS won't be able to.
>
> Now as Paul says
>
> " But we could coordinate our launches and great special QSL
cards
> for
> everyone making a contact through a balloon on FD. It would be
> nice
> if we could talk to someone ar ARRL about this being a category
> they
> recognize. But if they don't want to, then sending out QSL
cards
> that
> rode into near space may attract enough attention to makes some
> contacts."
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> Make some contacts is not a problem.. Well at least on our
flights
> that we open for general public use Like cross band repeaters.
>
> Our last cross band repeater flight 238 QSO's we made through
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> balloon. Thats not bad. A QSO rate than many contesters would
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> Joe WB9SBD
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> The Original Rolling Ball Clock
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> http://www.idle-tyme.com<http://www.idle-tyme.com/>
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>> From: L. Paul Verhage<nearsys@...>
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>> To: GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>> Sent: Sat, Jul 24, 2010 11:57 pm
>> Subject: Re: [GPSL] Thank you all!
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>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
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>> GPSL planned this far out. Normally, we wouldn't have decided
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>> year yet.
>> That being said, 2012 is the 25th anniversary of modern ARHAB.
We
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>> I'd also like to see us start a FDSL. It wouldn't be located in
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>> singe location like GPSL. But we could coordinate our launches
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>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<zclobes@...
>> <mailto:zclobes@...m>> wrote:
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>> Thank you all very much for attending, the conversations,
the
>> kind words, and the comradery. Crys and I really enjoy this
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>> she said it feels like a family reunion, and I have to
agree.

>> Honestly, hosting is a lot of hard work, but I thoroughly
> enjoy
>> it and wouldn't change a thing.
>>
>>
>> I will try to get a survey put out in the next few days to
>> solicit some input for future editions.
>>
>> And speaking of the future, I'm not sure where it's headed
> over
>> the next couple of years. I've heard Omaha, Pella Iowa,
> Pueblo
>> (EOSS), and of course I'd love to have you all back *any*
>> time... (actually 2013 is probably bad for me. Is it sad to
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>>
>> --
>> Onwards and Upwards,
>> Paul
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>

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ike Manes mrmanes@... Tel: 303-979-4899
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Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

7820. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 00:02:37 UTC
From: Mike Manes
Topic: 4708 Message: 7820

Thanks, Tony,

As the thread indicates, it was sent to Jeff K0RM, the ARRL Colo Section Mgr, who has actively supported EOSS over the years. He's taking the FDSL idea to the contest honchos at HQ.

Maybe it'll elevate some interest up there so we can get some publicity in QST?

73 de Mike W5VSI

On 7/28/2010 15:35, natewac@... wrote:
>
>
> I hope this was sent to either QST or CQ. If it wasn't it should have been. It
> was wrote very well and should get the recognition that it deserves.
> Again very nice.
> N8WAC,Tony
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> From: Mike Manes <mrmanes@...m>
> To: Jeff Ryan <k0rm@...>
> Cc: GPSL Balloon Reflector <GPSL@yahoogroups.com>
> Sent: Wed, Jul 28, 2010 2:05 pm
> Subject: [GPSL] Field Day Super Launch
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> Hi Jeff,
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> One index of ARHAB's growth might be the attendance at the 10th annual Great
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> attendees from 13 different groups around the US, two of which conducted
> their maiden launches last Saturday morning.
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> Clicking on the ARHABlinks button reveals that there are at least 82
> balloon groups in the world who have signed up on that web site, with
> some 70 in the US and Canada and the rest flying internationally. And

> I know that this list is incomplete, since there are some groups I've
> heard from that don't appear on that list.
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> Quite a departure from the handful of groups that were active when EOSS
> started up barely 20 years ago.
>
> Note that a good number of these groups are associated with colleges which
> serve as Elmers for bringing new hams into hobby. EOSS itself has fostered
> quite a few new hams.
>
> So what draws hams to this new specialty? It's hard to say - for some, myself
> included, it's the kick I get seeing students cheer upon seeing their
> experiments soar skyward towards the edge of space, and their enthusiasm upon
> seeing them return to earth. For others, it's the thrill of a flying foxhunt.
> One middle school teacher that EOSS flew for back in its salad days tagged it
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>> Wright KC0UUO'
>> Subject: Re: [GPSL] Thank you all!
>>
>> Thanks, Jeff,

>>
>> Yeah, I picked FL300 to avoid letting any "cheaters" get points for working
>> the Mt. Everest machine :=). Keep us posted, if you will.
>>
>> 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 7/26/2010 20:37, Jeff Ryan wrote:
>>> Mike:
>>>
>>> I like it. Let me run it past the Field Day folks at HQ and see if
>> they're
>>> willing to write an exception. I like FL300 as it is 'so far removed'
>> from
>>> repeaters to be in a separate category between repeaters or satellites.
>>>
>>> I think this is a great idea!
>>>
>>> 73,
>>>
>>> Jeff Ryan, KØRM
>>> Colorado Section Manager
>>> ARRL - The national association for Amateur Radio™
>>> 9975 Wadsworth Pkwy K2-275
>>> Westminster, CO 80021
>>> 303-432-2886
>>>
>>>
>>> -----Original Message-----
>>> From: Mike Manes [mailto:mrmanes@... <mailto:mrmanes@...?>]
>>> Sent: Monday, July 26, 2010 6:55 PM
>>> To: Jeff Ryan K0RM
>>> Cc: Nick Hanks N0LP; Zack Clobes W0ZC; Paul Verhage KD4SDH TVNSP; Rob
>> Wright
>>> KC0UUO
>>> Subject: Fwd: Re: [GPSL] Thank you all!
>>>
>>> Hi Jeff,
>>>
>>> The EOSS contingent just returned from the 10th annual Great Plains Super
>>> Launch where we launched and recovered EOSS-154 out of Hutchinson KS.
>>> There were some 60 ham/balloonists a this years' event, with 13 launches
>>> from HUT airport.
>>>
>>> Amidst a chorus of kudos comes the thought of doing a Field Day Super
>> Launch
>>> with some sanction from the ARRL exempting the repeater rule for QSOs made
>>> thru repeaters above, say, FL300 - not unlike QSOs made thru Oscar birds.
>>>
>>> What do you think, and could you pass that thought up the line to HQ?

>>>
>>> 73 de Mike W5VSI
>>> CTO EOSS
>>>
>>> -------- Original Message --------
>>> Subject: Re: [GPSL] Thank you all!
>>> Date: Sun, 25 Jul 2010 17:21:57 -0500
>>> From: L. Paul Verhage<nearsys@... <mailto:nearsys@...>>
>>> Reply-To:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>> To:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>>
>>>
>>>
>>>
>>>
>>> Not only should we contact ARRL ASAP, someone who belongs to ARRL should
>>> contact them. I'm not a member, so I don't think I'd be a good person to
>>> contact them.
>>> Is someone in the ARHAB community have a high level contact in ARRL?
>>> As I was saying, if getting ARRL onboard fails, we should be prepared to
>>> give
>>> FD stations a reason to pay attention. Like QSL cards, SSTV, and ATV from
>>> near space. We may not be a part of field day, but we have cookies.
>>> Paul
>>>
>>> On Sun, Jul 25, 2010 at 2:08 PM, Zack Clobes<zclobes@... <mailto:zclobes@...>
>>> <mailto:zclobes@... <mailto:zclobes@...?>>> wrote:
>>>
>>>
>>>
>>> The repeater contacts don't count towards the Field Day points. If
>> an
>>> exception could be made for such a special event, then I think there
>>> would
>>> be a lot more interest.
>>>
>>> It seems like a reasonable request, but it should probably be taken
>> up
>>> with the ARRL ASAP. I don't see them yet, but I'd image that FD
>> rules
>>> will probably be posted by the end of the year.
>>>
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org<http://www.projecttraveler.org/
<http://www.projecttraveler.org%3chttp//www.projecttraveler.org/>>
>>>
>>>
>>> On Sun, Jul 25, 2010 at 2:01 PM,<wb8elk@... <mailto:wb8elk@...>

>>> <mailto:wb8elk@... <mailto:wb8elk@...?>>>
>>> wrote:
>>>
>>> As to the Field Day superlaunch....I flew a simplex repeater for
>> 2
>>> of
>>> the past 3 Field Days and we had a number of Field Day sites
>>> talking
>>> through the repeater across the Southeast and lower
>> Midwest...some
>>> were 600 miles or more apart. This would be something that we
>> could
>>> propose to the ARRL as a special contact event during Field Day,
>> if
>>> nothing more than QSL cards. Allowing remote FD sites to talk to
>>> each
>>> other via the balloon repeater is after all, what Field Day is
>>> supposed to be about (that and the great cookouts).
>>> - Bill WB8ELk
>>>
>>>
>>>
>>> -----Original Message-----
>>> From: Joe<nss@... <mailto:nss@...><mailto:nss@... <mailto:nss@...?>>>
>>> To:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com><mailto:GPSL@yahoogroups.com
<mailto:GPSL@yahoogroups.com?>>
>>> Cc:wb8elk@... <mailto:wb8elk@...><mailto:wb8elk@... <mailto:wb8elk@...?>>
>>> Sent: Sun, Jul 25, 2010 11:42 am
>>> Subject: Re: [GPSL] Thank you all!
>>>
>>> I love the yearbook Idea.
>>>
>>> Would it be just the GPSL launches, for that year, or all
>> launches
>>> from everywhere?
>>>
>>> Field Day is a no go for me. while yes I may be one of the
>>> original
>>> groups, only being a year behind Bill on doing these flights, I
>>> have
>>> yet been able to go to a GPSL. A few close friends know why.
>> But
>>> even if it was possible, every Field Day since 1975 I have
>> actually
>>> done "Field Day" ya know the whole 99% HF transmitting thing.
>>> it's a
>>> Big thing around here. so i'm tied up for sure on that day and
>> all
>>> of
>>> my chase and recovery teams are also tied up on that weekend. So

>> as
>>> far as a FD day launck NSS won't be able to.
>>>
>>> Now as Paul says
>>>
>>> " But we could coordinate our launches and great special QSL
>> cards
>>> for
>>> everyone making a contact through a balloon on FD. It would be
>>> nice
>>> if we could talk to someone ar ARRL about this being a category
>>> they
>>> recognize. But if they don't want to, then sending out QSL
>> cards
>>> that
>>> rode into near space may attract enough attention to makes some
>>> contacts."
>>>
>>> Make some contacts is not a problem.. Well at least on our
>> flights
>>> that we open for general public use Like cross band repeaters.
>>>
>>> Our last cross band repeater flight 238 QSO's we made through
>> the
>>> balloon. Thats not bad. A QSO rate than many contesters would
>>> love
>>> to have he he he..
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com<http://www.idle-tyme.com/
<http://www.idle-tyme.com%3chttp//www.idle-tyme.com/>>
>>>
>>> On 7/25/2010 3:21 AM,wb8elk@... <mailto:wb8elk@...><mailto:wb8elk@...
<mailto:wb8elk@...?>>
>> wrote:
>>>> Hi Paul....I'm all for a Field Day Superlaunch....I've flown
>>> during
>>>> Field Day the past 3 years now and it's a blast and gets a lot
>> of
>>>> the local hams and public interested.
>>>> The 25th Anniversary Yearbook is a good idea.
>>>> - Bill WB8ELK
>>>>
>>>>
>>>> -----Original Message-----
>>>> From: L. Paul Verhage<nearsys@... <mailto:nearsys@...>>

>>> <mailto:nearsys@... <mailto:nearsys@...?>>
>>>> To:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com><mailto:GPSL@yahoogroups.com
<mailto:GPSL@yahoogroups.com?>>
>>>> Sent: Sat, Jul 24, 2010 11:57 pm
>>>> Subject: Re: [GPSL] Thank you all!
>>>>
>>>> Right now we have Pella, IA for 2011 and Omaha, NE for 2012.
>>>> Nothing is planned for 2013 at this time. I'm amazed that we
>> have
>>>> GPSL planned this far out. Normally, we wouldn't have decided
>>> next
>>>> year yet.
>>>> That being said, 2012 is the 25th anniversary of modern ARHAB.
>> We
>>>> should make 2012 a special year. I'd like to see a year book
>> with
>>>> pictures and data from ev ery flight that year.
>>>> I'd also like to see us start a FDSL. It wouldn't be located in
>> a
>>>> singe location like GPSL. But we could coordinate our launches
>>> and
>>>> great special QSL cards for everyone making a contact through a
>>>> balloon on FD. It would be nice if we could talk to someone ar
>>> ARRL
>>>> about this being a category they recognize. But if they don't
>>> want
>>>> to, then sending out QSL cards that rode into near space may
>>> attract
>>>> enough attention to makes some contacts.
>>>> Paul
>>>>
>>>> On Sat, Jul 24, 2010 at 9:54 PM, Zack Clobes<zclobes@... <mailto:zclobes@...>
>>>> <mailto:zclobes@... <mailto:zclobes@...?>>> wrote:
>>>>
>>>>
>>>>
>>>> Thank you all very much for attending, the conversations,
>> the
>>>> kind words, and the comradery. Crys and I really enjoy this
>> -
>>>> she said it feels like a family reunion, and I have to
>> agree.
>>>> Honestly, hosting is a lot of hard work, but I thoroughly
>>> enjoy
>>>> it and wouldn't change a thing.
>>>>
>>>>
>>>> I will try to get a survey put out in the next few days to
>>>> solicit some input for future editions.
>>>>

>>>> And speaking of the future, I'm not sure where it's headed
>>> over
>>>> the next couple of years. I've heard Omaha, Pella Iowa,
>>> Pueblo
>>>> (EOSS), and of course I'd love to have you all back *any*
>>>> time... (actually 2013 is probably bad for me. Is it sad to
>>> be
>>>> planning your life that far out?). I'm going to defer those
>>>> questions to Paul for now.
>>>>
>>>>
>>>> Please have a safe trip home, and keep an eye on the
>> weather.
>>> I
>>>> don't anticipate anything too severe tonight, but keep your
>>> eyes
>>>> open.
>>>>
>>>> Zack Clobes, W0ZC
>>>> Project: Traveler
>>>> www.projecttraveler.org<http://www.projecttraveler.org/
<http://www.projecttraveler.org%3chttp//www.projecttraveler.org/>>
>>>>
>>>>
>>>> P.S. I'd like to get a central photo sharing site put
>>> together,
>>>> I was thinking maybe Picasa. Does anyone have any
>>> recommendations?
>>>>
>>>>
>>>>
>>>>
>>>>
>>>>
>>>> --
>>>> Onwards and Upwards,
>>>> Paul
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>
>
> --
> Mike Manesmrmanes@... <mailto:mrmanes@gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein

>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7821. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 00:12:44 UTC
From: Mike Manes
Topic: 4708 Message: 7821

Thanks, Bill,

That means a lot coming from the grand-daddy of ARHAB!

I've cc'ed Jeff K0RM, who may be interested in your experiences with
previous FD repeater flights.

73 de Mike W5VSI

On 7/28/2010 14:23, wb8elk@... wrote:
>
>
> Mike,
> Excellent writeup....the ARRL could use that as it stands for an ARHAB article
> in QST. I will have to say that in the two Field Day events that I flew a
> repeater that I received many excited emails from a number of Field Day sites
> in over eight states who had a blast working other Field Day sites via the
> balloon repeater. Plus many were able to access it with just a mobile rig and
> some even with a rubber duck from hundreds of miles away from the balloon. I
> know that the attendees at my local Huntsville, AL Field Day site were amazed
> to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m
> handheld. The thrill of working through a satellite without the need for an
> Az/El tracking array.
> Since the BalloonSat is essentially a low altitude satellite, I would think
> that the same rules for contacts made via satellites could apply to a
> BalloonSat for Field Day. If nothing else, there is often special points for a
> mode....in past years, extra points were given for an ATV demo for example. I
> also have a few contacts in the ARRL and will send them an email as well about
> this possibility.
> - Bill WB8ELK

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7822. Re: [GPSL] BASE 46 video for your entertainment

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 00:48:39 UTC
From: Mike Manes
Topic: 7804 Message: 7822

Yipes! The sound of 60 Hz HV arcing sends shivers up this old spine!
EOSS has landed across power lines 3 times, but only one of 'em produced
any damage:

http://www.eoss.org/eoss090/eoss090_k0jlz_touch_ex.wmv

There was NOTHING salvageable from that poor, little DF beacon - not
even the BNC antenna connector :=(.

73 de Mike W5VSI

On 7/28/2010 11:48, BASE wrote:
> Dear friends,
>
> I have processed the video from BASE 46, our flight on July 15, and produced a short segment showing the encounters with the power lines and the trees. They can be accessed from the BASE webpages, but here are the links:
>
> For Real Media player (27 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortrm.rm
>
> For Quick Time player (15 Megabytes):
>
> http://www.depauw.edu/acad/physics/base/images/base46shortqt.qt
>
> Enjoy,
> Howard
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7823. Re: [GPSL] Thank you all!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 00:57:14 UTC
From: Mike Manes
Topic: 7726 Message: 7823

Congratulations on a successful maiden flight, guys! Hope you have
many, many more out there in MO.

73 de Mike W5VSI
EOSS

On 7/26/2010 21:34, ccccrnr@... wrote:
> Thanks to all at GPSL 2010 for making it a great time from all of us at RoboMO
> - Jacob, Jerry, Libby, Nick, Mike, and myself
>
> It was great!!
>
> Our groups 1st launch had highest packet on the way up of 62,457 followed by 6
> straight packets of "NO FIX" data and our 1st packet on the way down (15
> minutes later) was 65,181 our highest good packet...Near Space
> We crashed in a horse and mule field ~ 20 or more miles from from our launch site.
>
> Thanks to All and hope to see you in the future,
> Carlton Corbitt - KI4NHK
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@...>
> To: GPSL <GPSL@yahoogroups.com>
> Sent: Sun, Jul 25, 2010 9:21 am
> Subject: Re: [GPSL] Thank you all!
>
> You can go to www.projecttraveler.org <http://www.projecttraveler.org> and
> click on the Photo Gallery to see one in Picasa.
>
> Zack
>
> On Sun, Jul 25, 2010 at 11:11 AM, Joe <nss@... <mailto:nss@...>> wrote:
>
> Really on the casual browsing?
>
> I found it the opposite to be true.
>
> Now that I'm on DSL it's Ok, but when i was on Dialup, if someone ever
> sent me to a Picassa page or i should say a link to one, I'd just never
> ever go because the bandwidth required to look around was soo bad that
> nothing was ever seen. At least with the yahoo group format everything was
> small thumbnails and if one image looked interesting, then you could
> bother to download the large size, but you diddn't have to do them all.

>
> Unless picassa is different now and a dialup person isn't killed like it
> used to be.
>
> anyone send me a new Picassa site?
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com>
>
> On 7/25/2010 10:42 AM, Mark Conner wrote:
>> Picasa is great for integrating albums into your own websites. It's also
>> a lot better for casual browsing. Just make sure the album is public so
>> no Google signin is required.
>> As much as I like my new Droid, there's still no substitute for a real
>> keyboard (home ISP still down).
>> Mark
>>> On Jul 24, 2010 10:17 PM, "Zack Clobes" <zclobes@...
>>> <mailto:zclobes@...>> wrote:
>>>
>>>
>>>
>>> Thank you all very much for attending, the conversations, the kind
>>> words, and the comradery. Crys and I really enjoy this - she said it
>>> feels like a family reunion, and I have to agree. Honestly, hosting is
>>> a lot of hard work, but I thoroughly enjoy it and wouldn't change a thing.
>>>
>>>
>>> I will try to get a survey put out in the next few days to solicit some
>>> input for future editions.
>>>
>>> And speaking of the future, I'm not sure where it's headed over the
>>> next couple of years. I've heard Omaha, Pella Iowa, Pueblo (EOSS), and
>>> of course I'd love to have you all back *any* time... (actually 2013 is
>>> probably bad for me. Is it sad to be planning your life that far out?).
>>> I'm going to defer those questions to Paul for now.
>>>
>>>
>>> Please have a safe trip home, and keep an eye on the weather. I don't
>>> anticipate anything too severe tonight, but keep your eyes open.
>>>
>>> Zack Clobes, W0ZC
>>> Project: Traveler
>>> www.projecttraveler.org <http://www.projecttraveler.org>
>>>
>>>

>>> P.S. I'd like to get a central photo sharing site put together, I was
>>> thinking maybe Picasa. Does anyone have any recommendations?
>>>
>>>
>>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7824. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 01:42:05 UTC
From: Jerry Gable
Topic: 4708 Message: 7824

Out of curiosity, has anyone tried balloon to balloon contact at a distance? If you could coordinate the launch you might be able to hop several balloons @ 5-600 miles between balloons.

Jerry

From: Mike Manes <mrmanes@...>
To: wb8elk@...
Cc: GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
Sent: Wed, July 28, 2010 5:12:44 PM
Subject: Re: [GPSL] Field Day Super Launch

Thanks, Bill,

That means a lot coming from the grand-daddy of ARHAB!

I've cc'ed Jeff K0RM, who may be interested in your experiences with previous FD repeater flights.

73 de Mike W5VSI

On 7/28/2010 14:23, wb8elk@... wrote:
>
>
> Mike,
> Excellent writeup....the ARRL could use that as it stands for an ARHAB article
> in QST. I will have to say that in the two Field Day events that I flew a
> repeater that I received many excited emails from a number of Field Day sites
> in over eight states who had a blast working other Field Day sites via the
> balloon repeater. Plus many were able to access it with just a mobile rig and
> some even with a rubber duck from hundreds of miles away from the balloon. I
> know that the attendees at my local Huntsville, AL Field Day site were amazed
> to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m
> handheld. The thrill of working through a satellite without the need for an
> Az/El tracking array.
> Since the BalloonSat is essentially a low altitude satellite, I would think
> that the same rules for contacts made via satellites could apply to a
> BalloonSat for Field Day. If nothing else, there is often special points for a
> mode....in past years, extra points were given for an ATV demo for example. I
> also have a few contacts in the ARRL and will send them an email as well about
> this possibility.
> - Bill WB8ELK

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

7825. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 02:00:19 UTC
From: HarryM
Topic: 4708 Message: 7825
Attachments: 1 described; binary payloads are missing from this source WARC

Here's a pic from ORB looking at the BASE-47 balloon with Cheney Lake in the background.

ORB was taking a pic every 30 sec, the first 8 were on the ground and this was the 47th pic. That would put it @ 19 min into the flight & ORB was @ 21k-22k ft. at that time.

73 Harry KC5TRB

7826. Re: [GPSL] Field Day Super Launch [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 02:09:55 UTC
From: HarryM
Topic: 7826 Message: 7826

Click on "ORIGINAL" just above the "COPY MOVE DELETE" to see the big pic.

73 Harry

> Here's a pic from ORB looking at the BASE-47 balloon with Cheney Lake in the background.

7827. Re: [GPSL] Field Day Super Launch [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 02:22:35 UTC
From: Mark Conner
Topic: 4708 Message: 7827

Congratulations on an awesome picture, Harry!

73 de Mark N9XTN

On Wed, Jul 28, 2010 at 21:00, HarryM <hhm_74115@...> wrote:

> □
> [Attachment(s) <#12a1beed05177be3_TopText> from HarryM included below]
>
> Here's a pic from ORB looking at the BASE-47 balloon with Cheney Lake in
> the background.
> **
> ORB was taking a pic every 30 sec, the first 8 were on the ground and this
> was the 47th pic. That would put it @ 19 min into the flight & ORB was @
> 21k-22k ft. at that time.
>
> 73 Harry KC5TRB
>
>
>
>
> Attachment(s) from HarryM
>
> 1 of 1 Photo(s)
> [image: Img_0047m.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/814902530/item/63025526/view>
> Img_0047m.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/814902530/item/63025526/view>
>
>
>

7828. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 02:34:22 UTC
From: Joe
Topic: 4708 Message: 7828
Attachments: 1 described; binary payloads are missing from this source WARC

I've been trying for years to schedule something like this, but no one
else seems to want to try or have the right equipment. to go both ways.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/28/2010 8:42 PM, Jerry Gable wrote:
>
>
> Out of curiosity, has anyone tried balloon to balloon contact at a
> distance? If you could coordinate the launch you might be able to hop
> several balloons @ 5-600 miles between balloons.
>
> Jerry
>
>
> ---
> *From:* Mike Manes <mrmanes@...>
> *To:* wb8elk@...
> *Cc:* GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
> *Sent:* Wed, July 28, 2010 5:12:44 PM
> *Subject:* Re: [GPSL] Field Day Super Launch
>
> Thanks, Bill,
>
> That means a lot coming from the grand-daddy of ARHAB!
>
> I've cc'ed Jeff K0RM, who may be interested in your experiences with
> previous FD repeater flights.
>
> 73 de Mike W5VSI
>
> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
> >
> >
> > Mike,
> > Excellent writeup....the ARRL could use that as it stands for an
> ARHAB article
> > in QST. I will have to say that in the two Field Day events that I
> flew a

> > repeater that I received many excited emails from a number of Field
> Day sites
> > in over eight states who had a blast working other Field Day sites
> via the
> > balloon repeater. Plus many were able to access it with just a
> mobile rig and
> > some even with a rubber duck from hundreds of miles away from the
> balloon. I
> > know that the attendees at my local Huntsville, AL Field Day site
> were amazed
> > to hear me talking to Field Day sites in Illinois, Indiana and Ohio
> with my 2m
> > handheld. The thrill of working through a satellite without the need
> for an
> > Az/El tracking array.
> > Since the BalloonSat is essentially a low altitude satellite, I
> would think
> > that the same rules for contacts made via satellites could apply to a
> > BalloonSat for Field Day. If nothing else, there is often special
> points for a
> > mode....in past years, extra points were given for an ATV demo for
> example. I
> > also have a few contacts in the ARRL and will send them an email as
> well about
> > this possibility.
> > - Bill WB8ELK
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>

7829. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 03:29:01 UTC
From: Mike Manes
Topic: 4708 Message: 7829

It takes some careful frequency coordination to prevent creating a huge
stratospheric audio oscillator.

On 7/28/2010 20:34, Joe wrote:
> I've been trying for years to schedule something like this, but no one else
> seems to want to try or have the right equipment. to go both ways.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 7/28/2010 8:42 PM, Jerry Gable wrote:
>> Out of curiosity, has anyone tried balloon to balloon contact at a
>> distance? If you could coordinate the launch you might be able to hop
>> several balloons @ 5-600 miles between balloons.
>>
>> Jerry
>>
>>
>> ---
>> *From:* Mike Manes <mrmanes@...>
>> *To:* wb8elk@...
>> *Cc:* GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
>> *Sent:* Wed, July 28, 2010 5:12:44 PM
>> *Subject:* Re: [GPSL] Field Day Super Launch
>>
>> Thanks, Bill,
>>
>> That means a lot coming from the grand-daddy of ARHAB!
>>
>> I've cc'ed Jeff K0RM, who may be interested in your experiences with
>> previous FD repeater flights.
>>
>> 73 de Mike W5VSI
>>
>> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
>> >
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>> > Mike,
>> > Excellent writeup....the ARRL could use that as it stands for an ARHAB article
>> > in QST. I will have to say that in the two Field Day events that I flew a

>> > repeater that I received many excited emails from a number of Field Day sites
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>> > balloon repeater. Plus many were able to access it with just a mobile rig and
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>> > know that the attendees at my local Huntsville, AL Field Day site were amazed
>> > to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m
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>> > Az/El tracking array.
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>> > BalloonSat for Field Day. If nothing else, there is often special points for a
>> > mode....in past years, extra points were given for an ATV demo for example. I
>> > also have a few contacts in the ARRL and will send them an email as well about
>> > this possibility.
>> > - Bill WB8ELK
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7830. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 03:45:18 UTC
From: Joe
Topic: 4708 Message: 7830
Attachments: 1 described; binary payloads are missing from this source WARC

Got that right! he he he, what a mess that would be!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/28/2010 10:29 PM, Mike Manes wrote:
> It takes some careful frequency coordination to prevent creating a huge
> stratospheric audio oscillator.
>
> On 7/28/2010 20:34, Joe wrote:
>> I've been trying for years to schedule something like this, but no
>> one else
>> seems to want to try or have the right equipment. to go both ways.
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>> Joe WB9SBD
>> Near Space Sciences KB9KHO
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>> The Original Rolling Ball Clock
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>> http://www.idle-tyme.com
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>> On 7/28/2010 8:42 PM, Jerry Gable wrote:
>>> Out of curiosity, has anyone tried balloon to balloon contact at a
>>> distance? If you could coordinate the launch you might be able to hop
>>> several balloons @ 5-600 miles between balloons.
>>>
>>> Jerry
>>>
>>>
>>> ---
>>>
>>> *From:* Mike Manes <mrmanes@...>
>>> *To:* wb8elk@...
>>> *Cc:* GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
>>> *Sent:* Wed, July 28, 2010 5:12:44 PM
>>> *Subject:* Re: [GPSL] Field Day Super Launch
>>>
>>> Thanks, Bill,
>>>
>>> That means a lot coming from the grand-daddy of ARHAB!

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>>> I've cc'ed Jeff K0RM, who may be interested in your experiences with
>>> previous FD repeater flights.
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>>> 73 de Mike W5VSI
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>>> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
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>>> > Mike,
>>> > Excellent writeup....the ARRL could use that as it stands for an
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>>> Field Day sites
>>> > in over eight states who had a blast working other Field Day sites
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>>> > balloon repeater. Plus many were able to access it with just a
>>> mobile rig and
>>> > some even with a rubber duck from hundreds of miles away from the
>>> balloon. I
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>>> Ohio with my 2m
>>> > handheld. The thrill of working through a satellite without the
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>>> > Az/El tracking array.
>>> > Since the BalloonSat is essentially a low altitude satellite, I
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>>> > this possibility.
>>> > - Bill WB8ELK
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>>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
>>> 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
>>>
>

7831. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 05:33:08 UTC
From: wb8elk@aol.com
Topic: 4708 Message: 7831

Hi Jerry,

I've done a 400 mile path between balloons...was able to hear Chuck Crist's Wintrax balloon in Indiana back in the early 90's from a balloon I flew with a repeater here in Alabama.

- Bill WB8ELK

-----Original Message-----
From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Wed, Jul 28, 2010 8:42 pm
Subject: Re: [GPSL] Field Day Super Launch

Out of curiosity, has anyone tried balloon to balloon contact at a distance? If you could coordinate the launch you might be able to hop several balloons @ 5-600 miles between balloons.

Jerry

From: Mike Manes <mrmanes@...>
To: wb8elk@...
Cc: GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
Sent: Wed, July 28, 2010 5:12:44 PM
Subject: Re: [GPSL] Field Day Super Launch

Thanks, Bill,

That means a lot coming from the grand-daddy of ARHAB!

I've cc'ed Jeff K0RM, who may be interested in your experiences with
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73 de Mike W5VSI

On 7/28/2010 14:23, wb8elk@... wrote:
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> Excellent writeup....the ARRL could use that as it stands for an ARHAB article
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> know that the attendees at my local Huntsville, AL Field Day site were amazed
> to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m
> handheld. The thrill of working through a satellite without the need for an
> Az/El tracking array.

> Since the BalloonSat is essentially a low altitude satellite, I would think
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> BalloonSat for Field Day. If nothing else, there is often special points for a
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> this possibility.
> - Bill WB8ELK

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

=

7832. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 05:38:25 UTC
From: wb8elk@aol.com
Topic: 4708 Message: 7832

Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one way only....I was listening to his balloon on 2m and repeating it down on 70cm....it was weak copy and only could hear briefly as we were a bit off in launch timing.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Joe <nss@...t>; Jerry Gable <jerrygable@...>
Sent: Wed, Jul 28, 2010 10:29 pm
Subject: Re: [GPSL] Field Day Super Launch

It takes some careful frequency coordination to prevent creating a huge stratospheric audio oscillator.

On 7/28/2010 20:34, Joe wrote:
> I've been trying for years to schedule something like this, but no one else
> seems to want to try or have the right equipment. to go both ways.
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> Joe WB9SBD
> Near Space Sciences KB9KHO
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>> several balloons @ 5-600 miles between balloons.
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>> Jerry
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>>
>> --
>> *From:* Mike Manes <mrmanes@...>
>> *To:* wb8elk@...
>> *Cc:* GPSL@yahoogroups.com; Jeff Ryan K0RM <k0rm@...>
>> *Sent:* Wed, July 28, 2010 5:12:44 PM
>> *Subject:* Re: [GPSL] Field Day Super Launch
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>> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk%40aol.com>; wrote:
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>> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7833. Re: [GPSL] Multi-balloon networks

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 10:40:38 UTC
From: BASE
Topic: 4708 Message: 7833

BASE has participated in three balloon to balloon mesh network communication flights. However, they all involved the 900 MHz frequency domain. BASE 1 linked with a Taylor flight in November 2006 over a distance of about 70 miles. In November 2007, BASE 16 was in the first HALO project flew with support from Indiana Space Grant. Our balloon was linked to balloons from Taylor, Valparaiso, and Cedarville universities, covering all of Indiana and some of Ohio and Illinois. Iowa State, Minnesota, and the College of St. Catherines (MN) completed a second network over their home states, but the two networks did not talk to each other. Finally, on April 4, 2009, on BASE 35, we were in the second HALO project that involved 15 simultaneous flights. (Participating schools were: Ball State (IN), Bryan College(TN), Cedarville (OH), College of St. Catherine(MN), DePaul (IL), DePauw (IN), Iowa State, Medgar Evers College (NY), Minnesota, Norfolk State (VA), University of Southern Indiana, Taylor (IN), Temple (PA), Valparaiso (IN), and Wisconsin). Ball State had communications issues and the network failed to stretch to Virginia and Tennessee, Medgar Evers and Temple on connected with each other, but data was exchanged between multiple balloons across the mesh and data was relayed via the balloons to the primary ground station at Taylor in Upland, Indiana.
Howard

--- On Thu, 7/29/10, wb8elk@aol.com <wb8elk@...> wrote:

From: wb8elk@... <wb8elk@...>
Subject: Re: [GPSL] Field Day Super Launch
To: GPSL@yahoogroups.com
Date: Thursday, July 29, 2010, 1:38 AM

Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one way only....I was listening to his balloon on 2m and repeating it down on 70cm....it was weak copy and only could hear briefly as we were a bit off in launch timing.

- Bill WB8ELK

-----Original Message-----

From: Mike Manes <mrmanes@gmail. com>

To: GPSL@yahoogroups. com

Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>

Sent: Wed, Jul 28, 2010 10:29 pm

Subject: Re: [GPSL] Field Day Super Launch

It takes some careful frequency coordination to prevent creating a huge

stratospheric audio oscillator.

On 7/28/2010 20:34, Joe wrote:

> I've been trying for years to schedule something like this, but no one else

> seems to want to try or have the right equipment. to go both ways.

>

> Joe WB9SBD

> Near Space Sciences KB9KHO

>

> The Original Rolling Ball Clock

> Idle Tyme

> Idle-Tyme.com

> http://www.idle- tyme.com

>

> On 7/28/2010 8:42 PM, Jerry Gable wrote:

>> Out of curiosity, has anyone tried balloon to balloon contact at a

>> distance? If you could coordinate the launch you might be able to hop

>> several balloons @ 5-600 miles between balloons.

>>

>> Jerry

>>

>>

>> ------------ --------- --------- --------- --------- --------- -

>> *From:* Mike Manes <mrmanes@gmail. com>

>> *To:* wb8elk@...

>> *Cc:* GPSL@yahoogroups. com; Jeff Ryan K0RM <k0rm@...>

>> *Sent:* Wed, July 28, 2010 5:12:44 PM

>> *Subject:* Re: [GPSL] Field Day Super Launch

>>

>> Thanks, Bill,

>>

>> That means a lot coming from the grand-daddy of ARHAB!

>>

>> I've cc'ed Jeff K0RM, who may be interested in your experiences with

>> previous FD repeater flights.

>>

>> 73 de Mike W5VSI

>>

>> On 7/28/2010 14:23, wb8elk@aol.com <mailto:wb8elk% 40aol.com>; wrote:

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>> > Mike,

>> > Excellent writeup....the ARRL could use that as it stands for an ARHAB article

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>> > to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my 2m

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>> > Az/El tracking array.

>> > Since the BalloonSat is essentially a low altitude satellite, I would think

>> > that the same rules for contacts made via satellites could apply to a

>> > BalloonSat for Field Day. If nothing else, there is often special points for a

>> > mode....in past years, extra points were given for an ATV demo for example. I

>> > also have a few contacts in the ARRL and will send them an email as well about

>> > this possibility.

>> > - Bill WB8ELK

>>

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>> Mike Manes mrmanes@gmail. com <mailto:mrmanes% 40gmail.com>; Tel: 303-979-4899

>> "Things should be made as simple as possible, but not more so."

>> A. Einstein

>>

--

Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

7834. GPSL 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 13:00:03 UTC
From: Joe
Topic: 5728 Message: 7834
Attachments: 1 described; binary payloads are missing from this source WARC

Did anyone record all the presentations?

And will they be viewable on the web?

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

7835. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 13:57:50 UTC
From: Jerry Gable
Topic: 4708 Message: 7835

I guess I was thinking more along the lines of digital packets. Set something up similar to a Zigbee mesh network between balloons. We could call it SkyNet...

Getting launch times and ascent rates coordinated. Maybe just a simple zigbee connection between balloons at GPSL would be a better place to start.

Jerry

From: "wb8elk@aol.com" <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Wed, July 28, 2010 10:38:25 PM
Subject: Re: [GPSL] Field Day Super Launch

Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one way only....I was listening to his balloon on 2m and repeating it down on 70cm....it was weak copy and only could hear briefly as we were a bit off in launch timing.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@gmail. com>
To: GPSL@yahoogroups. com
Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>
Sent: Wed, Jul 28, 2010 10:29 pm
Subject: Re: [GPSL] Field Day Super Launch

It takes some careful frequency coordination to prevent creating a huge stratospheric audio oscillator.

On 7/28/2010 20:34, Joe wrote:
> I've been trying for years to schedule something like this, but no one else
> seems to want to try or have the right equipment. to go both ways.
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> Joe WB9SBD
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> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com/
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>> distance? If you could coordinate the launch you might be able to hop

>> several balloons @ 5-600 miles between balloons.
>>
>> Jerry
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>>
>> ------------ --------- --------- --------- --------- --------- -
>> *From:* Mike Manes <mrmanes@gmail. com>
>> *To:* wb8elk@...
>> *Cc:* GPSL@yahoogroups. com; Jeff Ryan K0RM <k0rm@arrl.net>
>> *Sent:* Wed, July 28, 2010 5:12:44 PM
>> *Subject:* Re: [GPSL] Field Day Super Launch
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>> Thanks, Bill,
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>> That means a lot coming from the grand-daddy of ARHAB!
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>> I've cc'ed Jeff K0RM, who may be interested in your experiences with
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>> "Things should be made as simple as possible, but not more so."
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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7836. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 14:14:21 UTC
From: L. Paul Verhage
Topic: 4708 Message: 7836

Skynet? Ummm, why do I think that's a bad idea......

Paul

On Thu, Jul 29, 2010 at 8:57 AM, Jerry Gable <jerrygable@...> wrote:

>
>
> I guess I was thinking more along the lines of digital packets. Set
> something up similar to a Zigbee mesh network between balloons. We could
> call it SkyNet...
>
> Getting launch times and ascent rates coordinated. Maybe just a simple
> zigbee connection between balloons at GPSL would be a better place to start.
>
> Jerry
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> ------------------------------
> *From:* "wb8elk@..." <wb8elk@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, July 28, 2010 10:38:25 PM
>
> *Subject:* Re: [GPSL] Field Day Super Launch
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>
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> Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was
> one way only....I was listening to his balloon on 2m and repeating it down
> on 70cm....it was weak copy and only could hear briefly as we were a bit off
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>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@gmail. com>
> To: GPSL@yahoogroups. com
> Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>
> Sent: Wed, Jul 28, 2010 10:29 pm
> Subject: Re: [GPSL] Field Day Super Launch
>
>
> It takes some careful frequency coordination to prevent creating a huge
> stratospheric audio oscillator.
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> On 7/28/2010 20:34, Joe wrote:
> > I've been trying for years to schedule something like this, but no one
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> >> ------------ --------- --------- --------- --------- --------- -
> >> *From:* Mike Manes <mrmanes@gmail. com <mrmanes%40gmail.com>>
> >> *To:* wb8elk@... <wb8elk%40aol.com>
> >> *Cc:* GPSL@yahoogroups. com <GPSL%40yahoogroups.com>; Jeff Ryan K0RM <
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> >> On 7/28/2010 14:23, wb8elk@... <wb8elk%40aol.com> <mailto:wb8elk%
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> >> Mike Manes mrmanes@gmail. com <mrmanes%40gmail.com> <mailto:mrmanes%
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>
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--
Onwards and Upwards,
Paul

7837. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 14:31:44 UTC
From: Joe
Topic: 4708 Message: 7837
Attachments: 1 described; binary payloads are missing from this source WARC

astalavista baby

Skynet's Not all that bad,,,, Really! he he he

http://www.youtube.com/watch?v=NW8TJ7HXx-Q

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/29/2010 9:14 AM, L. Paul Verhage wrote:
>
>
> Skynet? Ummm, why do I think that's a bad idea......
> Paul
>
> On Thu, Jul 29, 2010 at 8:57 AM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
>
>
> I guess I was thinking more along the lines of digital packets.
> Set something up similar to a Zigbee mesh network between
> balloons. We could call it SkyNet...
>
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> simple zigbee connection between balloons at GPSL would be a
> better place to start.
>
> Jerry
>
> ---
> *From:* "wb8elk@... <mailto:wb8elk@...>" <wb8elk@...
> <mailto:wb8elk@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wed, July 28, 2010 10:38:25 PM
>
> *Subject:* Re: [GPSL] Field Day Super Launch
>
> Agree to that Mike....the one I did with Chuck W9IHS in the early
> 90's was one way only....I was listening to his balloon on 2m and
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> - Bill WB8ELK

>
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> -----Original Message-----
> From: Mike Manes <mrmanes@gmail. com>
> To: GPSL@yahoogroups. com
> Cc: Joe <nss@... <mailto:nss@...>>; Jerry Gable
> <jerrygable@yahoo. com>
> Sent: Wed, Jul 28, 2010 10:29 pm
> Subject: Re: [GPSL] Field Day Super Launch
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> stratospheric audio oscillator.
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> On 7/28/2010 20:34, Joe wrote:
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> >> *Sent:* Wed, July 28, 2010 5:12:44 PM
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> >> That means a lot coming from the grand-daddy of ARHAB!
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> >> I've cc'ed Jeff K0RM, who may be interested in your experiences
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> >> previous FD repeater flights.
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> >> 73 de Mike W5VSI
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> >> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk%40aol.com>
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> >> > also have a few contacts in the ARRL and will send them an
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> >> Mike Manes mrmanes@gmail. com <mailto:mrmanes%40gmail.com>
> <mailto:mrmanes% 40gmail.com> <mailto:mrmanes%40gmail.com%3E?>;
> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
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> Onwards and Upwards,
> Paul
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>
>

7838. Fwd: GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 14:47:23 UTC
From: L. Paul Verhage
Topic: 7838 Message: 7838

Okay, so GPSL in 2011 is in Colorado. Omaha is interested in either 2012 or 2013. Pella, do you have a preference?

Keith, can we get this up on the website?

Thanks,
Paul

---------- Forwarded message ----------
From: Rob Wright <kc0uuo@...>
Date: Wed, Jul 28, 2010 at 10:49 PM
Subject: GPSL 2011
To: nearsys@...

Paul,
Edge of Space Sciences would like to host the event in Pueblo, CO July 30th, 2011.

Rob Wright
President
Edge of Space Sciences, INC.
303-359-5660

--
Onwards and Upwards,
Paul

7839. Re: [GPSL] Fwd: GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 16:03:34 UTC
From: Keith Kaiser
Topic: 7838 Message: 7839

I'll put it up asap. What happened to Pella, IA?

On Jul 29, 2010, at 9:47 AM, L. Paul Verhage wrote:

>
> Okay, so GPSL in 2011 is in Colorado. Omaha is interested in either 2012 or 2013. Pella, do you have a preference?
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> Keith, can we get this up on the website?
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> Rob Wright
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>
>
> --
> Onwards and Upwards,
> Paul
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>

7840. Re: [GPSL] Fwd: GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 16:07:01 UTC
From: Zack Clobes
Topic: 7838 Message: 7840

Sounds good to me. Who is officially in charge in Colorado? I'll get my conference notes sent over to them.

On Thu, Jul 29, 2010 at 11:03 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I'll put it up asap. What happened to Pella, IA?
>
>
> On Jul 29, 2010, at 9:47 AM, L. Paul Verhage wrote:
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> Onwards and Upwards,
> Paul

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>
>

7841. Re: [GPSL] Fwd: GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 16:08:44 UTC
From: L. Paul Verhage
Topic: 7838 Message: 7841

Our contact in Pella will be teaching in 2011. so we'll move them and Omaha
to 2012 and 2013.

Isn't it wonderful to be planing this far in advance?

Paul

On Thu, Jul 29, 2010 at 11:03 AM, Keith Kaiser <wa0tjt@...> wrote:

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> I'll put it up asap. What happened to Pella, IA?
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Onwards and Upwards,
Paul

7842. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 17:58:01 UTC
From: BASE
Topic: 4708 Message: 7842

BASE (DePauw) has participated in three mesh networks with digital packets exchange in the 900 MHz spread spectrum band.
November 2006 - BASE and Taylor over about 70 milesNovember 2007 - Cedarville(OH), College of St. Catherine's(MN), DePauw(IN), Iowa State, Minnesota, Taylor(IN), and Valparaiso(IN). Eastern set (Cedarville, DePauw, Valpo, Taylor) connected but western set did not connect to the east.
April 2009 - Ball State (IN), Bryan College (TN), Cedarville (OH), College of St. Catherine's(MN), DePaul(IL), DePauw(IN), Iowa State, Medgar Evers College(NY), Minnesota, Norfolk State(VA), University of Southern Indiana, Taylor(IN), Temple(PA), Valparaiso(IN), and Wisconsin. Ball State had equipment issues. Bryan and Norfolk State didn't hit any other balloons. Medgar Evers and Temple didn't reach the rest of the network. The other balloons did mesh and all data was downlinked to Taylor's ground station.
Howard

--- On Thu, 7/29/10, Jerry Gable <jerrygable@yahoo.com> wrote:

From: Jerry Gable <jerrygable@...>
Subject: Re: [GPSL] Field Day Super Launch
To: GPSL@yahoogroups.com
Date: Thursday, July 29, 2010, 9:57 AM

I guess I was thinking more along the lines of digital packets. Set something up similar to a Zigbee mesh network between balloons. We could call it SkyNet...

Getting launch times and ascent rates coordinated. Maybe just a simple zigbee connection between balloons at GPSL would be a better place to start.

Jerry

From: "wb8elk@aol. com" <wb8elk@...>
To:
GPSL@yahoogroups. com
Sent: Wed, July 28, 2010 10:38:25 PM
Subject: Re: [GPSL] Field Day Super Launch

Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one way only....I was listening to his balloon on 2m and repeating it down on 70cm....it was weak copy and only could hear briefly as we were a bit off in launch timing.

- Bill WB8ELK

-----Original Message-----

From: Mike Manes <mrmanes@gmail. com>

To: GPSL@yahoogroups. com

Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>

Sent: Wed, Jul 28, 2010 10:29 pm

Subject: Re: [GPSL] Field Day Super Launch

It takes some careful frequency coordination to prevent creating a huge

stratospheric audio oscillator.

On 7/28/2010 20:34, Joe wrote:

> I've been trying for years to schedule something like this, but no one else

> seems to want to try or have the right equipment. to go both ways.

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> Joe WB9SBD

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>> Out of curiosity, has anyone tried balloon to balloon contact at a

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>> several balloons @ 5-600 miles between balloons.

>>

>> Jerry

>>

>>

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>> *To:* wb8elk@...

>> *Cc:* GPSL@yahoogroups. com; Jeff Ryan K0RM <k0rm@arrl.net>

>> *Sent:* Wed, July 28, 2010 5:12:44 PM

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>> Thanks, Bill,

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>> That means a lot coming from the grand-daddy of ARHAB!

>>

>> I've cc'ed Jeff K0RM, who may be interested in your experiences with

>> previous FD repeater flights.

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>> 73 de Mike W5VSI

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7843. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 21:11:35 UTC
From: wb8elk@aol.com
Topic: 4708 Message: 7843

Jerry....the Digi (formerly Maxstream) XBee PRO XSC modules on 915 MHz with 100 milliwatt outputs would make that possible at the seperation distances that we typically see at GPSL. I'll plan on doing that with a couple of other groups at the next GPSL...I already have the capability to output to the XBee PRO on my multi-mode transmitter and will shortly have the ability to have it show up on a Google Map at the SpaceNear.us website. I'll be doing some range testing of these inexpensive modules at the upcoming Spaceport Indiana flight on August 6th and possibly on the BASE flight on Aug. 7th.

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Date: 2010-07-29 21:20:36 UTC
From: L. Paul Verhage
Topic: 4708 Message: 7844

I'm using XBee for a robot communication project. Even the low power ones
are great. I've created a terminal that allows you to command a robot over
a wireless link. It's just like sending serial data over a cable. I'll
have to look into the higher power ones. I'd like to let students try to
recieve data from their BalloonSats.

Paul

On Thu, Jul 29, 2010 at 4:11 PM, <wb8elk@...> wrote:

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> Subject: Re: [GPSL] Field Day Super Launch
>
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> It takes some careful frequency coordination to prevent creating a huge
> stratospheric audio oscillator.
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> On 7/28/2010 20:34, Joe wrote:
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> > Joe WB9SBD
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> >> several balloons @ 5-600 miles between balloons.
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> >> Jerry
> >>
> >>
> >> ------------ --------- --------- --------- --------- --------- -
> >> *From:* Mike Manes <mrmanes@gmail. com <mrmanes%40gmail.com>>
> >> *To:* wb8elk@... <wb8elk%40aol.com>
> >> *Cc:* GPSL@yahoogroups. com <GPSL%40yahoogroups.com>; Jeff Ryan K0RM <
> k0rm@... <k0rm%40arrl.net>>
> >> *Sent:* Wed, July 28, 2010 5:12:44 PM

> >> *Subject:* Re: [GPSL] Field Day Super Launch
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> >> Thanks, Bill,
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> >> That means a lot coming from the grand-daddy of ARHAB!
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> >> I've cc'ed Jeff K0RM, who may be interested in your experiences with
> >> previous FD repeater flights.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 7/28/2010 14:23, wb8elk@... <wb8elk%40aol.com> <mailto:wb8elk%
> 40aol.com> <wb8elk%40aol.com%3E?>; wrote:
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> >> > Mike,
> >> > Excellent writeup....the ARRL could use that as it stands for an ARHAB
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> 40gmail.com> <mrmanes%40gmail.com%3E?>; Tel: 303-979-4899

> >> "Things should be made as simple as possible, but not more so."
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--
Onwards and Upwards,
Paul

7845. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-29 23:24:56 UTC
From: Jerry Gable
Topic: 4708 Message: 7845

Bill,
Not sure if you are interested but I have been playing with this tool called GooPs (http://goopstechnologies.com/). In it's simplest form it allows you to track multiple objects real time in Google Earth. It also allows you to FTP to a server the KML files that it is generating.

I am looking at using it to put tracking info on my own server.

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Thu, July 29, 2010 2:11:35 PM
Subject: Re: [GPSL] Field Day Super Launch

Jerry....the Digi (formerly Maxstream) XBee PRO XSC modules on 915 MHz with 100 milliwatt outputs would make that possible at the seperation distances that we typically see at GPSL. I'll plan on doing that with a couple of other groups at the next GPSL...I already have the capability to output to the XBee PRO on my multi-mode transmitter and will shortly have the ability to have it show up on a Google Map at the SpaceNear.us website. I'll be doing some range testing of these inexpensive modules at the upcoming Spaceport Indiana flight on August 6th and possibly on the BASE flight on Aug. 7th.

- Bill WB8ELK

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To: GPSL@yahoogroups. com
Sent: Thu, Jul 29, 2010 8:57 am
Subject: Re: [GPSL] Field Day Super Launch

I guess I was thinking more along the lines of digital packets. Set something up similar to a Zigbee mesh network between balloons. We could call it SkyNet...

Getting launch times and ascent rates coordinated. Maybe just a simple zigbee connection between balloons at GPSL would be a better place to start.

Jerry

From: "wb8elk@aol. com" <wb8elk@...>
To: GPSL@yahoogroups. com
Sent: Wed, July 28, 2010 10:38:25 PM
Subject: Re: [GPSL] Field Day Super Launch

Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one way only....I was listening to his balloon on 2m and repeating it down on 70cm....it was weak copy and only could hear briefly as we were a bit off in launch timing.

- Bill WB8ELK

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To: GPSL@yahoogroups. com
Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>
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Subject: Re: [GPSL] Field Day Super Launch

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7846. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 01:04:59 UTC
From: Joe
Topic: 4708 Message: 7846
Attachments: 1 described; binary payloads are missing from this source WARC

This looks cool but am I seeing a 40 min time limit?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
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On 7/29/2010 6:24 PM, Jerry Gable wrote:
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7847. Has anyone ever launched from a NASA facility?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 01:45:48 UTC
From: k6rpt
Topic: 7847 Message: 7847

Has anyone ever launched from a NASA facility?

-Ron K6RPT

7848. Re: [GPSL] Has anyone ever launched from a NASA facility?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 04:03:23 UTC
From: wb8elk@aol.com
Topic: 7847 Message: 7848

Yes....I was involved with several flights that KE4ROC did from the middle of the Marshall Space Flight Center here in Huntsville, AL....it had onboard live camera ATV with a night vision camera to film the Leonids meteor storm in the late 90's as well as aerogel canisters to capture meteor dust. The launch and downlinked video was sent out via the Marshall website as streaming video (before that became popular)....and was also carried live on NASA TV.

Recently, I was at the NASA BHALF student BalloonSat competition at the NASA Glenn center in Cleveland...although we didn't launch from the facility it was sponsored by NASA.

- Bill WB8ELK

-----Original Message-----
From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Thu, Jul 29, 2010 8:45 pm
Subject: [GPSL] Has anyone ever launched from a NASA facility?

Has anyone ever launched from a NASA facility?

-Ron K6RPT

7849. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 12:41:38 UTC
From: James Coxon
Topic: 4708 Message: 7849
Attachments: 1 described; binary payloads are missing from this source WARC

Regarding Google Earth - a network link is difficult to setup, not sure
you'd need the additional software to do it. Spacenear.us/tracker currently
produces a kml file which can be opened in google earth and will update in
real time. Does add another dimension to following flights (excuse the pun).

James
M6JCX

On 30 July 2010 02:04, Joe <nss@...> wrote:

> This looks cool but am I seeing a 40 min time limit?
>
> Joe WB9SBD
>
>
> The Original Rolling Ball Clock
> Idle Tyme
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7850. Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 13:58:12 UTC
From: Pete Lilja
Topic: 7850 Message: 7850

When initiating a HAB flight do we launch, release, let go, un-tie, free, liberate,
reject, un-hinder, float, cast, discharge, hurl, propel, project, catapult or any other related verb?

I find myself using "launch" but am not completely comfortable with that phrase...

Pete
KC0GPB

7851. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 14:05:31 UTC
From: Keith Kaiser
Topic: 7850 Message: 7851

We quiesce the balloon.

On Jul 30, 2010, at 8:58 AM, Pete Lilja wrote:

>
> When initiating a HAB flight do we launch, release, let go, un-tie, free, liberate,
> reject, un-hinder, float, cast, discharge, hurl, propel, project, catapult or any other related verb?
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> Pete
> KC0GPB
>
>

7852. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 15:15:04 UTC
From: BASE
Topic: 7850 Message: 7852

Pete,
I like launch as a parallel to launching a boat from shore. I launching a balloon to sail through the ocean of air.
Howard
--- On Fri, 7/30/10, Pete Lilja <plilja@...> wrote:

From: Pete Lilja <plilja@...>
Subject: [GPSL] Release, launch, let go...
To: "gpsl" <GPSL@...m>
Date: Friday, July 30, 2010, 9:58 AM

When initiating a HAB flight do we launch, release, let go, un-tie, free, liberate, reject, un-hinder, float, cast, discharge, hurl, propel, project, catapult or any other related verb?

I find myself using "launch" but am not completely comfortable with that phrase...

Pete
KC0GPB

7853. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 15:17:09 UTC
From: BASE
Topic: 7850 Message: 7853

Pete,
I prefer launch. Like launching a boat from the shore, I am launching a balloon into the ocean of air.
Howard

--- On Fri, 7/30/10, Pete Lilja <plilja@...> wrote:

From: Pete Lilja <plilja@...>
Subject: [GPSL] Release, launch, let go...
To: "gpsl" <GPSL@yahoogroups.com>
Date: Friday, July 30, 2010, 9:58 AM

When initiating a HAB flight do we launch, release, let go, un-tie, free, liberate, reject, un-hinder, float, cast, discharge, hurl, propel, project, catapult or any other related verb?

I find myself using "launch" but am not completely comfortable with that phrase...

Pete
KC0GPB

7854. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 15:39:15 UTC
From: Jerry Gable
Topic: 4708 Message: 7854

James,
I think you ment to say a network link is NOT difficult to set up and I agree with you there. I just found that GooPs has some interesting concepts. I think it is an easy way to play with some of the options that are available in google earth.

Jerry

From: James Coxon <jacoxon@...>
To: GPSL@yahoogroups.com
Cc: Jerry Gable <jerrygable@...>
Sent: Fri, July 30, 2010 5:41:38 AM
Subject: Re: [GPSL] Field Day Super Launch

Regarding Google Earth - a network link is difficult to setup, not sure you'd need the additional software to do it. Spacenear.us/tracker currently produces a kml file which can be opened in google earth and will update in real time. Does add another dimension to following flights (excuse the pun).

James
M6JCX

On 30 July 2010 02:04, Joe <nss@...> wrote:

This looks cool but am I seeing a 40 min time limit?
>
>Joe WB9SBD
>
>
>
>The Original Rolling Ball Clock
>Idle Tyme
>Idle-Tyme.com
>http://www.idle-tyme.com
>
>
>On 7/29/2010 6:24 PM, Jerry Gable wrote:
>Bill,
>>Not sure if you are interested but I have been playing with this tool called
>>GooPs (http://goopstechnologies.com/). In it's simplest form it allows you to
>>track multiple objects real time in Google Earth. It also allows you to FTP to
>>a server the KML files that it is generating.
>>
>>I am looking at using it to put tracking info on my own server.
>>

>>
>>
>>

From: "wb8elk@..." <wb8elk@...>
>>To: GPSL@yahoogroups.com
>>Sent: Thu, July 29, 2010 2:11:35 PM
>>Subject: Re: [GPSL] Field Day Super Launch
>>
>>
>>Jerry....the Digi (formerly Maxstream) XBee PRO XSC modules on 915 MHz with 100
>>milliwatt outputs would make that possible at the seperation distances that we
>>typically see at GPSL. I'll plan on doing that with a couple of other groups at
>>the next GPSL...I already have the capability to output to the XBee PRO on my
>>multi-mode transmitter and will shortly have the ability to have it show up on a
>>Google Map at the SpaceNear.us website. I'll be doing some range testing of
>>these inexpensive modules at the upcoming Spaceport Indiana flight on August
>>6th and possibly on the BASE flight on Aug. 7th.
>>
>>- Bill WB8ELK
>>
>>
>>
>>
>>-----Original Message-----
>>From: Jerry Gable <jerrygable@yahoo. com>
>>To: GPSL@yahoogroups. com
>>Sent: Thu, Jul 29, 2010 8:57 am
>>Subject: Re: [GPSL] Field Day Super Launch
>>
>>
>>
>>I guess I was thinking more along the lines of digital packets. Set something
>>up similar to a Zigbee mesh network between balloons. We could call it
>>SkyNet...
>>
>>Getting launch times and ascent rates coordinated. Maybe just a simple zigbee
>>connection between balloons at GPSL would be a better place to start.
>>
>>Jerry
>>
>>
>>
>>
>>

From: "wb8elk@aol. com" <wb8elk@...>
>>To: GPSL@yahoogroups. com
>>Sent: Wed, July 28, 2010 10:38:25 PM
>>Subject: Re: [GPSL] Field Day Super Launch
>>

>>
>>Agree to that Mike....the one I did with Chuck W9IHS in the early 90's was one
>>way only....I was listening to his balloon on 2m and repeating it down on
>>70cm....it was weak copy and only could hear briefly as we were a bit off in
>>launch timing.
>>
>>- Bill WB8ELK
>>
>>
>>
>>
>>-----Original Message-----
>>From: Mike Manes <mrmanes@gmail. com>
>>To: GPSL@yahoogroups. com
>>Cc: Joe <nss@...>; Jerry Gable <jerrygable@yahoo. com>
>>Sent: Wed, Jul 28, 2010 10:29 pm
>>Subject: Re: [GPSL] Field Day Super Launch
>>
>>
>>
>>It takes some careful frequency coordination to prevent creating a huge
>>stratospheric audio oscillator.
>>
>>On 7/28/2010 20:34, Joe wrote:
>>> I've been trying for years to schedule something like this, but no one else
>>> seems to want to try or have the right equipment. to go both ways.
>>>
>>> Joe WB9SBD
>>> Near Space Sciences KB9KHO
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com/
>>>
>>> On 7/28/2010 8:42 PM, Jerry Gable wrote:
>>>> Out of curiosity, has anyone tried balloon to balloon contact at a
>>>> distance? If you could coordinate the launch you might be able to hop
>>>> several balloons @ 5-600 miles between balloons.
>>>>
>>>> Jerry
>>>>
>>>>
>>>> ------------ --------- --------- --------- --------- --------- -
>>>> *From:* Mike Manes <mrmanes@gmail. com>
>>>> *To:* wb8elk@...
>>>> *Cc:* GPSL@yahoogroups. com; Jeff Ryan K0RM <k0rm@...>
>>>> *Sent:* Wed, July 28, 2010 5:12:44 PM
>>>> *Subject:* Re: [GPSL] Field Day Super Launch
>>>>

>>>> Thanks, Bill,
>>>>
>>>> That means a lot coming from the grand-daddy of ARHAB!
>>>>
>>>> I've cc'ed Jeff K0RM, who may be interested in your experiences with
>>>> previous FD repeater flights.
>>>>
>>>> 73 de Mike W5VSI
>>>>
>>>> On 7/28/2010 14:23, wb8elk@... <mailto:wb8elk% 40aol.com>; wrote:
>>>> >
>>>> >
>>>> > Mike,
>>>> > Excellent writeup....the ARRL could use that as it stands for an ARHAB
>>>>article
>>>> > in QST. I will have to say that in the two Field Day events that I flew a
>>>> > repeater that I received many excited emails from a number of Field Day
>>>sites
>>>> > in over eight states who had a blast working other Field Day sites via
the
>>>> > balloon repeater. Plus many were able to access it with just a mobile rig
>>>and
>>>> > some even with a rubber duck from hundreds of miles away from the balloon.
>>I
>>>> > know that the attendees at my local Huntsville, AL Field Day site were
>>>amazed
>>>> > to hear me talking to Field Day sites in Illinois, Indiana and Ohio with my
>>>>2m
>>>> > handheld. The thrill of working through a satellite without the need for
>an
>>>> > Az/El tracking array.
>>>> > Since the BalloonSat is essentially a low altitude satellite, I would
>think
>>>> > that the same rules for contacts made via satellites could apply to a
>>>> > BalloonSat for Field Day. If nothing else, there is often special points for
>>>>a
>>>> > mode....in past years, extra points were given for an ATV demo for example.
>>>I
>>>> > also have a few contacts in the ARRL and will send them an email as well
>>>>about
>>>> > this possibility.
>>>> > - Bill WB8ELK
>>>>
>>>> --
>>>> Mike Manes mrmanes@gmail. com <mailto:mrmanes% 40gmail.com>; Tel:
>>303-979-4899
>>>> "Things should be made as simple as possible, but not more so."
>>>> A. Einstein
>>>>
>>

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>>Mike Manes mrmanes@gmail. com Tel: 303-979-4899
>>"Things should be made as simple as possible, but not more so."
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>>

7855. Re: [GPSL] Field Day Super Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 15:40:36 UTC
From: James Coxon
Topic: 4708 Message: 7855

Yes - thats exactly what i meant - note to self - check before sending...

James

On 30 July 2010 16:39, Jerry Gable <jerrygable@...> wrote:

>
>
> James,
> I think you ment to say a network link is NOT difficult to set up and I
> agree with you there. I just found that GooPs has some interesting
> concepts. I think it is an easy way to play with some of the options that
> are available in google earth.
>
> Jerry
>
> ------------------------------
> *From:* James Coxon <jacoxon@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Jerry Gable <jerrygable@...>
> *Sent:* Fri, July 30, 2010 5:41:38 AM
>
> *Subject:* Re: [GPSL] Field Day Super Launch
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> Regarding Google Earth - a network link is difficult to setup, not sure
> you'd need the additional software to do it. Spacenear.us/trackercurrently produces a kml
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> update in real time. Does add another dimension to following flights (excuse
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>
> James
> M6JCX
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>
> On 30 July 2010 02:04, Joe <nss@...> wrote:
>
>> This looks cool but am I seeing a 40 min time limit?
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>> Bill,
>> Not sure if you are interested but I have been playing with this tool
>> called GooPs (http://goopstechnologies.com/). In it's simplest form it
>> allows you to track multiple objects real time in Google Earth. It also
>> allows you to FTP to a server the KML files that it is generating.
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>> I am looking at using it to put tracking info on my own server.
>>
>> ------------------------------
>> *From:* "wb8elk@..." <wb8elk@...> <wb8elk@...><wb8elk@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Thu, July 29, 2010 2:11:35 PM
>> *Subject:* Re: [GPSL] Field Day Super Launch
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>> Jerry....the Digi (formerly Maxstream) XBee PRO XSC modules on 915 MHz
>> with 100 milliwatt outputs would make that possible at the seperation
>> distances that we typically see at GPSL. I'll plan on doing that with a
>> couple of other groups at the next GPSL...I already have the capability
>> to output to the XBee PRO on my multi-mode transmitter and will shortly have
>> the ability to have it show up on a Google Map at the SpaceNear.uswebsite. I'll be doing
some range testing of these inexpensive modules at
>> the upcoming Spaceport Indiana flight on August 6th and possibly on the BASE
>> flight on Aug. 7th.
>>
>> - Bill WB8ELK
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>> -----Original Message-----
>> From: Jerry Gable <jerrygable@yahoo. com> <jerrygable@...>
>> To: GPSL@yahoogroups. com
>> Sent: Thu, Jul 29, 2010 8:57 am
>> Subject: Re: [GPSL] Field Day Super Launch
>>
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>> I guess I was thinking more along the lines of digital packets. Set
>> something up similar to a Zigbee mesh network between balloons. We could
>> call it SkyNet...
>>
>> Getting launch times and ascent rates coordinated. Maybe just a simple
>> zigbee connection between balloons at GPSL would be a better place to start.
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>> Jerry
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>> *From:* "wb8elk@aol. com" <wb8elk@...> <wb8elk@...>

>> *To:* GPSL@yahoogroups. com
>> *Sent:* Wed, July 28, 2010 10:38:25 PM
>> *Subject:* Re: [GPSL] Field Day Super Launch
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>> Agree to that Mike....the one I did with Chuck W9IHS in the early 90's
>> was one way only....I was listening to his balloon on 2m and repeating it
>> down on 70cm....it was weak copy and only could hear briefly as we were a
>> bit off in launch timing.
>>
>> - Bill WB8ELK
>>
>>
>>
>> -----Original Message-----
>> From: Mike Manes <mrmanes@gmail. com> <mrmanes@...>
>> To: GPSL@yahoogroups. com
>> Cc: Joe <nss@mwt.net>; Jerry Gable <jerrygable@yahoo. com><jerrygable@...>
>> Sent: Wed, Jul 28, 2010 10:29 pm
>> Subject: Re: [GPSL] Field Day Super Launch
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>> It takes some careful frequency coordination to prevent creating a huge
>> stratospheric audio oscillator.
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>> On 7/28/2010 20:34, Joe wrote:
>> > I've been trying for years to schedule something like this, but no one
>> else
>> > seems to want to try or have the right equipment. to go both ways.
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>> > Joe WB9SBD
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>> > On 7/28/2010 8:42 PM, Jerry Gable wrote:
>> >> Out of curiosity, has anyone tried balloon to balloon contact at a
>> >> distance? If you could coordinate the launch you might be able to hop
>> >> several balloons @ 5-600 miles between balloons.
>> >>
>> >> Jerry
>> >>
>> >>
>> >> ------------ --------- --------- --------- --------- --------- -
>> >> *From:* Mike Manes <mrmanes@gmail. com <mrmanes%40gmail.com>>
>> >> *To:* wb8elk@... <wb8elk%40aol.com>
>> >> *Cc:* GPSL@yahoogroups. com <GPSL%40yahoogroups.com>; Jeff Ryan K0RM <

>> k0rm@arrl.net <k0rm%40arrl.net>>
>> >> *Sent:* Wed, July 28, 2010 5:12:44 PM
>> >> *Subject:* Re: [GPSL] Field Day Super Launch
>> >>
>> >> Thanks, Bill,
>> >>
>> >> That means a lot coming from the grand-daddy of ARHAB!
>> >>
>> >> I've cc'ed Jeff K0RM, who may be interested in your experiences with
>> >> previous FD repeater flights.
>> >>
>> >> 73 de Mike W5VSI
>> >>
>> >> On 7/28/2010 14:23, wb8elk@... <wb8elk%40aol.com> <mailto:wb8elk%
>> 40aol.com> <wb8elk%40aol.com%3E?>; wrote:
>> >> >
>> >> >
>> >> > Mike,
>> >> > Excellent writeup....the ARRL could use that as it stands for an
>> ARHAB article
>> >> > in QST. I will have to say that in the two Field Day events that I
>> flew a
>> >> > repeater that I received many excited emails from a number of Field
>> Day sites
>> >> > in over eight states who had a blast working other Field Day sites
>> via the
>> >> > balloon repeater. Plus many were able to access it with just a mobile
>> rig and
>> >> > some even with a rubber duck from hundreds of miles away from the
>> balloon. I
>> >> > know that the attendees at my local Huntsville, AL Field Day site
>> were amazed
>> >> > to hear me talking to Field Day sites in Illinois, Indiana and Ohio
>> with my 2m
>> >> > handheld. The thrill of working through a satellite without the need
>> for an
>> >> > Az/El tracking array.
>> >> > Since the BalloonSat is essentially a low altitude satellite, I would
>> think
>> >> > that the same rules for contacts made via satellites could apply to a
>> >> > BalloonSat for Field Day. If nothing else, there is often special
>> points for a
>> >> > mode....in past years, extra points were given for an ATV demo for
>> example. I
>> >> > also have a few contacts in the ARRL and will send them an email as
>> well about
>> >> > this possibility.
>> >> > - Bill WB8ELK
>> >>
>> >> --

>> >> Mike Manes mrmanes@gmail. com <mrmanes%40gmail.com> <mailto:mrmanes%
>> 40gmail.com> <mrmanes%40gmail.com%3E?>; Tel: 303-979-4899
>> >> "Things should be made as simple as possible, but not more so."
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>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
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>

7856. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 18:27:17 UTC
From: Joe
Topic: 7850 Message: 7856
Attachments: 1 described; binary payloads are missing from this source WARC

NSS has always used Launch.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 7/30/2010 8:58 AM, Pete Lilja wrote:
>
>
> When initiating a HAB flight do we launch, release, let go, un-tie,
> free, liberate,
> reject, un-hinder, float, cast, discharge, hurl, propel, project,
> catapult or any other related verb?
> I find myself using "launch" but am not completely comfortable with
> that phrase...
> Pete
> KC0GPB
>
>
>

7857. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 20:35:26 UTC
From: L. Paul Verhage
Topic: 7850 Message: 7857
Attachments: 1 described; binary payloads are missing from this source WARC

I vote launch also.

Paul

On Fri, Jul 30, 2010 at 1:27 PM, Joe <nss@...> wrote:

> NSS has always used Launch.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
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> On 7/30/2010 8:58 AM, Pete Lilja wrote:
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> When initiating a HAB flight do we launch, release, let go, un-tie, free,
> liberate,
> reject, un-hinder, float, cast, discharge, hurl, propel, project, catapult
> or any other related verb?
>
> I find myself using "launch" but am not completely comfortable with that
> phrase...
>
> Pete
> KC0GPB
>
>

--
Onwards and Upwards,
Paul

7858. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-30 23:11:20 UTC
From: Pete Lilja
Topic: 7850 Message: 7858

I thought this might generate a little more discussion but it probably really isn't worth expending a lot of effort discussing something this mundane. However....

...I like Howard's image by comparing it to launching a boat. I hadn't thought of it that way as launch had meant to me a lift-off like a rocket. But a gentle push of a sailboat to be carried by wind is much more apt and appropriate to a HAB flight.

And Keith's "we quiesce" is a lot of fun to say I'm not sure it parallels my experience other than I do believe I stand quiet with my mouth agape while watching my balloon (and all my expensive payload 'stuff') float away uncontrolled by me!

Isn't English fun?

Pete "Launcher" Lilja
KC0GPB

On Fri, Jul 30, 2010 at 10:17 AM, BASE <basedepauw@...> wrote:

>
>
> Pete,
>
> I prefer launch. Like launching a boat from the shore, I am launching a
> balloon into the ocean of air.
>
> Howard
>
> --- On *Fri, 7/30/10, Pete Lilja <plilja@...>* wrote:
>
>
> From: Pete Lilja <plilja@...>
> Subject: [GPSL] Release, launch, let go...
> To: "gpsl" <GPSL@yahoogroups.com>
> Date: Friday, July 30, 2010, 9:58 AM
>
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> When initiating a HAB flight do we launch, release, let go, un-tie, free,
> liberate,
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> or any other related verb?
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> I find myself using "launch" but am not completely comfortable with that
> phrase...
>
> Pete
> KC0GPB
>
>
>
>

7859. Re: Mesh network flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 00:59:22 UTC
From: Jerry Gable
Topic: 7859 Message: 7859

Howard,

Something else that may be interesting would be to try and launch a series of balloons that float at altitude. Create a chain where the farthest balloon relays back to the source through the chain of balloons.

As the balloons are eventually brought down they could relay their descent back the chain also.

The only problem is the cost of a series of balloon payloads and the high risk of loosing them.

Jerry

From: Howard Brooks <hlbrooks@...>
To: Jerry Gable <jerrygable@...>
Sent: Fri, July 30, 2010 2:43:32 PM
Subject: Re: Mesh network flights

Jerry,

You're correct. We all flew 1W 900 MHz spread spectrum radios. I agree that more data was exchanged via other methods than was transferred at altitude. However, BASE was only one of the balloons and not the lead ground station. You could get a better idea about the total volume of data transferred from Jeff Dailey at Taylor (jfdailey@...).

We did have a carefully cell phone coordinated launch, with all balloons being released simultaneously with very similar ascent rates. Of course, since we all just flew up to burst and no one floated we were limited in our contact time. On the April 2009 flight, our balloon did receive data packets from four other balloons over a period of 58 minutes.

I think you could view the effort as a proof in principle of the possibility of a large scale airborne mesh network.

Howard

On Fri, Jul 30, 2010 at 4:51 PM, Jerry Gable <jerrygable@...> wrote:
> Howard,
>
> So it sounds like you have been reasonably successful with doing this but
> maybe not successful enough to rely on the links yet.
>
> With the short window and the amount of coordination it takes maybe this
> isn't quite ready for prime time yet. My guess is a lot more bits went via

> email and cell phone coordinating this than ever moved through the balloon
> network on these flights.
>
> I'm Guessing that you used one of the several 1W - 900 MHz spread spectrum
> radios for this.
>
> Thanks,
> Jerry
>
>
> _____
> From: Howard Brooks <hlbrooks@...>
> To: Jerry Gable <jerrygable@...>
> Sent: Thu, July 29, 2010 11:08:57 AM
> Subject: Mesh network flights
>
> Dear Jerry,
>
> This message has had a hard time getting to the GPSL reflector:
>
> BASE (DePauw) has participated in three mesh networks with digital packets
> exchange in the 900 MHz spread spectrum band.
> November 2006 - BASE and Taylor over about 70 miles
> November 2007 - Cedarville(OH), College of St. Catherine's(MN),
> DePauw(IN), Iowa State, Minnesota, Taylor(IN), and Valparaiso(IN).
> Eastern set (Cedarville, DePauw, Valpo, Taylor) connected but western set
> did not connect to the east.
> April 2009 - Ball State (IN), Bryan College (TN), Cedarville (OH), College
> of St. Catherine's(MN), DePaul(IL), DePauw(IN), Iowa State, Medgar Evers
> College(NY), Minnesota, Norfolk State(VA), University of Southern Indiana,
> Taylor(IN), Temple(PA), Valparaiso(IN), and Wisconsin. Ball State had
> equipment issues. Bryan and Norfolk State didn't hit any other balloons.
> Medgar Evers and Temple didn't reach the rest of the network. The other
> balloons did mesh and all data was downlinked to Taylor's ground station.
> Howard
>
> --
> Howard L. Brooks
> Paul B. Kissinger Professor of Physics and Astronomy
> 241 Julian Science and Mathematics Center
> DePauw University
> 602 S. College Street
> Greencastle, IN 46135
> hlbrooks@...
> Office: (765) 658-4653
> FAX: (765) 658-4732

7860. Re: [GPSL] Release, launch, let go...

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 01:18:32 UTC
From: Mike Manes
Topic: 7850 Message: 7860

Back in Navy primary flight training out of Saufley Field (so named for
it's persistent overcast :=), we hung out in the ready room waiting for
the squawk box to announce, "There's a hole! Launch the solos!

73 de Mike W5VSI

On 7/30/2010 09:15, BASE wrote:
>
>
> Pete,
>
> I like launch as a parallel to launching a boat from shore. I launching a
> balloon to sail through the ocean of air.
>
> Howard
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> --- On *Fri, 7/30/10, Pete Lilja /<plilja@...>/* wrote:
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> From: Pete Lilja <plilja@...>
> Subject: [GPSL] Release, launch, let go...
> To: "gpsl" <GPSL@yahoogroups.com>
> Date: Friday, July 30, 2010, 9:58 AM
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> When initiating a HAB flight do we launch, release, let go, un-tie, free,
> liberate,
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> KC0GPB
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7861. Re: [GPSL] Re: Mesh network flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 05:31:35 UTC
From: wb8elk@aol.com
Topic: 7859 Message: 7861

Hi Jerry,

I thought about that very idea about 20 years ago....I am thinking of trying it out with 4 floater balloons this Winter and having each one hop relay through to the one behind it all the way back to ground control here....I plan to space them out such that if one goes away, then they still won't be too far apart to close the gap with the missing balloon....I'll probably start out with 50 miles spacing between balloons to start.

- Bill WB8ELK

-----Original Message-----
From: Jerry Gable <jerrygable@yahoo.com>
To: Howard Brooks <hlbrooks@...>; gpsl <GPSL@yahoogroups.com>
Sent: Fri, Jul 30, 2010 7:59 pm
Subject: [GPSL] Re: Mesh network flights

Howard,

Something else that may be interesting would be to try and launch a series of balloons that float at altitude. Create a chain where the farthest balloon relays back to the source through the chain of balloons.

As the balloons are eventually brought down they could relay their descent back the chain also.

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From: Howard Brooks <hlbrooks@...>
To: Jerry Gable <jerrygable@...>
Sent: Fri, July 30, 2010 2:43:32 PM
Subject: Re: Mesh network flights

Jerry,

You're correct. We all flew 1W 900 MHz spread spectrum radios. I agree
that more data was exchanged via other methods than was transferred at
altitude. However, BASE was only one of the balloons and not the lead
ground station. You could get a better idea about the total volume
of data transferred from Jeff Dailey at Taylor (jfdailey@...).

We did have a carefully cell phone coordinated launch, with all
balloons being released simultaneously with very similar ascent rates.
Of course, since we all just flew up to burst and no one floated we
were limited in our contact time. On the April 2009 flight, our
balloon did receive data packets from four other balloons over a

period of 58 minutes.

I think you could view the effort as a proof in principle of the
possibility of a large scale airborne mesh network.

Howard

On Fri, Jul 30, 2010 at 4:51 PM, Jerry Gable <jerrygable@...> wrote:
> Howard,
>
> So it sounds like you have been reasonably successful with doing this but
> maybe not successful enough to rely on the links yet.
>
> With the short window and the amount of coordination it takes maybe this
> isn't quite ready for prime time yet. My guess is a lot more bits went via
> email and cell phone coordinating this than ever moved through the balloon
> network on these flights.
>
> I'm Guessing that you used one of the several 1W - 900 MHz spread spectrum
> radios for this.
>
> Thanks,
> Jerry
>
>
> _____
> From: Howard Brooks <hlbrooks@depauw.edu>
> To: Jerry Gable <jerrygable@...>
> Sent: Thu, July 29, 2010 11:08:57 AM
> Subject: Mesh network flights
>
> Dear Jerry,
>
> This message has had a hard time getting to the GPSL reflector:
>
> BASE (DePauw) has participated in three mesh networks with digital packets
> exchange in the 900 MHz spread spectrum band.
> November 2006 - BASE and Taylor over about 70 miles
> November 2007 - Cedarville(OH), College of St. Catherine's(MN),
> DePauw(IN), Iowa State, Minnesota, Taylor(IN), and Valparaiso(IN).
> Eastern set (Cedarville, DePauw, Valpo, Taylor) connected but western set
> did not connect to the east.
> April 2009 - Ball State (IN), Bryan College (TN), Cedarville (OH), College
> of St. Catherine's(MN), DePaul(IL), DePauw(IN), Iowa State, Medgar Evers
> College(NY), Minnesota, Norfolk State(VA), University of Southern Indiana,
> Taylor(IN), Temple(PA), Valparaiso(IN), and Wisconsin. Ball State had
> equipment issues. Bryan and Norfolk State didn't hit any other balloons.
> Medgar Evers and Temple didn't reach the rest of the network. The other
> balloons did mesh and all data was downlinked to Taylor's ground station.
> Howard
>

> --
> Howard L. Brooks
> Paul B. Kissinger Professor of Physics and Astronomy
> 241 Julian Science and Mathematics Center
> DePauw University
> 602 S. College Street
> Greencastle, IN 46135
> hlbrooks@...
> Office: (765) 658-4653
> FAX: (765) 658-4732

7862. Re: [GPSL] Re: Mesh network flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 13:14:11 UTC
From: Dan Bowen
Topic: 7859 Message: 7862

Ah yes, though floaters are non-trivial to achieve, out of approximately 10 very concerted attempts at a float we actually floated only 4 times.

Thanks,
Dan
K2VOL
spirit of Knoxville

Sent from my iPhone 4

On Jul 30, 2010, at 20:59, Jerry Gable <jerrygable@...> wrote:

> Howard,
>
> Something else that may be interesting would be to try and launch a series of balloons that float at altitude. Create a chain where the farthest balloon relays back to the source through the chain of balloons.
>
> As the balloons are eventually brought down they could relay their descent back the chain also.
>
> The only problem is the cost of a series of balloon payloads and the high risk of loosing them.
>
> Jerry
>
> From: Howard Brooks <hlbrooks@...>
> To: Jerry Gable <jerrygable@...>
> Sent: Fri, July 30, 2010 2:43:32 PM
> Subject: Re: Mesh network flights
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> Of course, since we all just flew up to burst and no one floated we
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7863. EOSS-154 / GPSL 2010 recap video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 16:13:12 UTC
From: Mike Manes
Topic: 7863 Message: 7863

Wow, Rick,

What a great video!

http://www.eoss.org/ansrecap/ar_160/recap154.htm
(Scroll down near the bottom of the page)

EOSS's very own Steven Spielberg :-).

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7864. Re: [GPSL] EOSS-154 / GPSL 2010 recap video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 17:00:07 UTC
From: Zack Clobes
Topic: 7863 Message: 7864

Nice.

On Sat, Jul 31, 2010 at 11:13 AM, Mike Manes <mrmanes@...> wrote:

>
>
> Wow, Rick,
>
> What a great video!
>
> http://www.eoss.org/ansrecap/ar_160/recap154.htm
> (Scroll down near the bottom of the page)
>
> EOSS's very own Steven Spielberg :-).
>
> 73 de Mike W5VSI
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

7865. Re: [GPSL] EOSS-154 / GPSL 2010 recap video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 17:38:22 UTC
From: Mark Garrett
Topic: 7863 Message: 7865

Great video Mike and Rick. Posted the link to my Facebook page.

Mark Garrett, KA9SZX

http://www.eoss.org/ansrecap/ar_160/recap154.htm
(Scroll down near the bottom of the page)

EOSS's very own Steven Spielberg :-).

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

__ <!-- #ygrp-mkp { border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;} #ygrp-mkp hr { border:1px solid #d8d8d8;} #ygrp-mkp #hd { color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;} #ygrp-mkp #ads { margin-bottom:10px;} #ygrp-mkp .ad { padding:0 0;} #ygrp-mkp .ad a { color:#0000ff;text-decoration:none;} #ygrp-sponsor #ygrp-lc { font-family:Arial;} #ygrp-sponsor #ygrp-lc #hd { margin:10px 0px;font-weight:700;font-size:78%;line-height:122%;} #ygrp-sponsor #ygrp-lc .ad { margin-bottom:10px;padding:0 0;} a { color:#1e66ae;} #actions { font-family:Verdana;font-size:11px;padding:10px 0;} #activity { background-color:#e0ecee;float:left;font-family:Verdana;font-size:10px;padding:10px;} #activity span { font-weight:700;} #activity span:first-child { text-transform:uppercase;} #activity span a { color:#5085b6;text-decoration:none;} #activity span span { color:#ff7900;} #activity span .underline { text-decoration:underline;} .attach { clear:both;display:table;font-family:Arial;font-size:12px;padding:10px 0;width:400px;} .attach div a { text-decoration:none;} .attach img { border:none;padding-right:5px;} .attach label { display:block;margin-bottom:5px;} .attach label a { text-decoration:none;} blockquote { margin:0 0 0 4px;} .bold { font-family:Arial;font-size:13px;font-weight:700;} .bold a { text-decoration:none;} dd.last p a { font-family:Verdana;font-weight:700;} dd.last p span { margin-right:10px;font-family:Verdana;font-weight:700;} dd.last p span.yshortcuts { margin-right:0;} div.attach-table div div a { text-decoration:none;} div.attach-table { width:400px;} div.file-title a, div.file-title a:active, div.file-title a:hover, div.file-title a:visited { text-decoration:none;} div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration:none;} div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts { font-family:Verdana;font-size:10px;font-weight:normal;} .green { color:#628c2a;} .MsoNormal { margin:0 0 0 0;} o { font-size:0;} #photos div { float:left;width:72px;} #photos div div { border:1px solid

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color:#666666;font-size:10px;overflow:hidden;text-align:center;white-space:nowrap;width:64
px;}
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margin-right:2px;padding-right:5px;} #ygrp-mlmsg {
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color:#ff7900;font-weight:700;} #ygrp-reco { margin-bottom:20px;padding:0px;}
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#ov li { font-size:77%;list-style-type:square;padding:6px 0;} #ygrp-sponsor #ov
ul { margin:0;padding:0 0 0 8px;} #ygrp-text { font-family:Georgia;}
#ygrp-text p { margin:0 0 1em 0;} #ygrp-text tt { font-size:120%;} #ygrp-vital
ul li:last-child { border-right:none !important; } -->

7866. Very nice video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-07-31 18:53:35 UTC
From: k6rpt
Topic: 7866 Message: 7866

Very nice video, well done!

-Ron K6RPT

7867. 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 02:13:32 UTC
From: L. Paul Verhage
Topic: 7867 Message: 7867

I've been asked to speak about the future of near space. First is up to 2015.

I want to say that what we do was started in 1987. At the time, education was not a big part of it, it was mostly hams trying out ham equipment at high altitude. Gradualllly educaion got involved and is now one of the biggest growth areas. Colleges and high schools use near space to motivate students and encourage them to work on technical degrees. Some colleges have used near space to teach the principles of spaceflight. If the cost of spaceflight continues to decrease, then we could see more use of near space at universities. Hams provide most of the lift services, but there are cases of non-ham radios being used. Commerical and ISM radios could equal the number of ham radios used in near space by 2015. Perhaps in five years, commerical entities will provide launch services for schools. They have the benefit of being able to launch on weekdays, when most hams are working.

Hams were the first to experiment with repeaters in near space. While it's not a big money maker yet, using balloon repeaters is used commerically along the gulf coast. It may never grow very large, but it could be useful in emergency situations like fighting fires in moutainous terrain where repeater coverage is poor. Could a commerical outfit find this a profitable enterprise?

Because winds are too variable and not repeatable, I don't believe balloon borne platforms will be very practical for mapping or resource detection. The fact that balloons climb in altitude also hinders this because of the changing scale size ad level of details. ZPB can address some of these issues, but are still limited because they can't fly repeatable path. Perhaps for one time coverage, balloons will work well.

I foresee balloons still being used for atmospheric profiles. Satellites will be get better sensors for measuring the atmosphere. However, that also means balloons will get better sensors, also. A satellite can cover a larger area, but sacrifices the small details that balloons can measure. As long as the gases are mixed uniformly, balloons can measure them anywhere.
I don't see industrial processes being carried out in near space. But what about Internet servers in near space? Perhaps lots of people would be willing to check in to the environmental conditions and images on a near space website. The equiment would be paid for by advertisers on the website. Bigelow Aerospace has launched momentos into space that people paid to have launched. They can see them floating around on the space station's website. JP Aerospace has photographed business cards in near space. Is carrying personal stuff into near space a profitable venture when you consider the expense of recovery?

Burial services? An ounce of creamains could be placed inside a balloon and then launched. A digital camera pointed up will show the balloon bursting in near space and spreading the ashes. Or the ashs could be carried up in a container that is dumped in near space. Again, having a video recorder to record the event would be important.

Anyhow, these are things I'm thinking about. If you have any ideas or resources, please let me know.

--
Onwards and Upwards,
Paul

7868. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 02:50:12 UTC
From: Mark Garrett
Topic: 7867 Message: 7868

Paul:

That sounds like a great business venture. You could take the balloon to them, say good by to grandma and let it go. The family could release the balloon. You would have to charge extra for sea scattering as you won't get the gear back.
Mark Garrett, KA9SZX

From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Sat, July 31, 2010 9:13:32 PM
Subject: [GPSL] 5 Years from Now

I've been asked to speak about the future of near space. First is up to 2015.

I want to say that what we do was started in 1987. At the time, education was not a big part of it, it was mostly hams trying out ham equipment at high altitude. Graduallly educaion got involved and is now one of the biggest growth areas. Colleges and high schools use near space to motivate students and encourage them to work on technical degrees. Some colleges have used near space to teach the principles of spaceflight. If the cost of spaceflight continues to decrease, then we could see more use of near space at universities. Hams provide most of the lift services, but there are cases of non-ham radios being used. Commerical and ISM radios could equal the number of ham radios used in near space by 2015. Perhaps in five years, commerical entities will provide launch services for schools. They have the benefit of being able to launch on weekdays, when most hams are working.

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Anyhow, these are things I'm thinking about. If you have any ideas or resources, please let me know.

--
Onwards and Upwards,
Paul

7869. 20 years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 02:56:41 UTC
From: L. Paul Verhage
Topic: 7869 Message: 7869

The second question I need to address is what things do I foresee happening in 20 years.

I will stick with lighter than air craft. I think bigger is better and more useful. Also, a tethered balloon is more useful than a free floater. I can foresee large platforms tethered with carbon nanotube cables. Since 20 miles or more in altitude is too great for power cables, they will need solar cells. The distance to the horizon will be 400 miles, so near space stations could be useful cell phone towers. Half a dozen fixed platforms could route radio traffic across the US. Cell phone towers on the ground would decide when to send a message to a neighboring tower or to a balloon platform. Since the platform doesn't move like a satellite, it should be easier to connect to one. The tower can use a dish antenna for gain and save power in the transmission of the signal. The near space platforms are 400 or so miles apart, which is simliar to the distance to LEO satellites. But LEO satellites are contantly on the move and need more powerful transmitters to communicate with omni antennas. GEO satellites are fixed, but need more power because of their distance (22,500 miles). A fixed near space platform has the best benefits of LEO and GEO satellites.

A fixed platform could observe solar cell arrays on the ground to let utility companies know when the power output of an array will drop from cloud cover (thanks Mark for the idea). If near space stations (NSS) can measure winds, then wind farms would find them useful.

Instruments and experiments needing long term exposure could be placed in standardized racks onboard the NSS. Robots can load, unload, and operate experiments. Tele-operating in near space is no more difficult than doing the same thing at the bottom of the Gulf of Mexico to plug a BP oil well.
For redunacy, several balloons need to be attached to the NSS. They need to be a tightly woven plastic so hydrogen leaks out very slowly. Occasionally, additional H2 will need to be brought to the NSS. How do we bring the H2 and experiments to the NSS? Use an elevator. A practical space elevator will use crawlers that creep up a nanocarbon belt. I think the same thing could be used for the NSS. Several cables tether the NSS to the ground in a tripod. A belt directly below the NSS is used by crawlers to bring supplies to the NSS. This makes a NSS a practical test of ideas for a space elevator (which may be a project for next century).

What if the NSS could be made larger? Could one be large enough and dependable enough to host a human crew? People are planning to spend some $200,000 to take a 15 minutes ride in space. Would people be willing to spend say $20,000 to spend a day in near space? You could watch sunrise and sunset, something the space riders of Spaceship 2 won't be doing. You could don a spacesuit and walk around the platform. Who wouldn't want

to wear a real spacesuit?

What about combining extreme sports and the NSS? A NSS should be a safe platform for skydivers. Ride to the platform, don a spacesuit, exit the station, grabe the rail, and drop off. It would take specialized training, but I think it would be the ultimate extreme sport. It's the ultimate BASE jump.

We build telescopes in airplanes and mountain tops to get above water vapor. Getting above 99% of the atmopshere may be good enough for many space telescope applications. I know UVC, gamma, and x-rays are blocked above the stratosphere, but there's more raw light reaching 100,000 feet than the ground. The images are also steadier. Perhaps amateur astromomy clubs could afford to place a telescope on a NSS.

So, those are some of my initial thoughts. I need to organize my thoughts and research them in depth. If you have any suggestions, I'd love to hear them.

Thanks
--
Onwards and Upwards,
Paul

7870. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 02:58:06 UTC
From: Mike Manes
Topic: 7867 Message: 7870

Hi Paul,

Heck, we ALL talk about near space - after all, we did that all Friday a couple of weeks ago! So is this part of your degree program or what?

Note that Space Data Corp has turned a decent profit from it's medium-term vented latex floaters carrying proprietary cell sites. Space Data started out considering station-keeping long-duration balloons, but soon discovered that balloon volume, weight and cost soars exponentially with weight, thus driving them towards small latex bags like we're used to flying. The fact that they keep the sky full of their balloons over the area of interest, an have them networked, pretty well deals with the random flight trajectory issue.

DoD is becoming quite interested in using near space and lower balloons for remote sensing, communications and tactical purposes; maybe we in ARHAB might have inspired 'em? Of course, NASA's Columbia SBF has been launching "Buicks with 4 scientists" into near space for decades - but those flights ain't cheap.

EOSS has flown several in situ atmospheric CO2 and CH4 profilers for NOAA, and some of the results have been quite revealing. And astronomers have become interested in flying sub-orbital telescopes - almost as good birds like Hubble, but a LOT cheaper to fly, and you can get 'em back to fly again another day. A good example was the microwave background survey experiment that flew under a ZPB from Sweden to Canada a few years ago.

You mentioned ZPB's as the way to achieve long-duration flights. However, the Space Data technique seems to work just dandy. With newer polymer films coming out, super-pressure balloons may be the next wave of floaters. SPBs don't "burn" ballast to stay afloat, and the envelopes can be made quite UV-resistant. NASA has been working with AeroStar to develop SPBs of the size they're accustomed to flying, but the stresses required to hold gas pressure with 2000 kg neck loads are formidable. So I foresee some ARHAB group taking the initiative to make and fly a small SPB by 2015. Hmmm ... just WHO will it be?

And for sure, we can expect to see more for-profit organizations such as Space Data trotting out new sub-orbital services, using commercial and/or Part 15 RF links.

Forecasting the future is risky business - it's always easier to forecast in retrospect :=).

73 de Mike W5VSI

On 7/31/2010 20:13, L. Paul Verhage wrote:
>
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> Onwards and Upwards,

> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7871. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 03:06:31 UTC
From: Zack Clobes
Topic: 7867 Message: 7871

Regarding the scattering of ashes, I believe the EPA has some issues with that. There are various pilots/aircraft that are setup to do such a thing. Several years ago I stumbled across a website (don't remember what I was actually looking for...) that was talking about it, but they kept referring to it as "theoretical" since in many circumstances it would be illegal to do so.

If you did sea-side scattering, you probably wouldn't have as many issues with polluting, but then you'd somehow have to get the video back to the family.

Nevertheless, if I wind up cremated, I expect someone on this forum to sneak at least part of me into near space... ;-)

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sat, Jul 31, 2010 at 9:58 PM, Mike Manes <mrmanes@...> wrote:

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> Hi Paul,
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> Heck, we ALL talk about near space - after all, we did that all Friday a
> couple of weeks ago! So is this part of your degree program or what?
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> gas pressure with 2000 kg neck loads are formidable. So I foresee some
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7872. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 03:16:38 UTC
From: Mark Conner
Topic: 7867 Message: 7872

Mike,

Any details on the CO2 sensors? The company I work for has some interest in balloon-borne CO2 sensor profiles.

Still hoping someday to combine hobby and work.....

73 de Mark N9XTN

On Sat, Jul 31, 2010 at 21:58, Mike Manes <mrmanes@...> wrote:

>
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> some of the results have been quite revealing.
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7873. Re: [GPSL] 20 years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 03:15:30 UTC
From: Mike Manes
Topic: 7869 Message: 7873

Ha! 20 years ago, the GPS-based APRS beacons that we all fly today
were at best a balloonist's wet dream. In 1975, the PCs were limited
to the domain of a few geeks, and 20 years later, they were common home
appliances. Whoda guessed?

Going out 20 years is an exercise in stretching one's grasp to match
his reach, IMHO. GL with that!

73 de Mike W5VSI

On 7/31/2010 20:56, L. Paul Verhage wrote:
>
>
> The second question I need to address is what things do I foresee happening in
> 20 years.
> I will stick with lighter than air craft. I think bigger is better and more
> useful. Also, a tethered balloon is more useful than a free floater. I can
> foresee large platforms tethered with carbon nanotube cables. Since 20 miles
> or more in altitude is too great for power cables, they will need solar
> cells. The distance to the horizon will be 400 miles, so near space stations
> could be useful cell phone towers. Half a dozen fixed platforms could route
> radio traffic across the US. Cell phone towers on the ground would decide
> when to send a message to a neighboring tower or to a balloon platform. Since
> the platform doesn't move like a satellite, it should be easier to connect to
> one. The tower can use a dish antenna for gain and save power in the
> transmission of the signal. The near space platforms are 400 or so miles
> apart, which is simliar to the distance to LEO satellites. But LEO satellites
> are contantly on the move and need more powerful transmitters to
> communicate with omni antennas. GEO satellites are fixed, but need more power
> because of their distance (22,500 miles). A fixed near space platform has the
> best benefits of LEO and GEO satellites.
> A fixed platform could observe solar cell arrays on the ground to let utility
> companies know when the power output of an array will drop from cloud cover
> (thanks Mark for the idea). If near space stations (NSS) can measure winds,
> then wind farms would find them useful.
> Instruments and experiments needing long term exposure could be placed in
> standardized racks onboard the NSS. Robots can load, unload, and operate
> experiments. Tele-operating in near space is no more difficult than doing the
> same thing at the bottom of the Gulf of Mexico to plug a BP oil well.
> For redunacy, several balloons need to be attached to the NSS. They need to
> be a tightly woven plastic so hydrogen leaks out very slowly. Occasionally,
> additional H2 will need to be brought to the NSS. How do we bring the H2 and
> experiments to the NSS? Use an elevator. A practical space elevator will use
> crawlers that creep up a nanocarbon belt. I think the same thing could be
> used for the NSS. Several cables tether the NSS to the ground in a tripod. A
> belt directly below the NSS is used by crawlers to bring supplies to the NSS.

> This makes a NSS a practical test of ideas for a space elevator (which may be
> a project for next century).
> What if the NSS could be made larger? Could one be large enough and
> dependable enough to host a human crew? People are planning to spend some
> $200,000 to take a 15 minutes ride in space. Would people be willing to spend
> say $20,000 to spend a day in near space? You could watch sunrise and sunset,
> something the space riders of Spaceship 2 won't be doing. You could don a
> spacesuit and walk around the platform. Who wouldn't want to wear a real
> spacesuit?
> What about combining extreme sports and the NSS? A NSS should be a safe
> platform for skydivers. Ride to the platform, don a spacesuit, exit the
> station, grabe the rail, and drop off. It would take specialized training,
> but I think it would be the ultimate extreme sport. It's the ultimate BASE jump.
> We build telescopes in airplanes and mountain tops to get above water vapor.
> Getting above 99% of the atmopshere may be good enough for many space
> telescope applications. I know UVC, gamma, and x-rays are blocked above the
> stratosphere, but there's more raw light reaching 100,000 feet than the
> ground. The images are also steadier. Perhaps amateur astromomy clubs could
> afford to place a telescope on a NSS.
>
> So, those are some of my initial thoughts. I need to organize my thoughts and
> research them in depth. If you have any suggestions, I'd love to hear them.
> Thanks
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> Onwards and Upwards,
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7874. Re: [GPSL] EOSS-154 / GPSL 2010 recap video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 03:18:18 UTC
From: Michael Willett
Topic: 7863 Message: 7874

Great Video Rick! Super nice job! Wonderful shots from the payload and on the ground!

Based on the EOSS flight, ARBONET should have been looking in Nebraska for our payload!

We were at 99,783 ft at about the same latitude of burst and a descent rate of 584 ft at the lower altitudes... That would put us up /north / northwest of McPherson. Darn APRS!

I did find two more log entries that put us in line headed north east just east of the Windom cemetery.

Can anyone plot the landing zone based on EOSS's decent data as applied to ARBONET with 1 3/4 lbs payload and 5' chute?

The simulations by myself and others put us in way too close to and south of 56 and that now appears to be way off.

Louise and I almost headed north this weekend to look some more, and based on EOSS's flight, I am glad we didn't! :)

--Michael K5NOT

On 7/31/2010 11:13 AM, Mike Manes wrote:
>
> Wow, Rick,
>
> What a great video!
>
> http://www.eoss.org/ansrecap/ar_160/recap154.htm
> (Scroll down near the bottom of the page)
>
> EOSS's very own Steven Spielberg :-).
>
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7875. Re: [GPSL] 20 years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 04:34:00 UTC
From: Joe
Topic: 7869 Message: 7875

On 7/31/2010 9:56 PM, L. Paul Verhage wrote:
Also, a tethered balloon is more useful than a free floater. I can foresee large platforms tethered with carbon nanotube cables.

How would you tether one in 100 MPh winds?

Just something that seems terribly hard to do when i know what o a tethered one does in only 25MPh winds.

Joe WB9SBD

7876. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 09:46:50 UTC
From: Keith Kaiser
Topic: 7867 Message: 7876

NSV flew ashes inside the balloon, hence distributed ashes of my dad this way a couple of years ago. Deb and I expect the same when our time comes.

On Jul 31, 2010, at 10:06 PM, Zack Clobes wrote:

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7877. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 14:43:18 UTC
From: Joe
Topic: 7867 Message: 7877
Attachments: 1 described; binary payloads are missing from this source WARC

We thought of this probably 15 years ago, And even contacted ohhh say
50 Funeral services around us here about developing such a service,and
not one was interested.

I thought about it again a few years ago, and did some more searching on
it. as far as rules and regulations, and there really isn't any.

The only restrictions I found are two. One is similar to our catch all
Far rule about not making a hazard to thos below. Like if you were to
spread at a low altitude over a large group of people.

As far as the Feds go the only rule they had was that if you were to
spread over federal lands Like National parks etc. you need to get a
permit for it.

But also in doing this ressearch I did find one guy that is doing it
already commercially.

But at a HUGE cost.

He only sends a few ounces of ashes aloft, and charges several thousand
dollars for the service!

Plus he doen't have a clue as to how the balloons work, i love this quote,

So what happens to the balloon?

After its release, the balloon travels to an altitude of approximately
five miles. At that height the temperature is 40 degrees below zero. The
balloon simple crystalizes and fractures, scattering the ashes to the
four winds.

Here is his web page,
http://eternalascent.com/index.html

Take Care Everyone!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

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7878. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 15:17:24 UTC
From: L. Paul Verhage
Topic: 7867 Message: 7878
Attachments: 1 described; binary payloads are missing from this source WARC

They have patented this process!!!

They claimm to only send ashes to 30,000 feet. measley.

Okay, what I am going to post is a process of dumping ashes overboard from 100,000 feet. It will be made public and cannot be patented.

Okay, it's the process. Cups holding the ashes are mounted to a servo. While the cup is in the upright position, it is covered by a lid. When tipped to a 90 degree angle, the lid comes off and the ashes spill out. The mechanism must be carried on 3000 gram balloon and video taped with a digital camera.

I will write a sidebar for Nuts and Volts and post it to my Twitter account and blog.

Anyhow, anyone is free to use it. I'll make up diagrams and post them shortly.

Paul

On Sun, Aug 1, 2010 at 9:43 AM, Joe <nss@...> wrote:

> We thought of this probably 15 years ago, And even contacted ohhh say 50
> Funeral services around us here about developing such a service,and not one
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> But at a HUGE cost.
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> He only sends a few ounces of ashes aloft, and charges several thousand
> dollars for the service!
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> Plus he doen't have a clue as to how the balloons work, i love this quote,
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> So what happens to the balloon?
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> After its release, the balloon travels to an altitude of approximately five
> miles. At that height the temperature is 40 degrees below zero. The balloon
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> Project: Traveler
> www.projecttraveler.org
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>> ARHAB group taking the initiative to make and fly a small SPB by 2015.
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7879. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 15:29:29 UTC
From: Joe
Topic: 7867 Message: 7879
Attachments: 2 described; binary payloads are missing from this source WARC

No he only patented the Filling unit. How to place the ashes in the balloon and fill it and transport it filled to the release site. so that if there should be a premature pop that the ashes dont go all over the place. they are contained in this patented trailer more or less.

He has it like when apollo examined the Moon rocks. a sealed trailer with the goofy arms to handle stuff so that the room remains sealed etc. Thats what he patented.

The Original Rolling Ball Clock
Idle Tyme
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7880. HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 16:35:45 UTC
From: Pete Lilja
Topic: 7880 Message: 7880

I've sorta been bit by the bug and am a now balloonatic. I've been bouncing around the idea of approaching a local school district with the prospect of getting HABing started there. One school is now starting an 'Academy' format with technology being one of the disciplines. I'm sure I can get an audience with the school as I know several people that work there. What I need is ideas for a presentation to sell the idea...

While it might be a big project and maybe more than I'd like to tackle what I'm thinking is:

Offering to assist interested kids with obtaining a Tech Ham ticket.
Kids building a payload box
Assemblng a camera payload (CHDK and associated scripting)
Radios, TNC, GPS both aloft and ground tracking
ARDFing (back-up)
Weather and atmoshperic study

Everything would, of course, be focused on and culminate with a HAB flight and recovery.

Has anyone done anything similar with high school kids? I envision this as a semester long project which, with a good core of interested students, be easily doable in that kind of time frame.

I'd also think it would be easy enough to get donations of lifting gas and maybe even money for radios, cameras and payload box supplies.

I'd appreciate any discussion here of ideas, similar experiences, successes, pitfalls, what I'm missing, etc.

Thanks!

Pete
KC0GPB

7881. RE: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 17:09:02 UTC
From: Earl Foster
Topic: 7880 Message: 7881

Pete,
One problem I ran across here in Texas was liability insurance. I went to a number of universities and high schools in the DFW area and while the science teachers were really interested they were stopped by their legal departments. Some of the instructors are still trying to work something out but it has been almost 2 years.

-earl
www.hapb.net

To: GPSL@yahoogroups.com
From: plilja@...
Date: Sun, 1 Aug 2010 11:35:45 -0500
Subject: [GPSL] HAB in the High School

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7882. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 17:28:06 UTC
From: Mark Conner
Topic: 7880 Message: 7882

In addition to (or instead of) donations, you could approach the Iowa Space Grant Consortium which might fund this sort of educational venture.

73 de Mark N9XTN

On Sun, Aug 1, 2010 at 11:35, Pete Lilja <plilja@...> wrote:

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> Pete
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7883. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 18:30:51 UTC
From: Brenden Geary
Topic: 7880 Message: 7883

Hey guys I am entering the 8th grade this year, do you know of a way for me to get funding? You can check out my site at www.BrendenGeary.com The links I have seen so far are for high school and beyond. My dad has been funding most of my projects, with some donations from others.

I wish I could have been at GPSL this year, but my dad says we will be in Pueblo for next years GPSL.

Brenden
KJ6HVP

--- On Sun, 8/1/10, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] HAB in the High School
To: GPSL@yahoogroups.com
Date: Sunday, August 1, 2010, 10:28 AM

In addition to (or instead of) donations, you could approach the Iowa Space Grant Consortium which might fund this sort of educational venture.

73 de Mark N9XTN

On Sun, Aug 1, 2010 at 11:35, Pete Lilja <plilja@...> wrote:

I've sorta been bit by the bug and am a now balloonatic. I've been bouncing around the idea of approaching a local school district with the prospect of getting HABing started there. One school is now starting an 'Academy' format with technology being one of the disciplines. I'm sure I can get an audience with the school as I know several people that work there. What I need is ideas for a presentation to sell the idea...

While it might be a big project and maybe more than I'd like to tackle what I'm thinking is:

Offering to assist interested kids with obtaining a Tech Ham ticket.
Kids building a payload box
Assemblng a camera payload (CHDK and associated scripting)
Radios, TNC, GPS both aloft and ground tracking
ARDFing (back-up)
Weather and atmoshperic study

Everything would, of course, be focused on and culminate with a HAB flight and recovery.

Has anyone done anything similar with high school kids? I envision this as a semester long project which, with a good core of interested students, be easily doable in that kind of time frame.

I'd also think it would be easy enough to get donations of lifting gas and maybe even money for radios, cameras and payload box supplies.

I'd appreciate any discussion here of ideas, similar experiences, successes, pitfalls, what I'm missing, etc.

Thanks!

Pete
KC0GPB

7884. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 20:38:39 UTC
From: Brenden Geary
Topic: 7880 Message: 7884

I would also like to ask what is everyone using to to track temp, inside & outside the payload, also what are about barometric pressure. If you are recording pressure and temp are you storing that in the payload or sending it to a base station?

Thanks,
Brenden
KJ6HVP

--- On Sun, 8/1/10, Brenden Geary <bjgeary@...> wrote:

From: Brenden Geary <bjgeary@yahoo.com>
Subject: Re: [GPSL] HAB in the High School
To: GPSL@yahoogroups.com
Date: Sunday, August 1, 2010, 11:30 AM

Hey guys I am entering the 8th grade this year, do you know of a way for me to get funding? You can check out my site at www.BrendenGeary. com The links I have seen so far are for high school and beyond. My dad has been funding most of my projects, with some donations from others.

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Thanks!

Pete
KC0GPB

7885. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 21:58:32 UTC
From: Mike Manes
Topic: 7867 Message: 7885

Hi Mark,

The NOAA profiler, aka "Aircore", has two parts:

1. The airborne portion is 100 m length of about 1/4" OD tubing, coiled up and sealed at one end with a valve at the other. The tube is filled with a standard 380 ppm concentration of CO2 and air. Just before launch, the valve is opened, so that the tube vents during ascent. Now, during descent, the tube refills with ambient air, forming the gaseous equivalent of a core sample. On landing the valve is closed, thus sealing off the core sample. Due to the internal dimensions of the tube, the CO2 concentration of the core sample retains its structure, since diffusion is relatively slow in that long, skinny enclosure.

2. After the flight, the tube is connected to a very sensitive IR spectrometer, and the core sample is then pushed out from the end opposite from the flight valve using 380 ppm air. The spectrometer is tuned to absorption line(s) of the gas species of interest. The 380 ppm "push" gas serves as an "eof" marker.

If the aircore sample get to the lab within 24 hours, the CO2 concentration can be resolved with a resolution of 10 m in altitude with a precision of better than 1 ppm. As one can understand, high confidence in a timely recovery after landing is a key requirement.

Now, I've heard that there are some folks working on real-time in situ CO2 analyzers, and EOSS might be flying some of those by 'n by.

73 de Mike W5VSI

On 7/31/2010 21:16, Mark Conner wrote:
>
>
> Mike,
>
> Any details on the CO2 sensors? The company I work for has some interest in
> balloon-borne CO2 sensor profiles.
>
> Still hoping someday to combine hobby and work.....
>
> 73 de Mark N9XTN
>
> On Sat, Jul 31, 2010 at 21:58, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
>
>
>

> EOSS has flown several in situ atmospheric CO2 and CH4 profilers for NOAA, and
> some of the results have been quite revealing.
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7886. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 22:08:26 UTC
From: Mark Conner
Topic: 7867 Message: 7886

Very interesting, thanks Mike. I can buy a concentration precision (maybe even accuracy) of 1 ppm with their method, but I think 10m vertical precision is asking a lot from the sampling method. They can generate that precision, but I'd have my doubts on the accuracy.

Anyway, now I can Google for more ("NOAA aircore profiler") and I see a few hits worth investigating already. Seems a simple enough process and may be worth showing to some atmospheric science types at Creighton or NU.

73 de Mark N9XTN

On Sun, Aug 1, 2010 at 16:58, Mike Manes <mrmanes@...> wrote:

> Hi Mark,
>
> The NOAA profiler, aka "Aircore", has two parts:
>
> 1. The airborne portion is 100 m length of about 1/4" OD tubing, coiled up
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> sealed at one end with a valve at the other. The tube is filled with a
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> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

7887. Re: [GPSL] 20 years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 22:12:38 UTC
From: Mike Manes
Topic: 7869 Message: 7887

I rather doubt that tethered near space balloons will emerge until
after teleportation displaces air travel. Until then, they'd serve
more as the barrage balloons deployed for air defense in WW I & II.
73 de Mike W5VSI

On 7/31/2010 22:34, Joe wrote:
>
> On 7/31/2010 9:56 PM, L. Paul Verhage wrote:
> Also, a tethered balloon is more useful than a free floater. I can
> foresee large platforms tethered with carbon nanotube cables.
>
> How would you tether one in 100 MPh winds?
>
> Just something that seems terribly hard to do when i know what o a
> tethered one does in only 25MPh winds.
>
> Joe WB9SBD
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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7888. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 22:49:11 UTC
From: Mike Manes
Topic: 7880 Message: 7888

Hi Pete,

EOSS used to do a lot of local middle and high school flights. One of
the coolest projects was an ozone sampler created by some 5th grade kids
in Pueblo CO. They used a PE refrigerator jar with a hinged, spring-loaded
lid enclosing piece of ozone-sensitive colorimetric paper and a party balloon
partially inflated such that it would open the lid above about 50K' and let
it close on decent.

It worked! After recovery, the kids read the ozone paper, and it matched
the NWS satellite data taken that day!

We've also showed kids how to plot DF bearings on a map and use 'em to
track the balloon in flight. Nice project for a small team of kids.

More recently, we flew a peanut butter jar filled with dry lima beans for
an elementary school. After recovery, they planted the beans alongside
another set that stayed on the deck to see what exposure to the near-space
environment might have.

Another popular flight lets the kids do 3rd party QSOs thru the crossband
repeater.

And of course, all that exposure to ham radio can't help but intrigue a
few kids to get their ham tickets.

73 de Mike W5VSI

On 8/1/2010 10:35, Pete Lilja wrote:
>
>
> I've sorta been bit by the bug and am a now balloonatic. I've been bouncing
> around the idea of approaching a local school district with the prospect of
> getting HABing started there. One school is now starting an 'Academy' format
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> Everything would, of course, be focused on and culminate with a HAB flight and
> recovery.

> Has anyone done anything similar with high school kids? I envision this as a
> semester long project which, with a good core of interested students, be
> easily doable in that kind of time frame.
> I'd also think it would be easy enough to get donations of lifting gas and
> maybe even money for radios, cameras and payload box supplies.
> I'd appreciate any discussion here of ideas, similar experiences, successes,
> pitfalls, what I'm missing, etc.
> Thanks!
> Pete
> KC0GPB
>
>
>

--
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7889. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-01 23:50:01 UTC
From: Mike Manes
Topic: 7880 Message: 7889

Good point, Mark,

Colorado Space Grant has kept EOSS flying for over 10 years. You might also look into possible outreach programs. Colo SGC got U. Colo involved in the "Upward Bound" program for disadvantaged Native American HS students. One of the program track includes building and flying balloonsats. We carried up 13 of 'em earlier this year, plus our two tracking beacons - quite an impressive flight string!

73 de Mike W5VSI

On 8/1/2010 11:28, Mark Conner wrote:
>
>
> In addition to (or instead of) donations, you could approach the Iowa Space
> Grant Consortium which might fund this sort of educational venture.
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> 73 de Mark N9XTN
>
> On Sun, Aug 1, 2010 at 11:35, Pete Lilja <plilja@...
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7890. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 00:03:31 UTC
From: Mike Manes
Topic: 7880 Message: 7890

Hi Brendan,

Have you talked with the science teachers at your school? They may have
some budget for a small balloon flight so long as you share it with others.

73 de Mike W5VSI
CTO EOSS

On 8/1/2010 12:30, Brenden Geary wrote:
>
>
> Hey guys I am entering the 8th grade this year, do you know of a way for me to
> get funding? You can check out my site at www.BrendenGeary.com The links I
> have seen so far are for high school and beyond. My dad has been funding most
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> --- On *Sun, 8/1/10, Mark Conner /<mconner1@...>/* wrote:
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> From: Mark Conner <mconner1@...>
> Subject: Re: [GPSL] HAB in the High School
> To: GPSL@yahoogroups.com
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> 73 de Mark N9XTN
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7891. Re: [GPSL] 5 Years from Now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 00:27:26 UTC
From: Mike Manes
Topic: 7867 Message: 7891

Dr Peiter Tans of NOAA developed the Aircore and has both analysis and empirical data to show the vertical resolution. I can send you his email address if you want more than I passed on off the top of my head.
73 de Mike W5VSI

On 8/1/2010 16:08, Mark Conner wrote:
> Very interesting, thanks Mike. I can buy a concentration precision (maybe
> even accuracy) of 1 ppm with their method, but I think 10m vertical precision
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> On Sat, Jul 31, 2010 at 21:58, Mike Manes <mrmanes@...
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> <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
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> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
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> A. Einstein
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7892. Lastest Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 05:18:13 UTC
From: L. Paul Verhage
Topic: 7892 Message: 7892

While not to the level of EOSS, I've produced another video animation of clouds over Topeka. This is my best to date,
http://www.youtube.com/watch?v=CjP4n5vHxM4

--
Onwards and Upwards,
Paul

7893. eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 15:03:55 UTC
From: Mark Caviezel
Topic: 7893 Message: 7893

'eternal ascent'

Hey, I thought *I* thought up the idea of balloon cremains scattering.
But my thought was to use a fast ascending 'blimpie' balloon:

http://global-western.com/Non-Standard_Ascent_Rate_Balloons.html

and dump the cremains by timer when the balloon gets to float, allowing the surviving relatives to see the release. This is of course tricky with winds aloft, sun angle, trajectory, haze, cloud cover, etc. I wonder how much business the 'eternal ascent' people do and if it in any way pays for the cost of the patent.

best regards,

- Mark ng0x

7894. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 16:10:33 UTC
From: Joe
Topic: 7893 Message: 7894
Attachments: 1 described; binary payloads are missing from this source WARC

wHEN i CHECKED ON IT, HE IS SELLING FRANCHISES, AND THAT ALONE IS TEN GRAND.

tHEN THE "sERVICE" crap cap lock,,

anyway, he like charged 5 or so years ago about 5 grand for the "Service" of your old grandaddy.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/2/2010 10:03 AM, Mark Caviezel wrote:
> 'eternal ascent'
>
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> - Mark ng0x
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> ------------------------------------
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> Yahoo! Groups Links
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7895. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 16:29:37 UTC
From: Mark Caviezel
Topic: 7893 Message: 7895

I haven't read the patent, but if it indeed does only cover the process of putting ashes into a latex balloon, then it is pretty darn easy to sidestep that technology by using a conventional payload/carry bin.

best

- Mark

7896. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 16:34:24 UTC
From: L. Paul Verhage
Topic: 7893 Message: 7896

Yep, I'd say load the ashes into a cup connected to a servo. At altitude, dump the ashes overboard. We can get them up higher than 30,000 feet, besides.

Paul

On Mon, Aug 2, 2010 at 11:29 AM, Mark Caviezel <kmcaviezel@...> wrote:

>
>
> I haven't read the patent, but if it indeed does only cover the process
> of putting ashes into a latex balloon, then it is pretty darn easy to
> sidestep that technology by using a conventional payload/carry bin.
>
> best
>
> - Mark
>
>
>
>

--
Onwards and Upwards,
Paul

7897. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 16:45:17 UTC
From: Mike Manes
Topic: 7893 Message: 7897

A claim that restrictive may have been imposed by the USPTO examiner to get around some prior art - which could already be public domain. That would show pretty fast with a read of the patent disclosure. uspto.gov works pretty well.

Got a patent number?

73 de Mike W5VSI

On 8/2/2010 10:29, Mark Caviezel wrote:
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> - Mark
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7898. Re: [GPSL] Lastest Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 17:07:44 UTC
From: Mike Manes
Topic: 7892 Message: 7898

That's the kind of cloud that I used to LOVE to fly around back in my
Waldo Pepper flying days with the Navy in the W. Pacific. Almost as
fun as 350 kt thru a canyon, but a LOT more forgiving if you brush a
wingtip :=).
73 de Mike W5VSI
EOSS

On 8/1/2010 23:18, L. Paul Verhage wrote:
>
>
> While not to the level of EOSS, I've produced another video animation of
> clouds over Topeka. This is my best to date,
> http://www.youtube.com/watch?v=CjP4n5vHxM4
>
> --
> Onwards and Upwards,
> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7899. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 17:41:05 UTC
From: Joe
Topic: 7893 Message: 7899
Attachments: 1 described; binary payloads are missing from this source WARC

here ya go,
http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fnetahtml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260

wow long url, heres the number,

5564260

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/2/2010 11:45 AM, Mike Manes wrote:
> A claim that restrictive may have been imposed by the USPTO examiner to
> get around some prior art - which could already be public domain. That
> would show pretty fast with a read of the patent disclosure. uspto.gov
> works pretty well.
>
> Got a patent number?
>
> 73 de Mike W5VSI
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> On 8/2/2010 10:29, Mark Caviezel wrote:
>>
>>
>> I haven't read the patent, but if it indeed does only cover the
>> process of
>> putting ashes into a latex balloon, then it is pretty darn easy to
>> sidestep
>> that technology by using a conventional payload/carry bin.
>>
>> best
>>
>> - Mark
>>
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>

7900. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 17:56:05 UTC
From: Jerry Gable
Topic: 7893 Message: 7900

Just put the parachute under the cup. Parachute slows ascent for a more "dignified final trip", balloon pops, parachute flips the cup, lid comes off and grandpa is spread over 3 states.

As an added bonus the same platform can be used to seed clouds:)

As a business I don't think you are going to get enough customers to make this viable. You would have to pay for an office and probably a motorcade to the launch site, along with music, chairs, etc to make it dignified.

Jerry

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Mon, August 2, 2010 9:34:24 AM
Subject: Re: [GPSL] eternal ascent

Yep, I'd say load the ashes into a cup connected to a servo. At altitude, dump the ashes overboard. We can get them up higher than 30,000 feet, besides.

Paul

On Mon, Aug 2, 2010 at 11:29 AM, Mark Caviezel <kmcaviezel@yahoo. com> wrote:

>
>
>I haven't read the patent, but if it indeed does only cover the process of
>putting ashes into a latex balloon, then it is pretty darn easy to sidestep that
>technology by using a conventional payload/carry bin.
>
>
>best
>
>- Mark
>
>
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>

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Onwards and Upwards,
Paul

7901. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 18:08:17 UTC
From: L. Paul Verhage
Topic: 7893 Message: 7901

You'd have to charge a bunch to make it work. Filling a balloon and letting it pop by itself would be cheaper. But I'm thinking you could return a video of the dumping in near space and charge more. Seeing space and the earth's horizon would be the killer app here.

Please note, I'm not trying to start a business doing this. I just need to come up with ideas for growth in the near space arena. I thought this was a neat idea that I had come up with until a bunch of other people told me they thought of the same thing (and that there is a business already doing something similar).
Paul "It's tough to predict the future" Verhage
On Mon, Aug 2, 2010 at 12:56 PM, Jerry Gable <jerrygable@...> wrote:

>
>
> Just put the parachute under the cup. Parachute slows ascent for a more
> "dignified final trip", balloon pops, parachute flips the cup, lid comes off
> and grandpa is spread over 3 states.
>
> As an added bonus the same platform can be used to seed clouds:)
>
> As a business I don't think you are going to get enough customers to make
> this viable. You would have to pay for an office and probably a motorcade
> to the launch site, along with music, chairs, etc to make it dignified.
>
> Jerry
>
> ------------------------------
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Mon, August 2, 2010 9:34:24 AM
> *Subject:* Re: [GPSL] eternal ascent
>
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>
> Yep, I'd say load the ashes into a cup connected to a servo. At altitude,
> dump the ashes overboard. We can get them up higher than 30,000 feet,
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> Paul
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> On Mon, Aug 2, 2010 at 11:29 AM, Mark Caviezel <kmcaviezel@yahoo. com<kmcaviezel@...>
> > wrote:
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>> - Mark
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

7902. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 18:15:15 UTC
From: Mike Manes
Topic: 7893 Message: 7902

Thanks, Joe.

Independent Claim 1 pretty well describes what some have proposed:

--- clip ---
1. A method for the dispersal of cremated remains comprising the steps of:

depositing a quantity of cremated remains into a balloon having dimensions preselected to contain sufficient quantity of gas to lift said quantity of remains to an altitude at which said balloon will burst from decreased exterior air pressure;

filling said balloon with at least said quantity of gas;

sealing said remains within said balloon;

transporting said balloon to a preselected launch site; and

releasing said balloon.
--- clip ---

Remaining Claims 2 & 3 are dependent. So if one wanted to work around this patent before it goes public in 3 years, just don't put the cremains >inside< the balloon envelope. Sort of what K-Mark said.

Full disclosure: I'm NOT a patent attorney - just got a few under my belt.

Me? I'm hoping to push up daisies at Ft Logan Nat'l Cemetery here in Denver.

73 de Mike W5VSI

On 8/2/2010 11:41, Joe wrote:
> here ya go,
> http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fnetahtml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260
>
> wow long url, heres the number,
>
> 5564260
>
> Joe WB9SBD
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> The Original Rolling Ball Clock
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>>>
>>>
>>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7903. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 18:15:08 UTC
From: Jerry Gable
Topic: 7893 Message: 7903

So he is patening the filling system more than anything. The problem he is solving if you put grandpa in the balloon and it bursts during fill how do you recover grandpa? Blasting him all over the loved ones at the launch site would be a nightmare. SInce it is a fully enclosed system the size of the balloon is limited so that is probably why the low altitude.

A separate container should be cleaner and safer.

The other issue is the percieved littering of a balloon and container.
Bio-degradable parachute and string?

Jerry

From: Joe <nss@mwt.net>
To: Mike Manes <mrmanes@...>
Cc: GPSL@yahoogroups.com; Mark Caviezel <kmcaviezel@...>
Sent: Mon, August 2, 2010 10:41:05 AM
Subject: Re: [GPSL] eternal ascent

here ya go,
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wow long url, heres the number,

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Joe WB9SBD

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>On 8/2/2010 10:29, Mark Caviezel wrote:
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>>I haven't read the patent, but if it indeed does only cover the process of
>>putting ashes into a latex balloon, then it is pretty darn easy to sidestep
>>that technology by using a conventional payload/carry bin.
>>
>>best
>>
>>- Mark
>>
>>
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>>
>>

7904. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 18:18:56 UTC
From: Joe
Topic: 7893 Message: 7904
Attachments: 1 described; binary payloads are missing from this source WARC

You need your Flux Capacitor!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/2/2010 1:08 PM, L. Paul Verhage wrote:
>
>
> You'd have to charge a bunch to make it work. Filling a balloon and
> letting it pop by itself would be cheaper. But I'm thinking you could
> return a video of the dumping in near space and charge more. Seeing
> space and the earth's horizon would be the killer app here.
> Please note, I'm not trying to start a business doing this. I just
> need to come up with ideas for growth in the near space arena. I
> thought this was a neat idea that I had come up with until a bunch of
> other people told me they thought of the same thing (and that there is
> a business already doing something similar).
> Paul "It's tough to predict the future" Verhage
> On Mon, Aug 2, 2010 at 12:56 PM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
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>
>
> Just put the parachute under the cup. Parachute slows ascent for
> a more "dignified final trip", balloon pops, parachute flips the
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> As an added bonus the same platform can be used to seed clouds:)
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> As a business I don't think you are going to get enough customers
> to make this viable. You would have to pay for an office and
> probably a motorcade to the launch site, along with music, chairs,
> etc to make it dignified.
>
> Jerry
>
> ---
> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Mon, August 2, 2010 9:34:24 AM
> *Subject:* Re: [GPSL] eternal ascent
>

> Yep, I'd say load the ashes into a cup connected to a servo. At
> altitude, dump the ashes overboard. We can get them up higher
> than 30,000 feet, besides.
> Paul
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> On Mon, Aug 2, 2010 at 11:29 AM, Mark Caviezel <kmcaviezel@yahoo.
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> Onwards and Upwards,
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> Onwards and Upwards,
> Paul
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7905. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 18:24:20 UTC
From: L. Paul Verhage
Topic: 7893 Message: 7905

This is why I think you should use a cup that's dumper over the side with a servo. The arm the cup is mounted to swings far enough over the side that your dear departed pet rabbit doesn't get dumped on equipment. The lack of air will ensure the ashes drop away like a rock, rather than billow over the edge.

Or how about saving the cremation service and just dumping the body overboard like a burial at sea? Nawwwwww.

Or what about a compressed air cannon. Muffy could be loaded into the barrel like a shot gun shell. In near space a compressed air cylinder would fire the ashes up and away.

Paul

On Mon, Aug 2, 2010 at 1:15 PM, Jerry Gable <jerrygable@...> wrote:

>
>
> So he is patening the filling system more than anything. The problem he
> is solving if you put grandpa in the balloon and it bursts during fill how
> do you recover grandpa? Blasting him all over the loved ones at the launch
> site would be a nightmare. SInce it is a fully enclosed system the size of
> the balloon is limited so that is probably why the low altitude.
>
> A separate container should be cleaner and safer.
>
> The other issue is the percieved littering of a balloon and container.
> Bio-degradable parachute and string?
>
> Jerry
>
> ------------------------------
> *From:* Joe <nss@...>
> *To:* Mike Manes <mrmanes@...>
> *Cc:* GPSL@yahoogroups.com; Mark Caviezel <kmcaviezel@...>
> *Sent:* Mon, August 2, 2010 10:41:05 AM
> *Subject:* Re: [GPSL] eternal ascent
>
> here ya go,
>
> http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fnetahtml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260
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> wow long url, heres the number,
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>
> best
>
> - Mark
>
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Onwards and Upwards,
Paul

7906. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 20:46:54 UTC
From: Mike Manes
Topic: 7893 Message: 7906

See my earlier. The patent covers inserting the cremains in the balloon envelope and letting it burst. No mention of a parachute or recovery, but the disclosure discusses use of a latex balloon due to its biodegrability.
73 de Mike W5VSI

On 8/2/2010 12:15, Jerry Gable wrote:
>
>
> So he is patening the filling system more than anything. The problem he is
> solving if you put grandpa in the balloon and it bursts during fill how do you
> recover grandpa? Blasting him all over the loved ones at the launch site would
> be a nightmare. SInce it is a fully enclosed system the size of the balloon is
> limited so that is probably why the low altitude.
> A separate container should be cleaner and safer.
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> Bio-degradable parachute and string?
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> *From:* Joe <nss@...>
> *To:* Mike Manes <mrmanes@...>
> *Cc:* GPSL@yahoogroups.com; Mark Caviezel <kmcaviezel@...>
> *Sent:* Mon, August 2, 2010 10:41:05 AM
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7907. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 21:25:32 UTC
From: Michael Willett
Topic: 7893 Message: 7907

After reaching a respectable height, the ashes are dumped along with seeds of flowers, eventually transforming the countryside into a flowering oasis. The payload then free falls to the ground impaling itself, an arrow pointed up to the heavens that says, "This sign attests to the fact that the ashes of [your favorite deceased here] were spread in the winds above, and may have needed a little help in the right direction!" :)

--Michael K5NOT

On 8/2/2010 3:46 PM, Mike Manes wrote:
>
> See my earlier. The patent covers inserting the cremains in the balloon
> envelope and letting it burst. No mention of a parachute or recovery, but
> the disclosure discusses use of a latex balloon due to its biodegrability.
> 73 de Mike W5VSI
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> On 8/2/2010 12:15, Jerry Gable wrote:
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> > So he is patening the filling system more than anything. The problem
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> > ----------
> > *From:* Joe <nss@... <mailto:nss%40mwt.net>>
> > *To:* Mike Manes <mrmanes@... <mailto:mrmanes%40gmail.com>>
> > *Cc:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>; Mark
> Caviezel <kmcaviezel@... <mailto:kmcaviezel%40yahoo.com>>
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> > *Subject:* Re: [GPSL] eternal ascent
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> > here ya go,
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> http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fnetaht

ml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260
> <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fnetah
tml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260>
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> >>> - Mark
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> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
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> "Things should be made as simple as possible, but not more so."
> A. Einstein

>
>

7908. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 21:28:44 UTC
From: L. Paul Verhage
Topic: 7893 Message: 7908

"Umm, what is this fine coating of dust on my picnic lunch? And why are there loose carraway seeds on my bun?"

Paul

On Mon, Aug 2, 2010 at 4:25 PM, Michael Willett <mw@...> wrote:

>
>
>
> After reaching a respectable height, the ashes are dumped along with seeds
> of flowers, eventually transforming the countryside into a flowering oasis.
> The payload then free falls to the ground impaling itself, an arrow pointed
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> > Jerry

> >
> > ---
> > *From:* Joe <nss@... <nss%40mwt.net>>
> > *To:* Mike Manes <mrmanes@... <mrmanes%40gmail.com>>
> > *Cc:* GPSL@yahoogroups.com <GPSL%40yahoogroups.com>; Mark Caviezel <
> kmcaviezel@... <kmcaviezel%40yahoo.com>>
> > *Sent:* Mon, August 2, 2010 10:41:05 AM
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ml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260
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> >> On 8/2/2010 10:29, Mark Caviezel wrote:
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> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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Onwards and Upwards,
Paul

7909. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 22:23:02 UTC
From: Mike Manes
Topic: 7893 Message: 7909

Yeah - imagine that impaling the rag top on your boss's Porche.

One thing to bear in mind, guys, is 14 CFR 101.7(b):

" No person operating any moored balloon, kite, unmanned rocket, or unmanned free balloon may allow an object to be dropped therefrom, if such action creates a hazard to other persons or their property."

Note that no one is exempt from the Dreaded 101.7 Catch 22 Rule.

Guess it all depends on whether one considers getting doused in cremains is hazardous - sheesh!

73 de Mike W5VSI

On 8/2/2010 15:25, Michael Willett wrote:
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> After reaching a respectable height, the ashes are dumped along with seeds of
> flowers, eventually transforming the countryside into a flowering oasis. The
> payload then free falls to the ground impaling itself, an arrow pointed up to
> the heavens that says, "This sign attests to the fact that the ashes of [your
> favorite deceased here] were spread in the winds above, and may have needed a
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>> > be a nightmare. SInce it is a fully enclosed system the size of the balloon is
>> > limited so that is probably why the low altitude.
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>> > The other issue is the percieved littering of a balloon and container.
>> > Bio-degradable parachute and string?
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>> > *From:* Joe <nss@... <mailto:nss%40mwt.net>>
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>> <kmcaviezel@... <mailto:kmcaviezel%40yahoo.com>>
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>> > *Subject:* Re: [GPSL] eternal ascent
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tml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260
>> <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fneta
html%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260>
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7910. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 22:29:11 UTC
From: Joe
Topic: 7893 Message: 7910
Attachments: 1 described; binary payloads are missing from this source WARC

I really would love to know how much it disperses (sp?) from 100K?

Thats where we thought,,, but never did the flight,, but was to xerox
copy up say a whole ream of paper into tiny like ticket tape parade
sized pieces with our contact information on them, and drop the
thousand from 100K just to see how far away some may have fluttered.

Be a fun and cheap experiment for some students!

Joe

The Original Rolling Ball Clock
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On 8/2/2010 5:23 PM, Mike Manes wrote:
> Yeah - imagine that impaling the rag top on your boss's Porche.
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> One thing to bear in mind, guys, is 14 CFR 101.7(b):
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> " No person operating any moored balloon, kite, unmanned rocket, or unmanned
> free balloon may allow an object to be dropped therefrom, if such action
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7911. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 22:47:13 UTC
From: Mike Manes
Topic: 7893 Message: 7911

Couldn't be any worse than KD4STH's "potato bomb" that he dropped over IA or KS a few years ago :=).

On 8/2/2010 16:29, Joe wrote:
> I really would love to know how much it disperses (sp?) from 100K?
>
> Thats where we thought,,, but never did the flight,, but was to xerox copy up
> say a whole ream of paper into tiny like ticket tape parade sized pieces with
> our contact information on them, and drop the thousand from 100K just to see
> how far away some may have fluttered.
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> Be a fun and cheap experiment for some students!
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>> Guess it all depends on whether one considers getting doused in cremains
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tahtml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=5564260.PN.&OS=PN/5564260&RS=PN/5564260>
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A. Einstein

7912. Re: [GPSL] eternal ascent

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 00:20:53 UTC
From: Roger Hammond
Topic: 7893 Message: 7912

We won't even talk about the particulate emissions that EPA might be
interested in...oh wait, that's the power plant employee in me talking.

;-)

Fugitive emissions.

Rog KC0MWM

On Mon, Aug 2, 2010 at 5:47 PM, Mike Manes <mrmanes@...> wrote:

> Couldn't be any worse than KD4STH's "potato bomb" that he dropped over IA
> or
> KS a few years ago :=).
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> On 8/2/2010 16:29, Joe wrote:
> > I really would love to know how much it disperses (sp?) from 100K?
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7913. Re: [GPSL] HAB in the High School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 00:29:21 UTC
From: ccccrnr@aim.com
Topic: 7880 Message: 7913

see if your school has any contacts to the Junior Academy of Science
http://www.amjas.org/

you'll also need to write up a really cool proposal

10years ago when I was in High School. The max they would give a student was a $300 grant
They also wanted to see lots of testing to demonstrate the Scientific Process.

Needless to say I didn't fly any balloons back then, as $300 doesn't cover enough flights to have "Statistical Relevance in the Scientific Process"
but if you can get a group project together things maybe different now.

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Brenden Geary <bjgeary@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Sun, Aug 1, 2010 9:33 am
Subject: Re: [GPSL] HAB in the High School

Hey guys I am entering the 8th grade this year, do you know of a way for me to get funding? You can check out my site at www.BrendenGeary.com The links I have seen so far are for high school and beyond. My dad has been funding most of my projects, with some donations from others.

I wish I could have been at GPSL this year, but my dad says we will be in Pueblo for next years GPSL.

Brenden
KJ6HVP

--- On Sun, 8/1/10, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] HAB in the High School
To: GPSL@yahoogroups.com
Date: Sunday, August 1, 2010, 10:28 AM

In addition to (or instead of) donations, you could approach the Iowa Space Grant Consortium which might fund this sort of educational venture.

73 de Mark N9XTN

On Sun, Aug 1, 2010 at 11:35, Pete Lilja <plilja@...> wrote:

I've sorta been bit by the bug and am a now balloonatic. I've been bouncing around the idea of approaching a local school district with the prospect of getting HABing started there. One school is now starting an 'Academy' format with technology being one of the disciplines. I'm sure I can get an audience with the school as I know several people that work there. What I need is ideas for a presentation to sell the idea...

While it might be a big project and maybe more than I'd like to tackle what I'm thinking is:

Offering to assist interested kids with obtaining a Tech Ham ticket.
Kids building a payload box
Assemblng a camera payload (CHDK and associated scripting)
Radios, TNC, GPS both aloft and ground tracking
ARDFing (back-up)
Weather and atmoshperic study

Everything would, of course, be focused on and culminate with a HAB flight and recovery.

Has anyone done anything similar with high school kids? I envision this as a semester long project which, with a good core of interested students, be easily doable in that kind of time frame.

I'd also think it would be easy enough to get donations of lifting gas and maybe even money for radios, cameras and payload box supplies.

I'd appreciate any discussion here of ideas, similar experiences, successes, pitfalls, what I'm missing, etc.

Thanks!

Pete
KC0GPB

7914. Popular Mechanics article on Michel Fournier and Felix Baumgartner freefall jump attempts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 03:26:06 UTC
From: Mark Conner
Topic: 7914 Message: 7914

http://www.popularmechanics.com/technology/aviation/safety/space-dive-the-race-to-jump-from-120000-feet

Now you know where Mark Caviezel and I spent several days in May. Despite the photo credit shown, I took the photo of Fournier in the article.

73 de Mark N9XTN

7915. APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-02 17:12:46 UTC
From: Al Wolfe
Topic: 7915 Message: 7915

I'm a veteran of several balloon chases dating back to the Wintrax days in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in tracking balloons. I have also seen remarkable growth in the abuse of the APRS system in tracking balloons and don't know whether it is ignorance or egocentricalism.

There have been several balloons lately aloft here in the Midwest with a path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the ground, it has no place while at any altitude. This is a very selfish path! It can cause every properly configured APRS station in an area of over 100,000 square mile to repeat the balloon packets. While no path at all would likely be fine, a path of Wide2-1 would probably not be considered abusive. This would only fire off the digis.

As I said a path with 1-x can certainly be useful near the ground when trying to find a downed package. The Tiny Trak can change paths with a simple contact closure. A simple anaroid or pressure switch would be all that's needed to change to a less abusive path at some fairly low altitude. Or some simple telecommand system could be used.

The APRS system has only a limited capacity and is shared by all the users. Ten or twelve years ago it would take weeks to accumulate 300 different stations in the log here. Now it often takes only a couple of hours to see that many. In many areas the digis are in nearly constant use. Eliminating the Wide1-1 balloon packets would certainly cut out some of the clamor.

Some have argued that balloons should use another frequency than 144.39. However, the infrastucture exists on 39 so it makes sense to use it. Just don't abuse it.

73,
Al, K9SI

7916. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 04:56:28 UTC
From: Brenden Geary
Topic: 7915 Message: 7916

Al,

I will be 14 in a few weeks so don't beat me up too bad but I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq

--- On Mon, 8/2/10, Al Wolfe <k9si@...> wrote:

From: Al Wolfe <k9si@...>
Subject: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days

in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in

tracking balloons. I have also seen remarkable growth in the abuse of the

APRS system in tracking balloons and don't know whether it is ignorance or

egocentricalism.

There have been several balloons lately aloft here in the Midwest with a

path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the

ground, it has no place while at any altitude. This is a very selfish path!

It can cause every properly configured APRS station in an area of over

100,000 square mile to repeat the balloon packets. While no path at all

would likely be fine, a path of Wide2-1 would probably not be considered

abusive. This would only fire off the digis.

As I said a path with 1-x can certainly be useful near the ground when

trying to find a downed package. The Tiny Trak can change paths with a

simple contact closure. A simple anaroid or pressure switch would be all

that's needed to change to a less abusive path at some fairly low altitude.

Or some simple telecommand system could be used.

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Some have argued that balloons should use another frequency than 144.39. However, the infrastucture exists on 39 so it makes sense to use it. Just don't abuse it.

73,

Al, K9SI

7917. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 05:11:54 UTC
From: Brenden Geary
Topic: 7915 Message: 7917

Al,

sorry I hit send by mistake...

I will be 14 in a few weeks so don't beat me up too bad. (I also have a big dad ;-) I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another random freq which I would monitor as a backup. I was told that the ham community would hang me for such a thing. If some is good more is better... OK so I do understand that every 10 seconds is crazy but I want concreat proof of the highest my balloon went, if you ping every minute or two then you have to guess... right? I can assure you that in my case it was ignorance not ego. APRS is somewhat of an art or blackmajac until you get into it. I think emails like yours will help bring awareness to the issue.

Brenden Geary
KJ6HVP
www.BrendenGeary.com

--- On Mon, 8/2/10, Brenden Geary <bjgeary@...> wrote:

From: Brenden Geary <bjgeary@yahoo.com>
Subject: Re: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Monday, August 2, 2010, 9:56 PM

Al,

I will be 14 in a few weeks so don't beat me up too bad but I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq

--- On Mon, 8/2/10, Al Wolfe <k9si@...> wrote:

From: Al Wolfe <k9si@...>
Subject: [GPSL] APRS abuse
To: GPSL@yahoogroups. com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days

in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in tracking balloons. I have also seen remarkable growth in the abuse of the APRS system in tracking balloons and don't know whether it is ignorance or egocentricalism.

There have been several balloons lately aloft here in the Midwest with a path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the ground, it has no place while at any altitude. This is a very selfish path! It can cause every properly configured APRS station in an area of over 100,000 square mile to repeat the balloon packets. While no path at all would likely be fine, a path of Wide2-1 would probably not be considered abusive. This would only fire off the digis.

As I said a path with 1-x can certainly be useful near the ground when trying to find a downed package. The Tiny Trak can change paths with a simple contact closure. A simple anaroid or pressure switch would be all that's needed to change to a less abusive path at some fairly low altitude. Or some simple telecommand system could be used.

The APRS system has only a limited capacity and is shared by all the users. Ten or twelve years ago it would take weeks to accumulate 300 different stations in the log here. Now it often takes only a couple of hours to see that many. In many areas the digis are in nearly constant use. Eliminating the Wide1-1 balloon packets would certainly cut out some of the clamor.

Some have argued that balloons should use another frequency than 144.39. However, the infrastucture exists on 39 so it makes sense to use it. Just don't abuse it.

73,

Al, K9SI

7918. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 05:26:18 UTC
From: dvpatterson@comcast.net
Topic: 7915 Message: 7918

Brenden:

Nobody that I've seen on this list gets mad at someone willing to learn - frequent beaconing with questionable path settings is a fairly common mistake, so don't sweat it (but do take the advice to heart). The motivation to find your equipment after you launch is a strong one, and the resulting beacon interval and path choices are understandable. Every once in a while an email like this is a good "heads up" to everyone on the list that we're using a resource (the APRS network) that exists as a result of each individual's love of the hobby.

Welcome to the club, don't give up, and good luck finding your most recent flight!

-David

KB9QLS

----- Original Message -----
From: "Brenden Geary " < bjgeary @...>
To: GPSL @ yahoogroups .com
Sent: Monday, August 2, 2010 11:11:54 PM
Subject: Re: [GPSL] APRS abuse

Al,

sorry I hit send by mistake...

I will be 14 in a few weeks so don't beat me up too bad. (I also have a big dad ;-) I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another random freq which I would monitor as a backup. I was told that the ham community would hang me for such a thing. If some is good more is better... OK so I do understand that every 10 seconds is crazy but I want concreat proof of the highest my balloon went, if you ping every minute or two then you have to guess... right? I can assure you that in my case it was ignorance not ego. APRS is somewhat of an art or blackmajac until you get into it. I think emails like yours will help bring awareness to the issue.

Brenden Geary
KJ6HVP
www . BrendenGeary .com

--- On Mon, 8/2/10, Brenden Geary < bjgeary @...> wrote:

From: Brenden Geary < bjgeary @yahoo.com>
Subject: Re: [GPSL] APRS abuse
To: GPSL @ yahoogroups .com

Date: Monday, August 2, 2010, 9:56 PM

Al,

I will be 14 in a few weeks so don't beat me up too bad but I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq

--- On Mon, 8/2/10, Al Wolfe <k9si@ arrl .net> wrote:

From: Al Wolfe <k9si@ arrl .net>
Subject: [GPSL] APRS abuse
To: GPSL @ yahoogroups . com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in tracking balloons. I have also seen remarkable growth in the abuse of the APRS system in tracking balloons and don't know whether it is ignorance or egocentricalism .

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73,
Al, K9SI

7919. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 06:31:11 UTC
From: wb8elk@aol.com
Topic: 7915 Message: 7919

Hi Brenden,

Glad to hear that high altitude ballooning got you into high altitude ballooning. Please feel free to ask for advice on setting up APRS fofr balloons here as some of the true pioneers in high altitude ballooning are on this list (this August 15th will be my 23rd year of ballooning).

As to using 144.39, 200 milliwatts is alll you need...10 watts is way overkill and uses up your batteries in short order....and WIDE2-1 is what most use for the path....also an update of just 1 minute is all that's needed....the combination of WIDE1-1, 10 second intervals along with 10 watts will definitely cause quite a lot of prob lems with the APRS network I would think.

Once again welcome to high altitude ballooning and amateur radio.

- Bill Brown WB8ELK

-----Original Message-----
From: Brenden Geary <bjgeary@...>
To: GPSL@yahoogroups.com
Sent: Mon, Aug 2, 2010 11:56 pm
Subject: Re: [GPSL] APRS abuse

Al,

I will be 14 in a few weeks so don't beat me up too bad but I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq

--- On Mon, 8/2/10, Al Wolfe <k9si@...> wrote:

From: Al Wolfe <k9si@...>
Subject: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days
in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in
tracking balloons. I have also seen remarkable growth in the abuse of the
APRS system in tracking balloons and don't know whether it is ignorance or
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path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the
ground, it has no place while at any altitude. This is a very selfish path!

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73,
Al, K9SI

7920. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 06:34:17 UTC
From: wb8elk@aol.com
Topic: 7915 Message: 7920

Glad to hear that high altitude ballooning got you into high altitude ballooning

I meant to type: Glad to hear the high altitude ballooning got you into amateur radio.

- Bill typing on a small netbook with tiny keys whiloe on vacation in Ohio

-----Original Message-----
From: wb8elk@...m
To: GPSL@yahoogroups.com
Sent: Tue, Aug 3, 2010 1:31 am
Subject: Re: [GPSL] APRS abuse

Hi Brenden,

Glad to hear that high altitude ballooning got you into high altitude ballooning. Please feel free to ask for advice on setting up APRS fofr balloons here as some of the true pioneers in high altitude ballooning are on this list (this August 15th will be my 23rd year of ballooning).

As to using 144.39, 200 milliwatts is alll you need...10 watts is way overkill and uses up your batteries in short order....and WIDE2-1 is what most use for the path....also an update of just 1 minute is all that's needed....the combination of WIDE1-1, 10 second intervals along with 10 watts will definitely cause quite a lot of prob lems with the APRS network I would think.

Once again welcome to high altitude ballooning and amateur radio.

- Bill Brown WB8ELK

-----Original Message-----
From: Brenden Geary <bjgeary@...>
To: GPSL@yahoogroups.com
Sent: Mon, Aug 2, 2010 11:56 pm
Subject: Re: [GPSL] APRS abuse

Al,

I will be 14 in a few weeks so don't beat me up too bad but I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each flight I was using a MT 8000 FA and every flight had there own problems but on the last flight I have not recovered at all. I took and passed my ham tech just so I can fly balloons, I really didn't have any interest in talking on the radio... this is changing slowly. So at first I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq

--- On Mon, 8/2/10, Al Wolfe <k9si@...> wrote:

From: Al Wolfe <k9si@...>
Subject: [GPSL] APRS abuse

To: GPSL@yahoogroups.com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in tracking balloons. I have also seen remarkable growth in the abuse of the APRS system in tracking balloons and don't know whether it is ignorance or egocentricalism.

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Al, K9SI

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Once again welcome to high altitude ballooning and amateur radio.

- Bill Brown WB8ELK

-----Original Message-----
From: Brenden Geary <bjgeary@...>
To: GPSL@yahoogroups.com
Sent: Mon, Aug 2, 2010 11:56 pm
Subject: Re: [GPSL] APRS abuse

Al,

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--- On Mon, 8/2/10, Al Wolfe <k9si@arrl.net> wrote:

From: Al Wolfe <k9si@...>
Subject: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Monday, August 2, 2010, 10:12 AM

I'm a veteran of several balloon chases dating back to the Wintrax days in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in tracking balloons. I have also seen remarkable growth in the abuse of the APRS system in tracking balloons and don't know whether it is ignorance or egocentricalism.

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73,
Al, K9SI

7921. Re: [GPSL] Popular Mechanics article on Michel Fournier and Felix Baumgartner freefall jump attempts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 14:26:49 UTC
From: Pete Lilja
Topic: 7914 Message: 7921

That's really cool, Mark. Thanks for posting the link.

I'm looking forward to seeing the outcome of both of these flights and it's
nice to know people on this list had a part.

Pete
KC0GPB

On Mon, Aug 2, 2010 at 10:26 PM, Mark Conner <mconner1@...> wrote:

>
>
>
> http://www.popularmechanics.com/technology/aviation/safety/space-dive-the-race-to-jump-f
rom-120000-feet
>
> Now you know where Mark Caviezel and I spent several days in May. Despite
> the photo credit shown, I took the photo of Fournier in the article.
>
> 73 de Mark N9XTN
>
>
>

7922. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 14:29:23 UTC
From: L. Paul Verhage
Topic: 7915 Message: 7922

Part of that might be me. I'll check my TT3 program when I get home.

So Wide2-1 on ascent and Wide1-? for descent?

Paul

On Tue, Aug 3, 2010 at 1:34 AM, <wb8elk@...> wrote:

>
>
>
> Glad to hear that high altitude ballooning got you into high altitude
> ballooning
>
> I meant to type: Glad to hear the high altitude ballooning got you into
> amateur radio.
>
> - Bill typing on a small netbook with tiny keys whiloe on vacation in Ohio
>
>
>
> -----Original Message-----
> From: wb8elk@...
> To: GPSL@yahoogroups.com
> Sent: Tue, Aug 3, 2010 1:31 am
> Subject: Re: [GPSL] APRS abuse
>
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> Hi Brenden,
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> Glad to hear that high altitude ballooning got you into high altitude
> ballooning. Please feel free to ask for advice on setting up APRS fofr
> balloons here as some of the true pioneers in high altitude ballooning are
> on this list (this August 15th will be my 23rd year of ballooning).
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> As to using 144.39, 200 milliwatts is alll you need...10 watts is way
> overkill and uses up your batteries in short order....and WIDE2-1 is what
> most use for the path....also an update of just 1 minute is all that's
> needed....the combination of WIDE1-1, 10 second intervals along with 10
> watts will definitely cause quite a lot of prob lems with the APRS network I
> would think.
>
> Once again welcome to high altitude ballooning and amateur radio.
>
> - Bill Brown WB8ELK
>

>
>
>
>
>
> -----Original Message-----
> From: Brenden Geary <bjgeary@...>
> To: GPSL@yahoogroups.com
> Sent: Mon, Aug 2, 2010 11:56 pm
> Subject: Re: [GPSL] APRS abuse
>
>
> Al,
>
> I will be 14 in a few weeks so don't beat me up too bad but I have flown 3
> balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each
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> on the last flight I have not recovered at all. I took and passed my ham
> tech just so I can fly balloons, I really didn't have any interest in
> talking on the radio... this is changing slowly. So at first I wanted to
> transmit at 10watts every 10 seconds on 144.39 and another freq
>
> --- On *Mon, 8/2/10, Al Wolfe <k9si@...>* wrote:
>
>
> From: Al Wolfe <k9si@...>
> Subject: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Date: Monday, August 2, 2010, 10:12 AM
>
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> It can cause every properly configured APRS station in an area of over
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> abusive. This would only fire off the digis.
>
> As I said a path with 1-x can certainly be useful near the ground when
> trying to find a downed package. The Tiny Trak can change paths with a
> simple contact closure. A simple anaroid or pressure switch would be all
> that's needed to change to a less abusive path at some fairly low altitude.

>
> Or some simple telecommand system could be used.
>
> The APRS system has only a limited capacity and is shared by all the
> users. Ten or twelve years ago it would take weeks to accumulate 300
> different stations in the log here. Now it often takes only a couple of
> hours to see that many. In many areas the digis are in nearly constant use.
>
> Eliminating the Wide1-1 balloon packets would certainly cut out some of the
>
> clamor.
>
> Some have argued that balloons should use another frequency than 144.39.
> However, the infrastucture exists on 39 so it makes sense to use it. Just
> don't abuse it.
>
> 73,
> Al, K9SI
>
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--
Onwards and Upwards,
Paul

7923. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 14:56:52 UTC
From: Michael Willett
Topic: 7915 Message: 7923

This APRS topic as it relates to ARHABing is not widely publicized, but I have learned the following over the past year:

Wide2-1 or [EMPTY PATH FIELD] is for altitudes that are over a few thousand feet AGL (Above Ground Level), where the radio horizon can now hit several digi's.

EMPTY PATH FIELD means leave the path field blank in the config program.

Wide1-1, WIDE2-1 would be for under a few thousand feet where the radio horizon is a small foot print and the APRS needs help getting to a repeater or digi.

In sparse, very low population areas, where few digi's or repeaters exist, I might get more aggressive with the setting to let a bit of chaos out for the last few thousand feet with WIDE2-2.

If you are flying an Open Tracker or Tiny Track of late, some have the ability to do bank switching. You program the tracker to bank switch based on altitude.

If altitude < 2000 ft AGL, use bank 1, which is the same as bank 2 with the exception that the path is WIDE1-1, WIDE2-1 in that order.

If altitude is >2000 ft AGL, use bank 2, where the Path is [EMPTY PATH FIELD] for a metro-like area, or WIDE2-1 for a less dense area and never more than these two in most any other area.

The altitude to switch is debatable, but as a rule up to a few thousand AGL (Above Ground Level) should get the job done with WIDE1-1, and no path or WIDE2-1 will get the job done up higher.

So if you are in Denver, the altitude is about 5280 ft already, you would switch banks at say 6500 ft, because the radio horizon to the east, north and south increase rapidly on their own. Here in the Dallas area we are at around 650 ft ASL, so we would switch at 650 + 2000 or 2650 ft, I set mine for around 3000 just to make the APRS police perspire a bit, then go to no path or WIDE2-1 only. :)

--Michael K5NOT

On 8/3/2010 9:29 AM, L. Paul Verhage wrote:
> Part of that might be me. I'll check my TT3 program when I get home.
> So Wide2-1 on ascent and Wide1-? for descent?
> Paul
>
> On Tue, Aug 3, 2010 at 1:34 AM, <wb8elk@...
> <mailto:wb8elk@...>> wrote:

>
>
>
>
> Glad to hear that high altitude ballooning got you into high
> altitude ballooning
>
> I meant to type: Glad to hear the high altitude ballooning got
> you into amateur radio.
> - Bill typing on a small netbook with tiny keys whiloe on vacation
> in Ohio
>
>
>
> -----Original Message-----
> From: wb8elk@... <mailto:wb8elk@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Tue, Aug 3, 2010 1:31 am
> Subject: Re: [GPSL] APRS abuse
>
> Hi Brenden,
> Glad to hear that high altitude ballooning got you into high
> altitude ballooning. Please feel free to ask for advice on setting
> up APRS fofr balloons here as some of the true pioneers in high
> altitude ballooning are on this list (this August 15th will be my
> 23rd year of ballooning).
> As to using 144.39, 200 milliwatts is alll you need...10 watts
> is way overkill and uses up your batteries in short order....and
> WIDE2-1 is what most use for the path....also an update of just 1
> minute is all that's needed....the combination of WIDE1-1, 10
> second intervals along with 10 watts will definitely cause quite a
> lot of prob lems with the APRS network I would think.
> Once again welcome to high altitude ballooning and amateur radio.
> - Bill Brown WB8ELK
>
>
>
>
> -----Original Message-----
> From: Brenden Geary <bjgeary@... <mailto:bjgeary@...>>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Mon, Aug 2, 2010 11:56 pm
> Subject: Re: [GPSL] APRS abuse
>
> Al,
>
> I will be 14 in a few weeks so don't beat me up too bad but I have
> flown 3 balloon flights and I have used Wide1-1, Wide2-1 on each
> flight. On each flight I was using a MT 8000 FA and every flight
> had there own problems but on the last flight I have not recovered

> at all. I took and passed my ham tech just so I can fly balloons,
> I really didn't have any interest in talking on the radio... this
> is changing slowly. So at first I wanted to transmit at 10watts
> every 10 seconds on 144.39 and another freq
>
> --- On *Mon, 8/2/10, Al Wolfe /<k9si@...
> <mailto:k9si@...>>/* wrote:
>
>
> From: Al Wolfe <k9si@... <mailto:k9si@...>>
> Subject: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Date: Monday, August 2, 2010, 10:12 AM
>
> I'm a veteran of several balloon chases dating back to the
> Wintrax days
> in Indiana. I have seen a phenomenal growth in the use of GPS
> and APRS in
> tracking balloons. I have also seen remarkable growth in the
> abuse of the
> APRS system in tracking balloons and don't know whether it is
> ignorance or
> egocentricalism.
>
> There have been several balloons lately aloft here in the
> Midwest with a
> path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> useful near the
> ground, it has no place while at any altitude. This is a very
> selfish path!
> It can cause every properly configured APRS station in an area
> of over
> 100,000 square mile to repeat the balloon packets. While no
> path at all
> would likely be fine, a path of Wide2-1 would probably not be
> considered
> abusive. This would only fire off the digis.
>
> As I said a path with 1-x can certainly be useful near the
> ground when
> trying to find a downed package. The Tiny Trak can change
> paths with a
> simple contact closure. A simple anaroid or pressure switch
> would be all
> that's needed to change to a less abusive path at some fairly
> low altitude.
> Or some simple telecommand system could be used.
>
> The APRS system has only a limited capacity and is shared by
> all the

> users. Ten or twelve years ago it would take weeks to
> accumulate 300
> different stations in the log here. Now it often takes only a
> couple of
> hours to see that many. In many areas the digis are in nearly
> constant use.
> Eliminating the Wide1-1 balloon packets would certainly cut
> out some of the
> clamor.
>
> Some have argued that balloons should use another frequency
> than 144.39.
> However, the infrastucture exists on 39 so it makes sense to
> use it. Just
> don't abuse it.
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> 73,
> Al, K9SI
>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

7924. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 15:04:08 UTC
From: L. Paul Verhage
Topic: 7915 Message: 7924

The flight computer I'm about to market allows you to switch banks and uses
a PICAXE to do it. So it will allow the smart pathing, but I need
recommendations to put into the directions.

Thanks,
Paul

On Tue, Aug 3, 2010 at 9:56 AM, Michael Willett <mw@...> wrote:

>
>
>
> This APRS topic as it relates to ARHABing is not widely publicized, but I
> have learned the following over the past year:
>
> Wide2-1 or [EMPTY PATH FIELD] is for altitudes that are over a few
> thousand feet AGL (Above Ground Level), where the radio horizon can now hit
> several digi's.
>
> EMPTY PATH FIELD means leave the path field blank in the config program.
>
> Wide1-1, WIDE2-1 would be for under a few thousand feet where the radio
> horizon is a small foot print and the APRS needs help getting to a repeater
> or digi.
>
> In sparse, very low population areas, where few digi's or repeaters exist,
> I might get more aggressive with the setting to let a bit of chaos out for
> the last few thousand feet with WIDE2-2.
>
> If you are flying an Open Tracker or Tiny Track of late, some have the
> ability to do bank switching. You program the tracker to bank switch based
> on altitude.
>
> If altitude < 2000 ft AGL, use bank 1, which is the same as bank 2 with the
> exception that the path is WIDE1-1, WIDE2-1 in that order.
>
> If altitude is >2000 ft AGL, use bank 2, where the Path is [EMPTY PATH
> FIELD] for a metro-like area, or WIDE2-1 for a less dense area and never
> more than these two in most any other area.
>
> The altitude to switch is debatable, but as a rule up to a few thousand AGL
> (Above Ground Level) should get the job done with WIDE1-1, and no path or
> WIDE2-1 will get the job done up higher.
>
> So if you are in Denver, the altitude is about 5280 ft already, you would
> switch banks at say 6500 ft, because the radio horizon to the east, north

> and south increase rapidly on their own. Here in the Dallas area we are at
> around 650 ft ASL, so we would switch at 650 + 2000 or 2650 ft, I set mine
> for around 3000 just to make the APRS police perspire a bit, then go to no
> path or WIDE2-1 only. :)
>
> --Michael K5NOT
>
>
>
> On 8/3/2010 9:29 AM, L. Paul Verhage wrote:
>
>
> Part of that might be me. I'll check my TT3 program when I get home.
>
> So Wide2-1 on ascent and Wide1-? for descent?
>
> Paul
>
> On Tue, Aug 3, 2010 at 1:34 AM, <wb8elk@...> wrote:
>
>>
>>
>>
>> Glad to hear that high altitude ballooning got you into high altitude
>> ballooning
>>
>> I meant to type: Glad to hear the high altitude ballooning got you into
>> amateur radio.
>>
>> - Bill typing on a small netbook with tiny keys whiloe on vacation in Ohio
>>
>>
>>
>> -----Original Message-----
>> From: wb8elk@...
>> To: GPSL@yahoogroups.com
>> Sent: Tue, Aug 3, 2010 1:31 am
>> Subject: Re: [GPSL] APRS abuse
>>
>>
>> Hi Brenden,
>>
>> Glad to hear that high altitude ballooning got you into high altitude
>> ballooning. Please feel free to ask for advice on setting up APRS fofr
>> balloons here as some of the true pioneers in high altitude ballooning are
>> on this list (this August 15th will be my 23rd year of ballooning).
>>
>> As to using 144.39, 200 milliwatts is alll you need...10 watts is way
>> overkill and uses up your batteries in short order....and WIDE2-1 is what
>> most use for the path....also an update of just 1 minute is all that's

>> needed....the combination of WIDE1-1, 10 second intervals along with 10
>> watts will definitely cause quite a lot of prob lems with the APRS network I
>> would think.
>>
>> Once again welcome to high altitude ballooning and amateur radio.
>>
>> - Bill Brown WB8ELK
>>
>>
>>
>>
>>
>>
>> -----Original Message-----
>> From: Brenden Geary <bjgeary@...>
>> To: GPSL@yahoogroups.com
>> Sent: Mon, Aug 2, 2010 11:56 pm
>> Subject: Re: [GPSL] APRS abuse
>>
>>
>> Al,
>>
>> I will be 14 in a few weeks so don't beat me up too bad but I have flown 3
>> balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each
>> flight I was using a MT 8000 FA and every flight had there own problems but
>> on the last flight I have not recovered at all. I took and passed my ham
>> tech just so I can fly balloons, I really didn't have any interest in
>> talking on the radio... this is changing slowly. So at first I wanted to
>> transmit at 10watts every 10 seconds on 144.39 and another freq
>>
>> --- On *Mon, 8/2/10, Al Wolfe <k9si@...>* wrote:
>>
>>
>> From: Al Wolfe <k9si@...>
>> Subject: [GPSL] APRS abuse
>> To: GPSL@yahoogroups.com
>> Date: Monday, August 2, 2010, 10:12 AM
>>
>>
>> I'm a veteran of several balloon chases dating back to the Wintrax days
>> in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in
>> tracking balloons. I have also seen remarkable growth in the abuse of the
>> APRS system in tracking balloons and don't know whether it is ignorance or
>>
>> egocentricalism.
>>
>> There have been several balloons lately aloft here in the Midwest with a
>> path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the
>> ground, it has no place while at any altitude. This is a very selfish
>> path!

>> It can cause every properly configured APRS station in an area of over
>> 100,000 square mile to repeat the balloon packets. While no path at all
>> would likely be fine, a path of Wide2-1 would probably not be considered
>> abusive. This would only fire off the digis.
>>
>> As I said a path with 1-x can certainly be useful near the ground when
>> trying to find a downed package. The Tiny Trak can change paths with a
>> simple contact closure. A simple anaroid or pressure switch would be all
>> that's needed to change to a less abusive path at some fairly low
>> altitude.
>> Or some simple telecommand system could be used.
>>
>> The APRS system has only a limited capacity and is shared by all the
>> users. Ten or twelve years ago it would take weeks to accumulate 300
>> different stations in the log here. Now it often takes only a couple of
>> hours to see that many. In many areas the digis are in nearly constant
>> use.
>> Eliminating the Wide1-1 balloon packets would certainly cut out some of
>> the
>> clamor.
>>
>> Some have argued that balloons should use another frequency than 144.39.
>> However, the infrastucture exists on 39 so it makes sense to use it. Just
>> don't abuse it.
>>
>> 73,
>> Al, K9SI
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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

7925. Rantoul, Illinois Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 18:46:21 UTC
From: natewac@aol.com
Topic: 7925 Message: 7925

If nothing changes a balloon launch will take place Saturday, August 7 from Rantoul, Illinois . I'm looking to schedule a/some contacts from a couple of big gun Missouri stations to work the cross band repeater. Doing so may make some good standings in the ARHAB records (http://www.arhab.org/ARHABrecords.htm). Please email me at natewac@....

N8WAC, Tony

7926. Re: [GPSL] Rantoul, Illinois Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 19:14:54 UTC
From: BASE
Topic: 7925 Message: 7926
Attachments: 1 described; binary payloads are missing from this source WARC

Dear friends,
I'm attaching a simple .jpg that shows the approximate radio horizon for the BASE 49 flight on Saturday. This horizon is assuming a float altitude of 72 kft. At the moment, floating at that altitude could allow the system to land in west central Indiana. I may opt to do a non-floating flight with a slow climb and a much higher burst that could extend the radio horizon without dramatically shortening the time above 72 kft.
I'll attempt to share the final flight plan as early as I can, but it may not be known until late on Friday.
Thanks for the support,Howard

--- On Tue, 8/3/10, natewac@... <natewac@...> wrote:

From: natewac@aol.com <natewac@...>
Subject: [GPSL] Rantoul, Illinois Balloon
To: Balloon_Sked@yahoogroups.com, GPSL@yahoogroups.com
Date: Tuesday, August 3, 2010, 2:46 PM

If nothing changes a balloon launch will take place Saturday, August 7 from Rantoul, Illinois . I'm looking to schedule a/some contacts from a couple of big gun Missouri stations to work the cross band repeater. Doing so may make some good standings in the ARHAB records (http://www.arhab. org/ARHABrecords .htm). Please email me at natewac@aol. com.

N8WAC, Tony

7927. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 19:43:50 UTC
From: Mike Manes
Topic: 7915 Message: 7927

Hi Brendan,

EOSS has recovered 155 of its 155 payload stings to date over the past
20 years. During the first 5 years or so, GPS was beyond our reach, so
we relied strictly on 2m DF triangulation. The key here is to have
a tracking and recovery team deployed around the predicted landing site
when the balloon launches.

Since then, we were one of the first groups to fly a GPS-based APRS beacon.
On that first flight, we ran on 144.39, and ended up crashing the KPC-3 due
to the excessive amount of traffic that it heard at altitude. So we've moved
back down to 144.34 and arrange for some home-based I-gates to get us into
the "infrastructure" on every flight. It's no big deal. In fact, on most
flights, one of our trackers has to do no more than tune his home xcvr down
50 kHz before he leaves home.

Our APRS beacons have never run over 350 mW xmit power, and although we beacon
GGA every 30 sec for our own flights, we can back off to 60 sec for shared
freqs like at GPSL. This power level yields solid data out past 100 miles
downrange at altitude (Line of sight is a magic thing), and further confers
the benefit of extended operational life from a smaller, lighter battery.

Although I can understand wanting to know your peak altitude as precisely
as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m
every 10 sec. That's less than the VDOP of your GPS reading - sort of like
measuring with a micrometer and marking with chalk. Further, the only reason
I can think of to record peak altitude that precisely would be if you were
attempting to beat the current ARHAB record of over 128 K'. And if you're
hauling up enough batteries to support a 10W xmtr beaconing every 10 sec,
fugeddaboudit!

Further, one can get a pretty good estimate of one's actual peak altitude
by by finding the intersection of the ascent and descent regression lines
taken from the data just before and after burst. It's not guesswork - just
math.

73 de Mike W5VSI

On 8/2/2010 23:11, Brenden Geary wrote:
>
>
> Al,
>
> sorry I hit send by mistake...
>
> I will be 14 in a few weeks so don't beat me up too bad. (I also have a big
> dad ;-) I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on

> each flight. On each flight I was using a MT 8000 FA and every flight had
> there own problems but on the last flight I have not recovered at all. I took
> and passed my ham tech just so I can fly balloons, I really didn't have any
> interest in talking on the radio... this is changing slowly. So at first I
> wanted to transmit at 10watts every 10 seconds on 144.39 and another random
> freq which I would monitor as a backup. I was told that the ham community
> would hang me for such a thing. If some is good more is better... OK so I do
> understand that every 10 seconds is crazy but I want concreat proof of the
> highest my balloon went, if you ping every minute or two then you have to
> guess... right? I can assure you that in my case it was ignorance not ego.
> APRS is somewhat of an art or blackmajac until you get into it. I think emails
> like yours will help bring awareness to the issue.
>
> Brenden Geary
> KJ6HVP
> www.BrendenGeary.com
>
> --- On *Mon, 8/2/10, Brenden Geary /<bjgeary@...>/* wrote:
>
>
> From: Brenden Geary <bjgeary@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Date: Monday, August 2, 2010, 9:56 PM
>
> Al,
>
> I will be 14 in a few weeks so don't beat me up too bad but I have flown 3
> balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each
> flight I was using a MT 8000 FA and every flight had there own problems
> but on the last flight I have not recovered at all. I took and passed my
> ham tech just so I can fly balloons, I really didn't have any interest in
> talking on the radio... this is changing slowly. So at first I wanted to
> transmit at 10watts every 10 seconds on 144.39 and another freq
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> --- On *Mon, 8/2/10, Al Wolfe /<k9si@...>/* wrote:
>
>
> From: Al Wolfe <k9si@...>
> Subject: [GPSL] APRS abuse
> To: GPSL@yahoogroups. com
> Date: Monday, August 2, 2010, 10:12 AM
>
> I'm a veteran of several balloon chases dating back to the Wintrax days
> in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in
> tracking balloons. I have also seen remarkable growth in the abuse of the
> APRS system in tracking balloons and don't know whether it is
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> There have been several balloons lately aloft here in the Midwest with a
> path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the
> ground, it has no place while at any altitude. This is a very selfish
> path!
> It can cause every properly configured APRS station in an area of over
> 100,000 square mile to repeat the balloon packets. While no path at all
> would likely be fine, a path of Wide2-1 would probably not be considered
> abusive. This would only fire off the digis.
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> As I said a path with 1-x can certainly be useful near the ground when
> trying to find a downed package. The Tiny Trak can change paths with a
> simple contact closure. A simple anaroid or pressure switch would be all
> that's needed to change to a less abusive path at some fairly low
> altitude.
> Or some simple telecommand system could be used.
>
> The APRS system has only a limited capacity and is shared by all the
> users. Ten or twelve years ago it would take weeks to accumulate 300
> different stations in the log here. Now it often takes only a couple of
> hours to see that many. In many areas the digis are in nearly constant
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> Eliminating the Wide1-1 balloon packets would certainly cut out some
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> clamor.
>
> Some have argued that balloons should use another frequency than 144.39.
> However, the infrastucture exists on 39 so it makes sense to use it. Just
> don't abuse it.
>
> 73,
> Al, K9SI
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7928. balloon funerals

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 21:41:48 UTC
From: Steven Brower
Topic: 7928 Message: 7928

I am only adding this as it seems to be a topic of great interest to the group. Feel free to ask questions, but I admit it doesn't do much to bring the discussion closer to reality. However, this did happen, pretty much.http://browerpropulsionlab.com/directory/BPL_001_Funeral_Mission_for_Conrad_Carpenter

7929. balloon funerals

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 21:42:56 UTC
From: Steven Brower
Topic: 7928 Message: 7929

oops, hit send too fast- I'm Steven, KC2SQU

7930. Re: [GPSL] balloon funerals

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 21:48:21 UTC
From: L. Paul Verhage
Topic: 7928 Message: 7930

Were the ashes released?

Paul

On Tue, Aug 3, 2010 at 4:42 PM, Steven Brower <stevenbrower@...>wrote:

>
>
> oops, hit send too fast- I'm Steven, KC2SQU
>
>
>

--
Onwards and Upwards,
Paul

7931. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 22:18:14 UTC
From: Ed Moore
Topic: 7915 Message: 7931

Or just log the gps on your flight computer. You'll have at least 1hz altitude data that way, which is surely good enough- and certainly well beyond vdop as mike says.

Ed
CU Spaceflight

On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@...> wrote:

> Hi Brendan,
>
> EOSS has recovered 155 of its 155 payload stings to date over the past
> 20 years. During the first 5 years or so, GPS was beyond our reach, so
> we relied strictly on 2m DF triangulation. The key here is to have
> a tracking and recovery team deployed around the predicted landing site
> when the balloon launches.
>
> Since then, we were one of the first groups to fly a GPS-based APRS beacon.
> On that first flight, we ran on 144.39, and ended up crashing the KPC-3 due
> to the excessive amount of traffic that it heard at altitude. So we've moved
> back down to 144.34 and arrange for some home-based I-gates to get us into
> the "infrastructure" on every flight. It's no big deal. In fact, on most
> flights, one of our trackers has to do no more than tune his home xcvr down
> 50 kHz before he leaves home.
>
> Our APRS beacons have never run over 350 mW xmit power, and although we beacon
> GGA every 30 sec for our own flights, we can back off to 60 sec for shared
> freqs like at GPSL. This power level yields solid data out past 100 miles
> downrange at altitude (Line of sight is a magic thing), and further confers
> the benefit of extended operational life from a smaller, lighter battery.
>
> Although I can understand wanting to know your peak altitude as precisely
> as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m
> every 10 sec. That's less than the VDOP of your GPS reading - sort of like
> measuring with a micrometer and marking with chalk. Further, the only reason
> I can think of to record peak altitude that precisely would be if you were
> attempting to beat the current ARHAB record of over 128 K'. And if you're
> hauling up enough batteries to support a 10W xmtr beaconing every 10 sec,
> fugeddaboudit!
>
> Further, one can get a pretty good estimate of one's actual peak altitude
> by by finding the intersection of the ascent and descent regression lines
> taken from the data just before and after burst. It's not guesswork - just
> math.
>
> 73 de Mike W5VSI
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> On 8/2/2010 23:11, Brenden Geary wrote:
> >
> >
> > Al,
> >
> > sorry I hit send by mistake...
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> > I will be 14 in a few weeks so don't beat me up too bad. (I also have a big
> > dad ;-) I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on
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> > Brenden Geary
> > KJ6HVP
> > www.BrendenGeary.com
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> >
> >
> > From: Brenden Geary <bjgeary@...m>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups.com
> > Date: Monday, August 2, 2010, 9:56 PM
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> > I will be 14 in a few weeks so don't beat me up too bad but I have flown 3
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> >
> >
> > From: Al Wolfe <k9si@...>
> > Subject: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com

> > Date: Monday, August 2, 2010, 10:12 AM
> >
> > I'm a veteran of several balloon chases dating back to the Wintrax days
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."

> A. Einstein
>

7932. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-03 22:27:34 UTC
From: Zack Clobes
Topic: 7915 Message: 7932

That's what we've done in the past. We then transmit the detected peak
periodically via a telemetry string for the entire descent.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@...> wrote:

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> Or just log the gps on your flight computer. You'll have at least 1hz
> altitude data that way, which is surely good enough- and certainly well
> beyond vdop as mike says.
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> Ed
> CU Spaceflight
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> On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@...> wrote:
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> Hi Brendan,
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> a tracking and recovery team deployed around the predicted landing site
> when the balloon launches.
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> On that first flight, we ran on 144.39, and ended up crashing the KPC-3 due
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> back down to 144.34 and arrange for some home-based I-gates to get us into
> the "infrastructure" on every flight. It's no big deal. In fact, on most
> flights, one of our trackers has to do no more than tune his home xcvr down
> 50 kHz before he leaves home.
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> Our APRS beacons have never run over 350 mW xmit power, and although we
> beacon
> GGA every 30 sec for our own flights, we can back off to 60 sec for shared
> freqs like at GPSL. This power level yields solid data out past 100 miles
> downrange at altitude (Line of sight is a magic thing), and further confers
> the benefit of extended operational life from a smaller, lighter battery.

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> Although I can understand wanting to know your peak altitude as precisely
> as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m
> every 10 sec. That's less than the VDOP of your GPS reading - sort of like
> measuring with a micrometer and marking with chalk. Further, the only
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> I can think of to record peak altitude that precisely would be if you were
> attempting to beat the current ARHAB record of over 128 K'. And if you're
> hauling up enough batteries to support a 10W xmtr beaconing every 10 sec,
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> Further, one can get a pretty good estimate of one's actual peak altitude
> by by finding the intersection of the ascent and descent regression lines
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> > Date: Monday, August 2, 2010, 10:12 AM
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7933. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 01:10:35 UTC
From: ccccrnr@aim.com
Topic: 7915 Message: 7933

I have to respectfully disagree with most every thing said here.

Here in Missouri there is little digi or i-gate network. and around St Louis even with 1watt you very well might not get onto the internet driving around.

and most of the traffic is just weather beacons or digis balasting with 50 to 100Watts on 2 meter so most of the traffic doesn't care about congestion or missing a packet.

Also even in an area with a great Network like Kansas where GPSL was this year, not everything gets in.
Not a signal packet after we got on the ground made it into the network from a Fixed digi-igates, and we landed only a couple miles outside of McPhearson. So normally nothing would have been heard once we were on the ground, if it hadn't have been GPSL

Also the more hardware you fly you increase cost, weight, and batteries, you also decrease max altitude. Not to mention airtraffic filing concerns, and impact load should you hit a house or car on the ground.
There is also a responsibility to make sure you recover your gear and not litter on other unsuspecting land owners.

So levering the largely unused network out-there can make more sense that saying throw another couple hundred dollars in the payload for logging and forget it.

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Tue, Aug 3, 2010 1:28 pm
Subject: Re: [GPSL] APRS abuse

That's what we've done in the past. We then transmit the detected peak periodically via a telemetry string for the entire descent.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@...> wrote:

Or just log the gps on your flight computer. You'll have at least 1hz altitude data that way, which is surely good enough- and certainly well beyond vdop as mike says.

Ed
CU Spaceflight

On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@...> wrote:

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20 years. During the first 5 years or so, GPS was beyond our reach, so
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On that first flight, we ran on 144.39, and ended up crashing the KPC-3 due
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Although I can understand wanting to know your peak altitude as precisely
as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m
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7934. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 01:59:48 UTC
From: Jon Riley
Topic: 7915 Message: 7934

For a hobby that seems to be dieing off,he as well as others should be happy the frequency is being used.Last time I checked nobody OWNS a frequency,we all get to use it.

Jon Riley
AJ0NR--Project Traveler

--- On Tue, 8/3/10, ccccrnr@... <ccccrnr@...> wrote:

From: ccccrnr@... <ccccrnr@...>
Subject: Re: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Tuesday, August 3, 2010, 8:10 PM

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> path!
> It can cause every properly configured APRS station in an area of over
> 100,000 square mile to repeat the balloon packets. While no path at all
> would likely be fine, a path of Wide2-1 would probably not be considered
> abusive. This would only fire off the digis.
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> As I said a path with 1-x can certainly be useful near the ground when
> trying to find a downed package. The Tiny Trak can change paths with a
> simple contact closure. A simple anaroid or pressure switch would be all
> that's needed to change to a less abusive path at some fairly low
> altitude.
> Or some simple telecommand system could be used.
>
> The APRS system has only a limited capacity and is shared by all the
> users. Ten or twelve years ago it would take weeks to accumulate 300
> different stations in the log here. Now it often takes only a couple of
> hours to see that many. In many areas the digis are in nearly constant
> use.
> Eliminating the Wide1-1 balloon packets would certainly cut out some
> of the
> clamor.
>
> Some have argued that balloons should use another frequency than 144.39.
> However, the infrastucture exists on 39 so it makes sense to use it. Just
> don't abuse it.
>
> 73,
> Al, K9SI
>
>
>
>
>
>

--
Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7935. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 02:57:09 UTC
From: Brenden Geary
Topic: 7915 Message: 7935

Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham ticket so I can fly balloons. Yes I have had my issues and have lost a bunch of money in my last payload. Thanks to family and friends, some on this list, I will fly again on Sept 4. I plan on taking down the High School science fair, if they will let me in. I'm only entering the 8th grade but when I do take down the Science fair with my data and photos I expect to see more balloons next year. I started when I saw the two or three MIT students fly, so no I do not think it is dying I think it is just starting to take off.

I live in Southern California and trust me I can see the congestion on the APRS network. I thought I was being smart by trying to use a freq other than 144.39 like 154.39 and use my D700 to track it myself. I was told that I shouldn't do this because even if this freq is open in my area, it may not be when I get to altitude when my signal will go for 100's of miles. I this bogus info?

What are your thoughts

Brenden Geary
www.BrendenGeary.com
KJ6HVP

--- On Tue, 8/3/10, Jon Riley <aj0nr@...> wrote:

From: Jon Riley <aj0nr@...>
Subject: Re: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Date: Tuesday, August 3, 2010, 6:59 PM

For a hobby that seems to be dieing off,he as well as others should be happy the frequency is being used.Last time I checked nobody OWNS a frequency,we all get to use it.

Jon Riley
AJ0NR--Project Traveler

--- On Tue, 8/3/10, ccccrnr@aim. com <ccccrnr@aim. com> wrote:

From: ccccrnr@aim. com <ccccrnr@aim. com>
Subject: Re: [GPSL] APRS abuse
To: GPSL@yahoogroups. com
Date: Tuesday, August 3, 2010, 8:10 PM

I have to respectfully disagree with most every thing said here.

Here in Missouri there is little digi or i-gate network. and around St Louis even with 1watt you very well might not get onto the internet driving around.

and most of the traffic is just weather beacons or digis balasting with 50 to 100Watts on 2 meter so most of the traffic doesn't care about congestion or missing a packet.

Also even in an area with a great Network like Kansas where GPSL was this year, not everything gets in.
Not a signal packet after we got on the ground made it into the network from a Fixed digi-igates, and we landed only a couple miles outside of McPhearson. So normally nothing would have been heard once we were on the ground, if it hadn't have been GPSL

Also the more hardware you fly you increase cost, weight, and batteries, you also decrease max altitude. Not to mention airtraffic filing concerns, and impact load should you hit a house or car on the ground.
There is also a responsibility to make sure you recover your gear and not litter on other unsuspecting land owners.

So levering the largely unused network out-there can make more sense that saying throw another couple hundred dollars in the payload for logging and forget it.

Sincerely,
Carlton Corbitt
-.- .. ....- -. .... -.-

-----Original Message-----
From: Zack Clobes <zclobes@gmail. com>
To: GPSL <GPSL@yahoogroups. com>
Sent: Tue, Aug 3, 2010 1:28 pm
Subject: Re: [GPSL] APRS abuse

That's what we've done in the past. We then transmit the detected peak periodically via a telemetry string for the entire descent.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler .org

On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@.... uk> wrote:

Or just log the gps on your flight computer. You'll have at least 1hz altitude data that way, which is surely good enough- and certainly well beyond vdop as mike says.

Ed
CU Spaceflight

On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com> wrote:

Hi Brendan,

EOSS has recovered 155 of its 155 payload stings to date over the past
20 years. During the first 5 years or so, GPS was beyond our reach, so
we relied strictly on 2m DF triangulation. The key here is to have
a tracking and recovery team deployed around the predicted landing site
when the balloon launches.

Since then, we were one of the first groups to fly a GPS-based APRS beacon.
On that first flight, we ran on 144.39, and ended up crashing the KPC-3 due
to the excessive amount of traffic that it heard at altitude. So we've moved
back down to 144.34 and arrange for some home-based I-gates to get us into

the "infrastructure" on every flight. It's no big deal. In fact, on most flights, one of our trackers has to do no more than tune his home xcvr down 50 kHz before he leaves home.

Our APRS beacons have never run over 350 mW xmit power, and although we beacon GGA every 30 sec for our
own flights, we can back off to 60 sec for shared
freqs like at GPSL. This power level yields solid data out past 100 miles downrange at altitude (Line of sight is a magic thing), and further confers the benefit of extended operational life from a smaller, lighter battery.

Although I can understand wanting to know your peak altitude as precisely as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m every 10 sec. That's less than the VDOP of your GPS reading - sort of like measuring with a micrometer and marking with chalk. Further, the only reason I can think of to record peak altitude that precisely would be if you were attempting to beat the current ARHAB record of over 128 K'. And if you're hauling up enough batteries to support a 10W xmtr beaconing every 10 sec, fugeddaboudit!

Further, one can get a pretty good estimate of one's actual peak altitude by by finding the intersection
of the ascent and descent regression lines
taken from the data just before and after burst. It's not guesswork - just math.

73 de Mike W5VSI

On 8/2/2010 23:11, Brenden Geary wrote:
>
>
> Al,
>
> sorry I hit send by mistake...
>
> I will be 14 in a few weeks so don't beat me up too bad. (I also have a big
> dad ;-) I have flown 3 balloon flights and I have used Wide1-1, Wide2-1 on
> each flight. On each flight I was using a MT 8000 FA and every flight had
> there own problems but on the last flight I have not recovered at all. I took
> and passed my ham tech just so I can fly balloons, I really didn't have any
> interest in talking on the radio... this is changing slowly. So at first I
> wanted to transmit at 10watts every 10 seconds on 144.39 and another random
> freq which I would monitor as a backup. I was told that the ham community
> would
hang me for such a thing. If some is good more is better... OK so I do
> understand that every 10 seconds is crazy but I want concreat proof of the
> highest my balloon went, if you ping every minute or two then you have to
> guess... right? I can assure you that in my case it was ignorance not ego.
> APRS is somewhat of an art or blackmajac until you get into it. I think emails
> like yours will help bring awareness to the issue.
>

> Brenden Geary
> KJ6HVP
> www.BrendenGeary. com
>
> --- On *Mon, 8/2/10, Brenden Geary /<bjgeary@yahoo. com>/* wrote:
>
>
> From: Brenden Geary <bjgeary@yahoo. com>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups. com
> Date: Monday, August 2, 2010, 9:56 PM
>
> Al,
>
> I will be 14 in a few weeks so don't beat me up too bad but I have flown
3
> balloon flights and I have used Wide1-1, Wide2-1 on each flight. On each
> flight I was using a MT 8000 FA and every flight had there own problems
> but on the last flight I have not recovered at all. I took and passed my
> ham tech just so I can fly balloons, I really didn't have any interest in
> talking on the radio... this is changing slowly. So at first I wanted to
> transmit at 10watts every 10 seconds on 144.39 and another freq
>
> --- On *Mon, 8/2/10, Al Wolfe /<k9si@...>/* wrote:
>
>
> From: Al Wolfe <k9si@...>
> Subject: [GPSL] APRS abuse
> To: GPSL@yahoogroups. com
> Date: Monday, August 2, 2010, 10:12 AM
>
> I'm a veteran of several balloon chases dating back to the Wintrax days
> in Indiana. I have seen a phenomenal growth in the use of GPS and APRS in
> tracking balloons. I have also seen remarkable growth in the abuse of the
> APRS system in tracking balloons and don't know whether it is
> ignorance or
> egocentricalism.
>
> There have been several balloons lately aloft here in the Midwest with a
> path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near the
> ground, it has no place while at any altitude. This is a very selfish
> path!
> It can cause every properly
configured APRS station in an area of over
> 100,000 square mile to repeat the balloon packets. While no path at all
> would likely be fine, a path of Wide2-1 would probably not be considered
> abusive. This would only fire off the digis.
>
> As I said a path with 1-x can certainly be useful near the ground when
> trying to find a downed package. The Tiny Trak can change paths with a

> simple contact closure. A simple anaroid or pressure switch would be all
> that's needed to change to a less abusive path at some fairly low
> altitude.
> Or some simple telecommand system could be used.
>
> The APRS system has only a limited capacity and is shared by all the
> users. Ten or twelve years ago it would take weeks to accumulate 300
> different stations in the log here. Now it often takes only a couple of
> hours to see that many. In many areas the digis are in nearly
constant
> use.
> Eliminating the Wide1-1 balloon packets would certainly cut out some
> of the
> clamor.
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> Some have argued that balloons should use another frequency than 144.39.
> However, the infrastucture exists on 39 so it makes sense to use it. Just
> don't abuse it.
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> 73,
> Al, K9SI
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--
Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7936. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 03:13:26 UTC
From: Joe
Topic: 7915 Message: 7936

On 8/3/2010 9:57 PM, Brenden Geary wrote:
>
> [snip]
>
>
> I live in Southern California and trust me I can see the congestion on
> the APRS network. I thought I was being smart by trying to use a freq
> other than 144.39 like 154.39 and use my D700 to track it myself.
>
Are you sure on that frequency? Is it even legal at all on that
frequency even if you did possess a license to operate on that frequency.?
> I was told that I shouldn't do this because even if this freq is open
> in my area, it may not be when I get to altitude when my signal will
> go for 100's of miles. I this bogus info?
>
Absolutely not bogus. one tenth of one watt at 100,000 feet can be heard
easily for hundreds of miles. Often over 400 miles.

So thats a 800 mile diameter circle!
>
> What are your thoughts
>
> Brenden Geary
> www.BrendenGeary.com
> KJ6HVP
>
> --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...>/* wrote:
>
>
> From: Jon Riley <aj0nr@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Date: Tuesday, August 3, 2010, 6:59 PM
>
> For a hobby that seems to be d*c*ieing off,he as well as others
> should be happy the frequency is being used.Last time I checked
> nobody OWNS a frequency,we all get to use it.
> Jon Riley
> AJ0NR--Project Traveler
>
> --- On *Tue, 8/3/10, ccccrnr@aim. **om /<ccccrnr@aim. com>/* wrote:
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> From: ccccrnr@aim. com <ccccrnr@aim. com>
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> Date: Tuesday, August 3, 2010, 8:10 PM
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> I have to respectfully disagree with most every thing said here.
>
> Here in Missouri there is little digi or i-gate network. and
> around St Louis even with 1watt you very well might not get
> onto the internet driving around.
>
> and most of the traffic is just weather beacons or digis
> balasting with 50 to 100Watts on 2 meter so most of the
> traffic doesn't care about congestion or missing a packet.
>
> Also even in an area with a great Network like Kansas where
> GPSL was this year, not everything gets in.
> Not a signal packet after we got on the ground made it into
> the network from a Fixed digi-igates, and we landed only a
> couple miles outside of McPhearson. So normally nothing would
> have been heard once we were on the ground, if it hadn't have
> been GPSL
>
> Also the more hardware you fly you increase cost, weight, and
> batteries, you also decrease max altitude. Not
> to mention airtraffic filing concerns, and impact load should
> you hit a house or car on the ground.
> There is also a responsibility to make sure you recover your
> gear and not litter on other unsuspecting land owners.
>
> So levering the largely unused network out-there can make more
> sense that saying throw another couple hundred dollars in the
> payload for logging and forget it.
>
> Sincerely,
> Carlton Corbitt
> -.- .. ....- -. .... -.-
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@gmail. com>
> To: GPSL <GPSL@yahoogroups. com>
> Sent: Tue, Aug 3, 2010 1:28 pm
> Subject: Re: [GPSL] APRS abuse
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> That's what we've done in the past. We then transmit the
> detected peak periodically via a telemetry string for the
> entire descent.
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> Project: Traveler

> www.projecttraveler .org <http://www.projecttraveler.org/>
>
>
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> <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:
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> Or just log the gps on your flight computer. You'll have
> at least 1hz altitude data that way, which is surely good
> enough- and certainly well beyond vdop as mike says.
>
> Ed
> CU Spaceflight
>
>
> On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> wrote:
>
>> Hi Brendan,
>>
>> EOSS has recovered 155 of its 155 payload stings to date
>> over the past
>> 20 years. During the first 5 years or so, GPS was beyond
>> our reach, so
>> we relied strictly on 2m DF triangulation. The key here
>> is to have
>> a tracking and recovery team deployed around the
>> predicted landing site
>> when the balloon launches.
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>> Since then, we were one of the first groups to fly a
>> GPS-based APRS beacon.
>> On that first flight, we ran on 144.39, and ended up
>> crashing the KPC-3 due
>> to the excessive amount of traffic that it heard at
>> altitude. So we've moved
>> back down to 144.34 and arrange for some home-based
>> I-gates to get us into
>> the "infrastructure" on every flight. It's no big deal.
>> In fact, on most
>> flights, one of our trackers has to do no more than tune
>> his home xcvr down
>> 50 kHz before he leaves home.
>>
>> Our APRS beacons have never run over 350 mW xmit power,
>> and although we beacon
>> GGA every 30 sec for our own flights, we can back off to
>> 60 sec for shared
>> freqs like at GPSL. This power level yields solid data
>> out past 100 miles

>> downrange at altitude (Line of sight is a magic thing),
>> and further confers
>> the benefit of extended operational life from a smaller,
>> lighter battery.
>>
>> Although I can understand wanting to know your peak
>> altitude as precisely
>> as possible, consider this: at 1000 fpm, you're ascending
>> 166.7 ft or 50m
>> every 10 sec. That's less than the VDOP of your GPS
>> reading - sort of like
>> measuring with a micrometer and marking with chalk.
>> Further, the only reason
>> I can think of to record peak altitude that precisely
>> would be if you were
>> attempting to beat the current ARHAB record of over 128
>> K'. And if you're
>> hauling up enough batteries to support a 10W xmtr
>> beaconing every 10 sec,
>> fugeddaboudit!
>>
>> Further, one can get a pretty good estimate of one's
>> actual peak altitude
>> by by finding the intersection of the ascent and descent
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>> math.
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>> 73 de Mike W5VSI
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>> On 8/2/2010 23:11, Brenden Geary wrote:
>> >
>> >
>> > Al,
>> >
>> > sorry I hit send by mistake...
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>> > I will be 14 in a few weeks so don't beat me up too
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>> > dad ;-) I have flown 3 balloon flights and I have used
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>> > each flight. On each flight I was using a MT 8000 FA
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>> > there own problems but on the last flight I have not
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>> > Brenden Geary
>> > KJ6HVP
>> > www.BrendenGeary. com <http://www.brendengeary.com/>
>> >
>> > --- On *Mon, 8/2/10, Brenden Geary /<bjgeary@yahoo. com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
>> wrote:
>> >
>> >
>> > From: Brenden Geary <bjgeary@yahoo. com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups. com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>> > Date: Monday, August 2, 2010, 9:56 PM
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>> > --- On *Mon, 8/2/10, Al Wolfe /<k9si@...

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>> wrote:
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>> > From: Al Wolfe <k9si@...
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
>> > Subject: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups. com
>> > Date: Monday, August 2, 2010, 10:12 AM
>> >
>> > I'm a veteran of several balloon chases dating back to
>> the Wintrax days
>> > in Indiana. I have seen a phenomenal growth in the use
>> of GPS and APRS in
>> > tracking balloons. I have also seen remarkable growth
>> in the abuse of the
>> > APRS system in tracking balloons and don't know whether
>> it is
>> > ignorance or
>> > egocentricalism.
>> >
>> > There have been several balloons lately aloft here in
>> the Midwest with a
>> > path of Wide1-1, Wide2-x. While the 1-1 may certainly
>> be useful near the
>> > ground, it has no place while at any altitude. This is
>> a very selfish
>> > path!
>> > It can cause every properly configured APRS station in
>> an area of over
>> > 100,000 square mile to repeat the balloon packets.
>> While no path at all
>> > would likely be fine, a path of Wide2-1 would probably
>> not be considered
>> > abusive. This would only fire off the digis.
>> >
>> > As I said a path with 1-x can certainly be useful near
>> the ground when
>> > trying to find a downed package. The Tiny Trak can
>> change paths with a
>> > simple contact closure. A simple anaroid or pressure
>> switch would be all
>> > that's needed to change to a less abusive path at some
>> fairly low
>> > altitude.
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>> > The APRS system has only a limited capacity and is
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>> nearly constant
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>> > Some have argued that balloons should use another
>> frequency than 144.39.
>> > However, the infrastucture exists on 39 so it makes
>> sense to use it. Just
>> > don't abuse it.
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>> > 73,
>> > Al, K9SI
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes mrmanes@gmail. com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not
>> more so."
>> A. Einstein
>
>
>
>
>
>

7937. BalloonSats and Education

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 14:17:45 UTC
From: L. Paul Verhage
Topic: 7937 Message: 7937

I guess this is more for Bill Brown and EOSS.

From the early days, education was a part of what we do. Would it be fair to say education really took off when the advent of BalloonSats? It appears there are far more near space launches today because universities are getting involved. Does that sound correct?

The first I heard of BalloonSats was 2003. They didn't start much earlier than that, did they?

--
Onwards and Upwards,
Paul

7938. balloon funerals

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 14:54:57 UTC
From: Steven Brower
Topic: 7928 Message: 7938

4c. Re: balloon funerals
    Posted by: "L. Paul Verhage" nearsys@gmail.com near_sys
    Date: Tue Aug 3, 2010 2:48 pm ((PDT))

Were the ashes released?

Paul

Yes, but as it was a fictitious astronaut, I used fictitious ashes, and as he was a Carpenter, the ashes were sawdust. I figured that would save me from the 'medical waste disposal' issues. As it turned out the flight was to an extremely low altitude as I had left the permissions to local agents who didn't manage that process well. Turns out the site was directly under military air space. I have a great letter from the authorities describing the reasons for declining permission. The good news was that since the balloon was tethered, the audience could see the deployment and be present en masse for the recovery. The capsule was an altoids tin with a release that was activated by the dropping of the Flight Termination Unit. With this separate capsule, I could have an open casket funeral and people could see the 'sarcophagus' that was going to be flown.
In response to:
Messages in this topic (3)

On Tue, Aug 3, 2010 at 4:42 PM, Steven Brower <stevenbrower@...>wrote:

4a. balloon funerals
    Posted by: "Steven Brower" stevenbrower@... stevenbrower@...
    Date: Tue Aug 3, 2010 2:41 pm ((PDT))

I am only adding this as it seems to be a topic of great interest to the group. Feel free to ask questions, but I admit it doesn't do much to bring the discussion closer to reality. However, this did happen, pretty
much.http://browerpropulsionlab.com/directory/BPL_001_Funeral_Mission_for_Conrad_Carpenter

Messages in this topic (3)

4b. balloon funerals
    Posted by: "Steven Brower" stevenbrower@... stevenbrower@...
    Date: Tue Aug 3, 2010 2:43 pm ((PDT))

oops, hit send too fast- I'm Steven, KC2SQU
>

7939. Re: [GPSL] BalloonSats and Education

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 16:28:23 UTC
From: Joe
Topic: 7937 Message: 7939
Attachments: 1 described; binary payloads are missing from this source WARC

Balloon Sats, what is your definition of a BalloonSat?

As far as launches go, Near Space Sciences is a year behind Bill ELK.
out first launch, was August of 1988.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/4/2010 9:17 AM, L. Paul Verhage wrote:
>
>
> I guess this is more for Bill Brown and EOSS.
> From the early days, education was a part of what we do. Would it be
> fair to say education really took off when the advent of BalloonSats?
> It appears there are far more near space launches today because
> universities are getting involved. Does that sound correct?
> The first I heard of BalloonSats was 2003. They didn't start much
> earlier than that, did they?
> --
> Onwards and Upwards,
> Paul
>
>
>

7940. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 18:42:21 UTC
From: Mike Manes
Topic: 7915 Message: 7940

Hi Brendan,

I don't think that either ham radio or ARHAB is dying off. Many new hams get their tickets in order to enjoy perhaps a small sliver of the ham radio hobby, such as ARES or ARHAB, and later discover more and more of the vast array of activities offered by the hobby, such as DXing, microwaves, ARDF, etc. I'm sure that if you were to join up with a ham club in your area, you'd have a chance to see what I mean.

EOSS actually sprung forth from a ham club called Western Vision Network, a Denver-area group of hams who specialized in ATV (amateur television). A few of them, inspired by Bill Brown's pioneering work, decided to fly an ATV transmitter and camera into the stratosphere. So EOSS-1 was actually WNV-1, but WVN died off years ago.

You're right about ARHAB not dying off - if anything, it's growing like Topsy! 20 years ago, there were just a handful of balloon groups in the US, and none overseas. Today, there at least that many coming into the fold every few months!

By the way, I may have hinted in an earlier response at one of EOSS's secrets to its recovery rate: have a tracking and recovery team already deployed when the balloon launches. Although ARHAB can be a "one man game", it's a lot more fun, and less costly, if you gather a team to work with you. Which points back to my earlier point about joining a ham club. I assure you that a young fellow such as yourself will be welcomed with open arms by some of those old timers who got their first tickets about your age - but back in the vacuum tube era.

I think you typoed "154.39" in your earlier email - you meant 145.39 didn't you?

You should know that relying strictly on the APRS infrastructure on 144.39 is no guarantee of a successful recovery. Once the payload string descends below the radio horizon of the nearest digi or I-gate, you're out of the system, and you'd better have a closer tracking and recovery station that can hear you beacons. Quite often, although the APRS packet signal can be heard from a payload on the ground, it's too weak and noisy to decode. ANd the packet bursts are too brief to allow for a decent DF bearing. This is where you need a separate, independent DF beacon on the flight string that transmits a steady signal for 15 to 30 seconds every minute or so, with a CW ID, of course, that you can DF on. Many of EOSS's recoveries still rely on some DFing if the landing site is way out in the boonies. By "independent" I mean a completely separate payload that doesn't share power, radio, computer or antenna with your APRS beacon, since any of those can fail and bring both beacons down.

Please don't take any of these suggestions as criticism, Brenden. We're just trying to give you the benefit of some of the lessons that we've learned the hard way, and we sincerely hope that your next flight results in a quick recovery and some great in-flight pix. As a science fair judge myself, it's my opinion that if you present your flight and its results in a half-way careful fashion, you'll be on your way to the regional and perhaps even the state fairs!

GL es 73 de Mike W5VSI
CTO EOSS

On 8/3/2010 20:57, Brenden Geary wrote:
>
>
> Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
> ticket so I can fly balloons. Yes I have had my issues and have lost a bunch
> of money in my last payload. Thanks to family and friends, some on this list,
> I will fly again on Sept 4. I plan on taking down the High School science
> fair, if they will let me in. I'm only entering the 8th grade but when I do
> take down the Science fair with my data and photos I expect to see more
> balloons next year. I started when I saw the two or three MIT students fly, so
> no I do not think it is dying I think it is just starting to take off.
>
> I live in Southern California and trust me I can see the congestion on the
> APRS network. I thought I was being smart by trying to use a freq other than
> 144.39 like 154.39 and use my D700 to track it myself. I was told that I
> shouldn't do this because even if this freq is open in my area, it may not be
> when I get to altitude when my signal will go for 100's of miles. I this bogus
> info?
>
> What are your thoughts
>
> Brenden Geary
> www.BrendenGeary.com
> KJ6HVP
>
> --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...>/* wrote:
>
>
> From: Jon Riley <aj0nr@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Date: Tuesday, August 3, 2010, 6:59 PM
>
> For a hobby that seems to be dieing off,he as well as others should be
> happy the frequency is being used.Last time I checked nobody OWNS a
> frequency,we all get to use it.
> Jon Riley
> AJ0NR--Project Traveler
>
> --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
>

>
> From: ccccrnr@aim. com <ccccrnr@aim. com>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups. com
> Date: Tuesday, August 3, 2010, 8:10 PM
>
> I have to respectfully disagree with most every thing said here.
>
> Here in Missouri there is little digi or i-gate network. and around St
> Louis even with 1watt you very well might not get onto the internet
> driving around.
>
> and most of the traffic is just weather beacons or digis balasting
> with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> about congestion or missing a packet.
>
> Also even in an area with a great Network like Kansas where GPSL was
> this year, not everything gets in.
> Not a signal packet after we got on the ground made it into the
> network from a Fixed digi-igates, and we landed only a couple miles
> outside of McPhearson. So normally nothing would have been heard once
> we were on the ground, if it hadn't have been GPSL
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> Also the more hardware you fly you increase cost, weight, and
> batteries, you also decrease max altitude. Not to mention airtraffic
> filing concerns, and impact load should you hit a house or car on the
> ground.
> There is also a responsibility to make sure you recover your gear and
> not litter on other unsuspecting land owners.
>
> So levering the largely unused network out-there can make more sense
> that saying throw another couple hundred dollars in the payload for
> logging and forget it.
>
> Sincerely,
> Carlton Corbitt
> -.- .. ....- -. .... -.-
>
>
>
> -----Original Message-----
> From: Zack Clobes <zclobes@gmail. com>
> To: GPSL <GPSL@yahoogroups. com>
> Sent: Tue, Aug 3, 2010 1:28 pm
> Subject: Re: [GPSL] APRS abuse
>
> That's what we've done in the past. We then transmit the detected peak
> periodically via a telemetry string for the entire descent.
>
> Zack Clobes, W0ZC

> Project: Traveler
> www.projecttraveler .org <http://www.projecttraveler.org/>
>
>
> On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@.... uk
> <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:
>
> Or just log the gps on your flight computer. You'll have at least
> 1hz altitude data that way, which is surely good enough- and
> certainly well beyond vdop as mike says.
>
> Ed
> CU Spaceflight
>
>
> On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> wrote:
>
>> Hi Brendan,
>>
>> EOSS has recovered 155 of its 155 payload stings to date over
>> the past
>> 20 years. During the first 5 years or so, GPS was beyond our
>> reach, so
>> we relied strictly on 2m DF triangulation. The key here is to have
>> a tracking and recovery team deployed around the predicted
>> landing site
>> when the balloon launches.
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>> Since then, we were one of the first groups to fly a GPS-based
>> APRS beacon.
>> On that first flight, we ran on 144.39, and ended up crashing
>> the KPC-3 due
>> to the excessive amount of traffic that it heard at altitude. So
>> we've moved
>> back down to 144.34 and arrange for some home-based I-gates to
>> get us into
>> the "infrastructure" on every flight. It's no big deal. In fact,
>> on most
>> flights, one of our trackers has to do no more than tune his
>> home xcvr down
>> 50 kHz before he leaves home.
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>> Our APRS beacons have never run over 350 mW xmit power, and
>> although we beacon
>> GGA every 30 sec for our own flights, we can back off to 60 sec
>> for shared
>> freqs like at GPSL. This power level yields solid data out past
>> 100 miles

>> downrange at altitude (Line of sight is a magic thing), and
>> further confers
>> the benefit of extended operational life from a smaller, lighter
>> battery.
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>> Although I can understand wanting to know your peak altitude as
>> precisely
>> as possible, consider this: at 1000 fpm, you're ascending 166.7
>> ft or 50m
>> every 10 sec. That's less than the VDOP of your GPS reading -
>> sort of like
>> measuring with a micrometer and marking with chalk. Further, the
>> only reason
>> I can think of to record peak altitude that precisely would be
>> if you were
>> attempting to beat the current ARHAB record of over 128 K'. And
>> if you're
>> hauling up enough batteries to support a 10W xmtr beaconing
>> every 10 sec,
>> fugeddaboudit!
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>> Further, one can get a pretty good estimate of one's actual peak
>> altitude
>> by by finding the intersection of the ascent and descent
>> regression lines
>> taken from the data just before and after burst. It's not
>> guesswork - just
>> math.
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>> 73 de Mike W5VSI
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>> On 8/2/2010 23:11, Brenden Geary wrote:
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>> > Al,
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>> > sorry I hit send by mistake...
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>> > I will be 14 in a few weeks so don't beat me up too bad. (I
>> also have a big
>> > dad ;-) I have flown 3 balloon flights and I have used
>> Wide1-1, Wide2-1 on
>> > each flight. On each flight I was using a MT 8000 FA and every
>> flight had
>> > there own problems but on the last flight I have not recovered
>> at all. I took
>> > and passed my ham tech just so I can fly balloons, I really
>> didn't have any
>> > interest in talking on the radio... this is changing slowly.
>> So at first I

>> > wanted to transmit at 10watts every 10 seconds on 144.39 and
>> another random
>> > freq which I would monitor as a backup. I was told that the
>> ham community
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>> proof of the
>> > highest my balloon went, if you ping every minute or two then
>> you have to
>> > guess... right? I can assure you that in my case it was
>> ignorance not ego.
>> > APRS is somewhat of an art or blackmajac until you get into
>> it. I think emails
>> > like yours will help bring awareness to the issue.
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>> > Brenden Geary
>> > KJ6HVP
>> > <http://www.brendengeary.com/>www.BrendenGeary. com
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>> com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
>> wrote:
>> >
>> >
>> > From: Brenden Geary <
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
>> > Subject: Re: [GPSL] APRS abuse
>> > To:
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
>> com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>> > Date: Monday, August 2, 2010, 9:56 PM
>> >
>> > Al,
>> >
>> > I will be 14 in a few weeks so don't beat me up too bad but I
>> have flown 3
>> > balloon flights and I have used Wide1-1, Wide2-1 on each
>> flight. On each
>> > flight I was using a MT 8000 FA and every flight had there own
>> problems
>> > but on the last flight I have not recovered at all. I took and
>> passed my
>> > ham tech just so I can fly balloons, I really didn't have any

>> interest in
>> > talking on the radio... this is changing slowly. So at first I
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>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
>> wrote:
>> >
>> >
>> > From: Al Wolfe <
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
>> > Subject: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups. com
>> > Date: Monday, August 2, 2010, 10:12 AM
>> >
>> > I'm a veteran of several balloon chases dating back to the
>> Wintrax days
>> > in Indiana. I have seen a phenomenal growth in the use of GPS
>> and APRS in
>> > tracking balloons. I have also seen remarkable growth in the
>> abuse of the
>> > APRS system in tracking balloons and don't know whether it is
>> > ignorance or
>> > egocentricalism.
>> >
>> > There have been several balloons lately aloft here in the
>> Midwest with a
>> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
>> useful near the
>> > ground, it has no place while at any altitude. This is a very
>> selfish
>> > path!
>> > It can cause every properly configured APRS station in an area
>> of over
>> > 100,000 square mile to repeat the balloon packets. While no
>> path at all
>> > would likely be fine, a path of Wide2-1 would probably not be
>> considered
>> > abusive. This would only fire off the digis.
>> >
>> > As I said a path with 1-x can certainly be useful near the
>> ground when
>> > trying to find a downed package. The Tiny Trak can change
>> paths with a
>> > simple contact closure. A simple anaroid or pressure switch
>> would be all
>> > that's needed to change to a less abusive path at some fairly low

>> > altitude.
>> > Or some simple telecommand system could be used.
>> >
>> > The APRS system has only a limited capacity and is shared by
>> all the
>> > users. Ten or twelve years ago it would take weeks to
>> accumulate 300
>> > different stations in the log here. Now it often takes only a
>> couple of
>> > hours to see that many. In many areas the digis are in nearly
>> constant
>> > use.
>> > Eliminating the Wide1-1 balloon packets would certainly cut
>> out some
>> > of the
>> > clamor.
>> >
>> > Some have argued that balloons should use another frequency
>> than 144.39.
>> > However, the infrastucture exists on 39 so it makes sense to
>> use it. Just
>> > don't abuse it.
>> >
>> > 73,
>> > Al, K9SI
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
>> com
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>
>
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--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

7941. Re: [GPSL] BalloonSats and Education

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 18:59:49 UTC
From: Mike Manes
Topic: 7937 Message: 7941

The term "balloonsat" was created by Chris Koehler back in 1999 or 2000,
when he was the newly hired Dir. of Colo Space Grant. It was coined from
NASA's "cubesat" specification for student experiments that could be
put into orbit as ballast on NASA launches or from the Shuttle. Amongst
other things, a "cubesat" was required to be a 10cm x 10cm x 10cm cube,
which is the form factor that Chris adopted for his "Gateway to Space"
undergrad course at CU back then. Sometime later, Chris developed his
Space Grant Balloon Workshop, where faculty from other Space Grant colleges
learned how to develop their own versions of the "Gateway" course, including
building and flying kit-built balloonsats.

EOSS is proud to have been tapped to operate all of the Gateway and
Workshop flights since then.

73 de Mike W5VSI

On 8/4/2010 10:28, Joe wrote:
> Balloon Sats, what is your definition of a BalloonSat?
>
> As far as launches go, Near Space Sciences is a year behind Bill ELK. out
> first launch, was August of 1988.
>
> Joe WB9SBD
> Near Space Sciences KB9KHO
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/4/2010 9:17 AM, L. Paul Verhage wrote:
>> I guess this is more for Bill Brown and EOSS.
>> From the early days, education was a part of what we do. Would it be fair to
>> say education really took off when the advent of BalloonSats? It appears
>> there are far more near space launches today because universities are
>> getting involved. Does that sound correct?
>> The first I heard of BalloonSats was 2003. They didn't start much earlier
>> than that, did they?
>> --
>> Onwards and Upwards,
>> Paul

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7942. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 19:07:55 UTC
From: Mike Manes
Topic: 7915 Message: 7942

Hi Carlton,

Prior to the GPSL flights, there were no active I-gates in the Hutch area
on 144.39, and the only I-gates that put EOSS-154's 144.34 beacons into
findu were in TX! So it's important to set up I-gates in advance if
you're gonna operate off the 144.39 backbone.

73 de Mike W5VSI

On 8/3/2010 19:10, ccccrnr@... wrote:
>
>
> I have to respectfully disagree with most every thing said here.
>
> Here in Missouri there is little digi or i-gate network. and around St Louis
> even with 1watt you very well might not get onto the internet driving around.
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> and most of the traffic is just weather beacons or digis balasting with 50 to
> 100Watts on 2 meter so most of the traffic doesn't care about congestion or
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> So levering the largely unused network out-there can make more sense that
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> Sent: Tue, Aug 3, 2010 1:28 pm
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> Or just log the gps on your flight computer. You'll have at least 1hz
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>> as possible, consider this: at 1000 fpm, you're ascending 166.7 ft or 50m
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>> > To: <mailto:GPSL%40yahoogroups.com>GPSL@yahoogroups.com
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>> > trying to find a downed package. The Tiny Trak can change paths with a
>> > simple contact closure. A simple anaroid or pressure switch would be all
>> > that's needed to change to a less abusive path at some fairly low

>> > altitude.
>> > Or some simple telecommand system could be used.
>> >
>> > The APRS system has only a limited capacity and is shared by all the
>> > users. Ten or twelve years ago it would take weeks to accumulate 300
>> > different stations in the log here. Now it often takes only a couple of
>> > hours to see that many. In many areas the digis are in nearly constant
>> > use.
>> > Eliminating the Wide1-1 balloon packets would certainly cut out some
>> > of the
>> > clamor.
>> >
>> > Some have argued that balloons should use another frequency than 144.39.
>> > However, the infrastucture exists on 39 so it makes sense to use it. Just
>> > don't abuse it.
>> >
>> > 73,
>> > Al, K9SI
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes <mailto:mrmanes%40gmail.com>mrmanes@...
>> <mailto:mrmanes@...> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7943. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 19:32:13 UTC
From: Mark Conner
Topic: 7915 Message: 7943

Another way to deal with this is to put a low-rate beacon on 144.39 (no more than once per minute and no more than a WIDE2-1 path) and do whatever you want on 144.34 or 144.36. You can track on a clean frequency (no terrestrial digis stomping on your balloon packets) and if that one fails you have the other on the national network with I-gate support.

Redundancy is good, but it does cost money and weight.

73 de Mark N9XTN

On Wed, Aug 4, 2010 at 14:07, Mike Manes <mrmanes@...> wrote:

> Hi Carlton,
>
> Prior to the GPSL flights, there were no active I-gates in the Hutch area
> on 144.39, and the only I-gates that put EOSS-154's 144.34 beacons into
> findu were in TX! So it's important to set up I-gates in advance if
> you're gonna operate off the 144.39 backbone.
>
> 73 de Mike W5VSI
>
>
>

7944. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 20:08:14 UTC
From: Brenden Geary
Topic: 7915 Message: 7944

I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with open arms. They tried to put a link to my site on the home page but it's a dead link. I am trying to help them out but I think they are a little worried about a kid working on their site. I usually have a large group for my launch and nobody in the landing zone, everyone wants to watch it take off. Having a group in the predicted landing site is a great idea, I will see if I can get some people to monitor the predicted landing site. I didn't take any of your suggestions as criticism, I am on this list just soaking up the knowledge. As far as presenting my results in a half-way careful fashion, here are my ideas:
Show the predicted flight path vs Actual flight path
Display Boyles law which and explain why it makes the balloon pop
Graph Time vs Barometric Pressure
Graph Time vs humidity

Graph Time vs Temp inside and outside the payload
and of course the eye candy pictures at altitude.

What do you think of my project? Anyone please feel free let me know what you think... its all good.

Brenden
KJ6HVP

--- On Wed, 8/4/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] APRS abuse
To: GPSL@yahoogroups.com
Cc: "Brenden Geary" <bjgeary@...>
Date: Wednesday, August 4, 2010, 11:42 AM

Hi Brendan,

I don't think that either ham radio or ARHAB is dying off. Many new hams

get their tickets in order to enjoy perhaps a small sliver of the ham

radio hobby, such as ARES or ARHAB, and later discover more and more of the

vast array of activities offered by the hobby, such as DXing, microwaves,

ARDF, etc. I'm sure that if you were to join up with a ham club in your

area, you'd have a chance to see what I mean.

EOSS actually sprung forth from a ham club called Western Vision Network,

a Denver-area group of hams who specialized in ATV (amateur television). A

few of them, inspired by Bill Brown's pioneering work, decided to fly an

ATV transmitter and camera into the stratosphere. So EOSS-1 was actually WNV-1, but WVN died off years ago.

You're right about ARHAB not dying off - if anything, it's growing like Topsy! 20 years ago, there were just a handful of balloon groups in the US, and none overseas. Today, there at least that many coming into the fold every few months!

By the way, I may have hinted in an earlier response at one of EOSS's secrets to its recovery rate: have a tracking and recovery team already deployed when the balloon launches. Although ARHAB can be a "one man game", it's a lot more fun, and less costly, if you gather a team to work with you. Which points back to my earlier point about joining a ham club. I assure you that a young fellow such as yourself will be welcomed with open arms by some of those old timers who got their first tickets about your age - but back in the vacuum tube era.

I think you typoed "154.39" in your earlier email - you meant 145.39 didn't you?

You should know that relying strictly on the APRS infrastructure on 144.39 is no guarantee of a successful recovery. Once the payload string descends below the radio horizon of the nearest digi or I-gate, you're out of the system, and you'd better have a closer tracking and recovery station that can hear you beacons. Quite often, although the APRS packet signal can be heard from a payload on the ground, it's too weak and noisy to decode. ANd the packet bursts are too brief to allow for a decent DF bearing. This is where you need a separate, independent DF beacon on the flight string that transmits a steady signal for 15 to 30 seconds every minute or so, with a CW ID, of course, that you can DF on. Many of EOSS's recoveries still rely on some DFing if the landing site is way out in the boonies. By "independent" I mean a completely separate payload that doesn't share power, radio, computer or antenna with your APRS beacon, since any of those can

fail and bring both beacons down.

Please don't take any of these suggestions as criticism, Brenden. We're just trying to give you the benefit of some of the lessons that we've learned the hard way, and we sincerely hope that your next flight results in a quick recovery and some great in-flight pix. As a science fair judge myself, it's my opinion that if you present your flight and its results in a half-way careful fashion, you'll be on your way to the regional and perhaps even the state fairs!

GL es 73 de Mike W5VSI

CTO EOSS

On 8/3/2010 20:57, Brenden Geary wrote:

>

>

> Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
> ticket so I can fly balloons. Yes I have had my issues and have lost a bunch
> of money in my last payload. Thanks to family and friends, some on this list,
> I will fly again on Sept 4. I plan on taking down the High School science
> fair, if they will let me in. I'm only entering the 8th grade but when I do
> take down the Science fair with my data and photos I expect to see more
> balloons next year. I started when I saw the two or three MIT students fly, so
> no I do not think it is dying I think it is just starting to take off.

>

> I live in Southern California and trust me I can see the congestion on the
> APRS network. I thought I was being smart by trying to use a freq other than
> 144.39 like 154.39 and use my D700 to track it myself. I was told that I
> shouldn't do this because even if this freq is open in my area, it may not be
> when I get to altitude when my signal will go for 100's of miles. I this bogus
> info?

>

> What are your thoughts

>

> Brenden Geary

> www.BrendenGeary.com

> KJ6HVP

>

> --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...>/* wrote:

>

>

> From: Jon Riley <aj0nr@...>

> Subject: Re: [GPSL] APRS abuse

> To: GPSL@yahoogroups.com

> Date: Tuesday, August 3, 2010, 6:59 PM

>

> For a hobby that seems to be dieing off,he as well as others should be

> happy the frequency is being used.Last time I checked nobody OWNS a

> frequency,we all get to use it.

> Jon Riley

> AJ0NR--Project Traveler

>

> --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:

>

>

> From: ccccrnr@aim. com <ccccrnr@aim. com>

> Subject: Re: [GPSL] APRS abuse

> To: GPSL@yahoogroups. com

> Date: Tuesday, August 3, 2010, 8:10 PM

>

> I have to respectfully disagree with most every thing said here.

>

> Here in Missouri there is little digi or i-gate network. and around St

> Louis even with 1watt you very well might not get onto the internet

> driving around.

>

> and most of the traffic is just weather beacons or digis balasting

> with 50 to 100Watts on 2 meter so most of the traffic doesn't care

> about congestion or missing a packet.

>

> Also even in an area with a great Network like Kansas where GPSL was

> this year, not everything gets in.

> Not a signal packet after we got on the ground made it into the

> network from a Fixed digi-igates, and we landed only a couple miles

> outside of McPhearson. So normally nothing would have been heard once

> we were on the ground, if it hadn't have been GPSL

>

> Also the more hardware you fly you increase cost, weight, and

> batteries, you also decrease max altitude. Not to mention airtraffic

> filing concerns, and impact load should you hit a house or car on the

> ground.

> There is also a responsibility to make sure you recover your gear and

> not litter on other unsuspecting land owners.

>

> So levering the largely unused network out-there can make more sense

> that saying throw another couple hundred dollars in the payload for

> logging and forget it.

>

> Sincerely,

> Carlton Corbitt

> -.- .. ....- -. .... -.-

>

>

>

> -----Original Message-----

> From: Zack Clobes <zclobes@gmail. com>

> To: GPSL <GPSL@yahoogroups. com>

> Sent: Tue, Aug 3, 2010 1:28 pm

> Subject: Re: [GPSL] APRS abuse

>

> That's what we've done in the past. We then transmit the detected peak

> periodically via a telemetry string for the entire descent.

>

> Zack Clobes, W0ZC

> Project: Traveler

> www.projecttraveler .org <http://www.projecttraveler.org/>

>

>

> On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@.... uk

> <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:

>

> Or just log the gps on your flight computer. You'll have at least

> 1hz altitude data that way, which is surely good enough- and

> certainly well beyond vdop as mike says.

>

> Ed

> CU Spaceflight

>

>

> On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com

> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>

> wrote:

>

>> Hi Brendan,

>>

>> EOSS has recovered 155 of its 155 payload stings to date over

>> the past

>> 20 years. During the first 5 years or so, GPS was beyond our

>> reach, so

>> we relied strictly on 2m DF triangulation. The key here is to have

>> a tracking and recovery team deployed around the predicted

>> landing site

>> when the balloon launches.

>>

>> Since then, we were one of the first groups to fly a GPS-based

>> APRS beacon.

>> On that first flight, we ran on 144.39, and ended up crashing

>> the KPC-3 due

>> to the excessive amount of traffic that it heard at altitude. So

>> we've moved

>> back down to 144.34 and arrange for some home-based I-gates to

>> get us into

>> the "infrastructure" on every flight. It's no big deal. In fact,

>> on most

>> flights, one of our trackers has to do no more than tune his

>> home xcvr down

>> 50 kHz before he leaves home.

>>

>> Our APRS beacons have never run over 350 mW xmit power, and

>> although we beacon

>> GGA every 30 sec for our own flights, we can back off to 60 sec

>> for shared

>> freqs like at GPSL. This power level yields solid data out past

>> 100 miles

>> downrange at altitude (Line of sight is a magic thing), and

>> further confers

>> the benefit of extended operational life from a smaller, lighter

>> battery.

>>

>> Although I can understand wanting to know your peak altitude as

>> precisely

>> as possible, consider this: at 1000 fpm, you're ascending 166.7

>> ft or 50m

>> every 10 sec. That's less than the VDOP of your GPS reading -

>> sort of like

>> measuring with a micrometer and marking with chalk. Further, the

>> only reason

>> I can think of to record peak altitude that precisely would be

>> if you were

>> attempting to beat the current ARHAB record of over 128 K'. And

>> if you're

>> hauling up enough batteries to support a 10W xmtr beaconing

>> every 10 sec,

>> fugeddaboudit!

>>

>> Further, one can get a pretty good estimate of one's actual peak

>> altitude

>> by by finding the intersection of the ascent and descent

>> regression lines

>> taken from the data just before and after burst. It's not

>> guesswork - just

>> math.

>>

>> 73 de Mike W5VSI

>>

>> On 8/2/2010 23:11, Brenden Geary wrote:

>> >

>> >

>> > Al,

>> >

>> > sorry I hit send by mistake...

>> >

>> > I will be 14 in a few weeks so don't beat me up too bad. (I

>> also have a big

>> > dad ;-) I have flown 3 balloon flights and I have used

>> Wide1-1, Wide2-1 on

>> > each flight. On each flight I was using a MT 8000 FA and every

>> flight had

>> > there own problems but on the last flight I have not recovered

>> at all. I took

>> > and passed my ham tech just so I can fly balloons, I really

>> didn't have any

>> > interest in talking on the radio... this is changing slowly.

>> So at first I

>> > wanted to transmit at 10watts every 10 seconds on 144.39 and

>> another random

>> > freq which I would monitor as a backup. I was told that the

>> ham community

>> > would hang me for such a thing. If some is good more is

>> better... OK so I do

>> > understand that every 10 seconds is crazy but I want concreat

>> proof of the

>> > highest my balloon went, if you ping every minute or two then

>> you have to

>> > guess... right? I can assure you that in my case it was

>> ignorance not ego.

>> > APRS is somewhat of an art or blackmajac until you get into

>> it. I think emails

>> > like yours will help bring awareness to the issue.

>> >

>> > Brenden Geary

>> > KJ6HVP

>> > <http://www.brendengeary.com/>www.BrendenGeary. com

>> <http://www.brendengeary.com/>

>> >

>> > --- On *Mon, 8/2/10, Brenden Geary /<

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.

>> com

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@yahoo.com>>/*

>> wrote:

>> >

>> >

>> > From: Brenden Geary <

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.

>> com

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@yahoo.com>>

>> > Subject: Re: [GPSL] APRS abuse

>> > To:

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.

>> com

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>

>> > Date: Monday, August 2, 2010, 9:56 PM

>> >

>> > Al,

>> >

>> > I will be 14 in a few weeks so don't beat me up too bad but I

>> have flown 3

>> > balloon flights and I have used Wide1-1, Wide2-1 on each

>> flight. On each

>> > flight I was using a MT 8000 FA and every flight had there own

>> problems

>> > but on the last flight I have not recovered at all. I took and

>> passed my

>> > ham tech just so I can fly balloons, I really didn't have any

>> interest in

>> > talking on the radio... this is changing slowly. So at first I

>> wanted to

>> > transmit at 10watts every 10 seconds on 144.39 and another freq

>> >

>> > --- On *Mon, 8/2/10, Al Wolfe /<

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*

>> wrote:

>> >

>> >

>> > From: Al Wolfe <

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>

>> > Subject: [GPSL] APRS abuse

>> > To: GPSL@yahoogroups. com

>> > Date: Monday, August 2, 2010, 10:12 AM

>> >

>> > I'm a veteran of several balloon chases dating back to the

>> Wintrax days

>> > in Indiana. I have seen a phenomenal growth in the use of GPS

>> and APRS in

>> > tracking balloons. I have also seen remarkable growth in the

>> abuse of the

>> > APRS system in tracking balloons and don't know whether it is

>> > ignorance or

>> > egocentricalism.

>> >

>> > There have been several balloons lately aloft here in the

>> Midwest with a

>> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be

>> useful near the

>> > ground, it has no place while at any altitude. This is a very

>> selfish

>> > path!

>> > It can cause every properly configured APRS station in an area

>> of over

>> > 100,000 square mile to repeat the balloon packets. While no

>> path at all

>> > would likely be fine, a path of Wide2-1 would probably not be

>> considered

>> > abusive. This would only fire off the digis.

>> >

>> > As I said a path with 1-x can certainly be useful near the

>> ground when

>> > trying to find a downed package. The Tiny Trak can change

>> paths with a

>> > simple contact closure. A simple anaroid or pressure switch

>> would be all

>> > that's needed to change to a less abusive path at some fairly low

>> > altitude.

>> > Or some simple telecommand system could be used.

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>> all the

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>> accumulate 300

>> > different stations in the log here. Now it often takes only a

>> couple of

>> > hours to see that many. In many areas the digis are in nearly

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>> > Eliminating the Wide1-1 balloon packets would certainly cut

>> out some

>> > of the

>> > clamor.

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>> > Some have argued that balloons should use another frequency

>> than 144.39.

>> > However, the infrastucture exists on 39 so it makes sense to

>> use it. Just

>> > don't abuse it.

>> >

>> > 73,

>> > Al, K9SI

>> >

>> >

>> >

>> >

>> >

>> >

>>

>> --

>> Mike Manes

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.

>> com

>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>

>> Tel: 303-979-4899

>> "Things should be made as simple as possible, but not more so."

>> A. Einstein

>

>

>

>

>

>

--

Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

7945. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 20:15:59 UTC
From: L. Paul Verhage
Topic: 7915 Message: 7945

Use video if you can. A small digital video camera will show the balloon bursting. You could also use the main lifting balloon as part of your Boyle's law experiment. A video camera of that burst is spectacular.

For educational laughs, send up a bag of chips and record it expanding and bursting.

Paul

On Wed, Aug 4, 2010 at 3:08 PM, Brenden Geary <bjgeary@...> wrote:

>
>
> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with
> open arms. They tried to put a link to my site on the home page but it's a
> dead link. I am trying to help them out but I think they are a little
> worried about a kid working on their site. I usually have a large group for
> my launch and nobody in the landing zone, everyone wants to watch it take
> off. Having a group in the predicted landing site is a great idea, I will
> see if I can get some people to monitor the predicted landing site. I
> didn't take any of your suggestions as criticism, I am on this list just
> soaking up the knowledge. As far as presenting my results in a half-way
> careful fashion, here are my ideas:
> Show the predicted flight path vs Actual flight path
> Display Boyles law which and explain why it makes the balloon pop
> Graph Time vs Barometric Pressure
> Graph Time vs humidity* *
> Graph Time vs Temp inside and outside the payload
> and of course the eye candy pictures at altitude.
>
> What do you think of my project? Anyone please feel free let me know what
> you think... its all good.
>
> Brenden
> KJ6HVP
>
>
>
>
> I don't think that either ham radio or ARHAB is dying off. Many new hams
> get their tickets in order to enjoy perhaps a small sliver of the ham
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> vast array of activities offered by the hobby, such as DXing, microwaves,
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> EOSS actually sprung forth from a ham club called Western Vision Network,
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> few of them, inspired by Bill Brown's pioneering work, decided to fly an
> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
> WNV-1, but WVN died off years ago.
>
> You're right about ARHAB not dying off - if anything, it's growing like
> Topsy!
> 20 years ago, there were just a handful of balloon groups in the US, and
> none overseas. Today, there at least that many coming into the fold every
> few
> months!
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> By the way, I may have hinted in an earlier response at one of EOSS's
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> to its recovery rate: have a tracking and recovery team already deployed
> when
> the balloon launches. Although ARHAB can be a "one man game", it's a lot
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> fun, and less costly, if you gather a team to work with you. Which points
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> fellow such as yourself will be welcomed with open arms by some of those
> old timers who got their first tickets about your age - but back in the
> vacuum
> tube era.
>
> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
> you?
>
> You should know that relying strictly on the APRS infrastructure on 144.39
> is no guarantee of a successful recovery. Once the payload string descends
> below the radio horizon of the nearest digi or I-gate, you're out of the
> system, and you'd better have a closer tracking and recovery station that
> can hear you beacons. Quite often, although the APRS packet signal can be
> heard from a payload on the ground, it's too weak and noisy to decode. ANd
> the packet bursts are too brief to allow for a decent DF bearing. This is
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> transmits a steady signal for 15 to 30 seconds every minute or so, with a
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> radio, computer or antenna with your APRS beacon, since any of those can
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> Please don't take any of these suggestions as criticism, Brenden. We're
> just
> trying to give you the benefit of some of the lessons that we've learned
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> hard way, and we sincerely hope that your next flight results in a quick
> recovery and some great in-flight pix. As a science fair judge myself, it's
> my opinion that if you present your flight and its results in a half-way
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>
> GL es 73 de Mike W5VSI
> CTO EOSS
>
> On 8/3/2010 20:57, Brenden Geary wrote:
> >
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> > balloons next year. I started when I saw the two or three MIT students
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> > no I do not think it is dying I think it is just starting to take off.
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> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
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> not be
> > when I get to altitude when my signal will go for 100's of miles. I this
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> > info?
> >
> > What are your thoughts
> >
> > Brenden Geary
> > www.BrendenGeary.com <http://www.brendengeary.com/>
> > KJ6HVP
> >
> > --- On *Tue, 8/3/10, Jon Riley
/<aj0nr@...<http://mc/compose?to=aj0nr%40sbcglobal.net>>/*
> wrote:
> >
> >
> > From: Jon Riley <aj0nr@...<http://mc/compose?to=aj0nr%40sbcglobal.net>
> >
> > Subject: Re: [GPSL] APRS abuse

> > To: GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Tuesday, August 3, 2010, 6:59 PM
> >
> > For a hobby that seems to be dieing off,he as well as others should be
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> > frequency,we all get to use it.
> > Jon Riley
> > AJ0NR--Project Traveler
> >
> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
> >
> >
> > From: ccccrnr@aim. com <ccccrnr@aim. com>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com
> > Date: Tuesday, August 3, 2010, 8:10 PM
> >
> > I have to respectfully disagree with most every thing said here.
> >
> > Here in Missouri there is little digi or i-gate network. and around St
> > Louis even with 1watt you very well might not get onto the internet
> > driving around.
> >
> > and most of the traffic is just weather beacons or digis balasting
> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> > about congestion or missing a packet.
> >
> > Also even in an area with a great Network like Kansas where GPSL was
> > this year, not everything gets in.
> > Not a signal packet after we got on the ground made it into the
> > network from a Fixed digi-igates, and we landed only a couple miles
> > outside of McPhearson. So normally nothing would have been heard once
> > we were on the ground, if it hadn't have been GPSL
> >
> > Also the more hardware you fly you increase cost, weight, and
> > batteries, you also decrease max altitude. Not to mention airtraffic
> > filing concerns, and impact load should you hit a house or car on the
> > ground.
> > There is also a responsibility to make sure you recover your gear and
> > not litter on other unsuspecting land owners.
> >
> > So levering the largely unused network out-there can make more sense
> > that saying throw another couple hundred dollars in the payload for
> > logging and forget it.
> >
> > Sincerely,
> > Carlton Corbitt
> > -.- .. ....- -. .... -.-
> >
> >

> >
> > -----Original Message-----
> > From: Zack Clobes <zclobes@gmail. com>
> > To: GPSL <GPSL@yahoogroups. com>
> > Sent: Tue, Aug 3, 2010 1:28 pm
> > Subject: Re: [GPSL] APRS abuse
> >
> > That's what we've done in the past. We then transmit the detected peak
> > periodically via a telemetry string for the entire descent.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler .org <http://www.projecttraveler.org/>
> >
> >
> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore
<eam52@...<http://mc/compose?to=eam52%40cam.ac>.
> uk
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:
> >
> > Or just log the gps on your flight computer. You'll have at least
> > 1hz altitude data that way, which is surely good enough- and
> > certainly well beyond vdop as mike says.
> >
> > Ed
> > CU Spaceflight
> >
> >
> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> > wrote:
> >
> >> Hi Brendan,
> >>
> >> EOSS has recovered 155 of its 155 payload stings to date over
> >> the past
> >> 20 years. During the first 5 years or so, GPS was beyond our
> >> reach, so
> >> we relied strictly on 2m DF triangulation. The key here is to have
> >> a tracking and recovery team deployed around the predicted
> >> landing site
> >> when the balloon launches.
> >>
> >> Since then, we were one of the first groups to fly a GPS-based
> >> APRS beacon.
> >> On that first flight, we ran on 144.39, and ended up crashing
> >> the KPC-3 due
> >> to the excessive amount of traffic that it heard at altitude. So
> >> we've moved
> >> back down to 144.34 and arrange for some home-based I-gates to

> >> get us into
> >> the "infrastructure" on every flight. It's no big deal. In fact,
> >> on most
> >> flights, one of our trackers has to do no more than tune his
> >> home xcvr down
> >> 50 kHz before he leaves home.
> >>
> >> Our APRS beacons have never run over 350 mW xmit power, and
> >> although we beacon
> >> GGA every 30 sec for our own flights, we can back off to 60 sec
> >> for shared
> >> freqs like at GPSL. This power level yields solid data out past
> >> 100 miles
> >> downrange at altitude (Line of sight is a magic thing), and
> >> further confers
> >> the benefit of extended operational life from a smaller, lighter
> >> battery.
> >>
> >> Although I can understand wanting to know your peak altitude as
> >> precisely
> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
> >> ft or 50m
> >> every 10 sec. That's less than the VDOP of your GPS reading -
> >> sort of like
> >> measuring with a micrometer and marking with chalk. Further, the
> >> only reason
> >> I can think of to record peak altitude that precisely would be
> >> if you were
> >> attempting to beat the current ARHAB record of over 128 K'. And
> >> if you're
> >> hauling up enough batteries to support a 10W xmtr beaconing
> >> every 10 sec,
> >> fugeddaboudit!
> >>
> >> Further, one can get a pretty good estimate of one's actual peak
> >> altitude
> >> by by finding the intersection of the ascent and descent
> >> regression lines
> >> taken from the data just before and after burst. It's not
> >> guesswork - just
> >> math.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 8/2/2010 23:11, Brenden Geary wrote:
> >> >
> >> >
> >> > Al,
> >> >
> >> > sorry I hit send by mistake...

> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
> >> also have a big
> >> > dad ;-) I have flown 3 balloon flights and I have used
> >> Wide1-1, Wide2-1 on
> >> > each flight. On each flight I was using a MT 8000 FA and every
> >> flight had
> >> > there own problems but on the last flight I have not recovered
> >> at all. I took
> >> > and passed my ham tech just so I can fly balloons, I really
> >> didn't have any
> >> > interest in talking on the radio... this is changing slowly.
> >> So at first I
> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
> >> another random
> >> > freq which I would monitor as a backup. I was told that the
> >> ham community
> >> > would hang me for such a thing. If some is good more is
> >> better... OK so I do
> >> > understand that every 10 seconds is crazy but I want concreat
> >> proof of the
> >> > highest my balloon went, if you ping every minute or two then
> >> you have to
> >> > guess... right? I can assure you that in my case it was
> >> ignorance not ego.
> >> > APRS is somewhat of an art or blackmajac until you get into
> >> it. I think emails
> >> > like yours will help bring awareness to the issue.
> >> >
> >> > Brenden Geary
> >> > KJ6HVP
> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
> >> <http://www.brendengeary.com/>
> >> >
> >> > --- On *Mon, 8/2/10, Brenden Geary /<
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
> >bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Brenden Geary <
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
> >bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
> >> > Subject: Re: [GPSL] APRS abuse
> >> > To:
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com

> >GPSL@yahoogroups.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
> >> > Date: Monday, August 2, 2010, 9:56 PM
> >> >
> >> > Al,
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad but I
> >> have flown 3
> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
> >> flight. On each
> >> > flight I was using a MT 8000 FA and every flight had there own
> >> problems
> >> > but on the last flight I have not recovered at all. I took and
> >> passed my
> >> > ham tech just so I can fly balloons, I really didn't have any
> >> interest in
> >> > talking on the radio... this is changing slowly. So at first I
> >> wanted to
> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
> >> >
> >> > --- On *Mon, 8/2/10, Al Wolfe /<
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>
> k9si@... <http://mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Al Wolfe <
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>
> k9si@... <http://mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
> >> > Subject: [GPSL] APRS abuse
> >> > To: GPSL@yahoogroups. com
> >> > Date: Monday, August 2, 2010, 10:12 AM
> >> >
> >> > I'm a veteran of several balloon chases dating back to the
> >> Wintrax days
> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
> >> and APRS in
> >> > tracking balloons. I have also seen remarkable growth in the
> >> abuse of the
> >> > APRS system in tracking balloons and don't know whether it is
> >> > ignorance or
> >> > egocentricalism.
> >> >
> >> > There have been several balloons lately aloft here in the
> >> Midwest with a
> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> >> useful near the

> >> > ground, it has no place while at any altitude. This is a very
> >> selfish
> >> > path!
> >> > It can cause every properly configured APRS station in an area
> >> of over
> >> > 100,000 square mile to repeat the balloon packets. While no
> >> path at all
> >> > would likely be fine, a path of Wide2-1 would probably not be
> >> considered
> >> > abusive. This would only fire off the digis.
> >> >
> >> > As I said a path with 1-x can certainly be useful near the
> >> ground when
> >> > trying to find a downed package. The Tiny Trak can change
> >> paths with a
> >> > simple contact closure. A simple anaroid or pressure switch
> >> would be all
> >> > that's needed to change to a less abusive path at some fairly low
> >> > altitude.
> >> > Or some simple telecommand system could be used.
> >> >
> >> > The APRS system has only a limited capacity and is shared by
> >> all the
> >> > users. Ten or twelve years ago it would take weeks to
> >> accumulate 300
> >> > different stations in the log here. Now it often takes only a
> >> couple of
> >> > hours to see that many. In many areas the digis are in nearly
> >> constant
> >> > use.
> >> > Eliminating the Wide1-1 balloon packets would certainly cut
> >> out some
> >> > of the
> >> > clamor.
> >> >
> >> > Some have argued that balloons should use another frequency
> >> than 144.39.
> >> > However, the infrastucture exists on 39 so it makes sense to
> >> use it. Just
> >> > don't abuse it.
> >> >
> >> > 73,
> >> > Al, K9SI
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >>

> >> --
> >> Mike Manes
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com
> >mrmanes@gmail.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
> >> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >
> >
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <http://mc/compose?to=mrmanes%40gmail.com>Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

7946. Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 21:50:49 UTC
From: k6rpt
Topic: 7946 Message: 7946

Currently my payload box has 1 ½" foam walls with a locking lid. I put it in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the internal temperature dropped from 70 to 5 degrees. I flew this same payload box to 105k feet with no problems, all equipment continued to work fine. I didn't think the internal temperature would drop so quickly. I'm running these tests because my upcoming high altitude attempt that will be in near space an additional 30 to 45 minutes longer than the average flight.

How thick should the foam walls be for a high altitude flight that will be in near space 30 to 45 minutes longer?

What is a safe internal operating temperature for the Garmin GPS 18 LVC and a Micro-Track 8000 FA?

-Ron K6RPT

7947. Science fair

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 21:55:12 UTC
From: Mike Manes
Topic: 7915 Message: 7947

Hi Brenden,

Well, shucks! It sounds as though you've got The Right Stuff to make your next flight a success! Just a few tips:

1. Back off on your APRS xmit power - the Alinco DJ-Cx series of credit card HTs have served EOSS excellently for years. They work fine from regulated +5Vdc, which may be the same source used by your GPS and flight computer.

2. Although "things should be made as possible, but not more so" does apply to the guts of your payload. Don't skimp on mechanical robustness of the stuff on the outside, however. PBC and a windy landing can break off antennas and break open weak enclosures. A good test is to kick the payload down a flight of stairs.

3. Cold soak you payload with power off in a food freezer at 0F (-16C) for about 4 hours, powered off. Then see if it powers up and runs OK.

4. Do run a separate backup beacon.

Now, I can understand everyone's wanting to watch the launch. And for a summer flight, where the landing isn't far from the launch site, that's OK. But in the winter, after the upper winds turn westerly, it's best to have your trackers out in the field at launch. Shanghai a videographer to film your launch to show the trackers, and trade it for a video of the descent and landing :=).

For your mission, recovery of your payload(s) intact is critical, so don't give Murphy an even break there.

Some suggestions for your science fair presentation:

Instead of just Boyle's Law, use Archimedes law to show why a balloon rises in the atmosphere. Might also show the how the lift of different gasses compare (some may be surprised that H2 isn't much better than He).

Use time as your independent variable only for GPS altitude. Explain why the ascent rate is nearly constant, while the descent rate under the parachute is exponential.

Plot your various in situ air measurements vs. altitude rather than time. Point out and explain the tropopause level.

Explain the time lag between internal and external temperature.

Note that relative humidity sensors are pretty temperature-sensitive, and most just won't work at all below freezing. Consider instead using a UV-sensitive photo-detector to show how UV solar intensity varies with altitude.

A common CdS photocell and UV filter in a resistive divider network feeding
the analog input of your logger should work.

Be sure to point out stuff that all this data taught you - that's something
judges look for, and as a bonus, where you hope to go with future flights.

And of course, the highlight of your display should be those photos of the
limb of Earth against the blackness of space!

73 de Mike W5VSI

On 8/4/2010 14:08, Brenden Geary wrote:
>
>
> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with open
> arms. They tried to put a link to my site on the home page but it's a dead
> link. I am trying to help them out but I think they are a little worried about
> a kid working on their site. I usually have a large group for my launch and
> nobody in the landing zone, everyone wants to watch it take off. Having a
> group in the predicted landing site is a great idea, I will see if I can get
> some people to monitor the predicted landing site. I didn't take any of your
> suggestions as criticism, I am on this list just soaking up the knowledge. As
> far as presenting my results in a half-way careful fashion, here are my ideas:
> Show the predicted flight path vs Actual flight path
> Display Boyles law which and explain why it makes the balloon pop
> Graph Time vs Barometric Pressure
> Graph Time vs humidity* *
> Graph Time vs Temp inside and outside the payload
> and of course the eye candy pictures at altitude.
>
> What do you think of my project? Anyone please feel free let me know what you
> think... its all good.
>
> Brenden
> KJ6HVP
>
>
>
> --- On *Wed, 8/4/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Wednesday, August 4, 2010, 11:42 AM
>
> Hi Brendan,
>
> I don't think that either ham radio or ARHAB is dying off. Many new hams
> get their tickets in order to enjoy perhaps a small sliver of the ham

> radio hobby, such as ARES or ARHAB, and later discover more and more of the
> vast array of activities offered by the hobby, such as DXing, microwaves,
> ARDF, etc. I'm sure that if you were to join up with a ham club in your
> area, you'd have a chance to see what I mean.
>
> EOSS actually sprung forth from a ham club called Western Vision Network,
> a Denver-area group of hams who specialized in ATV (amateur television). A
> few of them, inspired by Bill Brown's pioneering work, decided to fly an
> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
> WNV-1, but WVN died off years ago.
>
> You're right about ARHAB not dying off - if anything, it's growing like
> Topsy!
> 20 years ago, there were just a handful of balloon groups in the US, and
> none overseas. Today, there at least that many coming into the fold every few
> months!
>
> By the way, I may have hinted in an earlier response at one of EOSS's secrets
> to its recovery rate: have a tracking and recovery team already deployed when
> the balloon launches. Although ARHAB can be a "one man game", it's a lot more
> fun, and less costly, if you gather a team to work with you. Which points
> back to my earlier point about joining a ham club. I assure you that a young
> fellow such as yourself will be welcomed with open arms by some of those
> old timers who got their first tickets about your age - but back in the vacuum
> tube era.
>
> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
> you?
>
> You should know that relying strictly on the APRS infrastructure on 144.39
> is no guarantee of a successful recovery. Once the payload string descends
> below the radio horizon of the nearest digi or I-gate, you're out of the
> system, and you'd better have a closer tracking and recovery station that
> can hear you beacons. Quite often, although the APRS packet signal can be
> heard from a payload on the ground, it's too weak and noisy to decode. ANd
> the packet bursts are too brief to allow for a decent DF bearing. This is
> where you need a separate, independent DF beacon on the flight string that
> transmits a steady signal for 15 to 30 seconds every minute or so, with a
> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
> rely on some DFing if the landing site is way out in the boonies. By
> "independent" I mean a completely separate payload that doesn't share power,
> radio, computer or antenna with your APRS beacon, since any of those can
> fail and bring both beacons down.
>
> Please don't take any of these suggestions as criticism, Brenden. We're just
> trying to give you the benefit of some of the lessons that we've learned the
> hard way, and we sincerely hope that your next flight results in a quick
> recovery and some great in-flight pix. As a science fair judge myself, it's
> my opinion that if you present your flight and its results in a half-way
> careful fashion, you'll be on your way to the regional and perhaps even the

> state fairs!
>
> GL es 73 de Mike W5VSI
> CTO EOSS
>
> On 8/3/2010 20:57, Brenden Geary wrote:
> >
> >
> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
> > ticket so I can fly balloons. Yes I have had my issues and have lost a
> bunch
> > of money in my last payload. Thanks to family and friends, some on this
> list,
> > I will fly again on Sept 4. I plan on taking down the High School science
> > fair, if they will let me in. I'm only entering the 8th grade but when I do
> > take down the Science fair with my data and photos I expect to see more
> > balloons next year. I started when I saw the two or three MIT students
> fly, so
> > no I do not think it is dying I think it is just starting to take off.
> >
> > I live in Southern California and trust me I can see the congestion on the
> > APRS network. I thought I was being smart by trying to use a freq other
> than
> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
> > shouldn't do this because even if this freq is open in my area, it may
> not be
> > when I get to altitude when my signal will go for 100's of miles. I
> this bogus
> > info?
> >
> > What are your thoughts
> >
> > Brenden Geary
> > www.BrendenGeary.com
> > KJ6HVP
> >
> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...
> </mc/compose?to=aj0nr%40sbcglobal.net>>/* wrote:
> >
> >
> > From: Jon Riley <aj0nr@...
> </mc/compose?to=aj0nr%40sbcglobal.net>>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups.com </mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Tuesday, August 3, 2010, 6:59 PM
> >
> > For a hobby that seems to be dieing off,he as well as others should be
> > happy the frequency is being used.Last time I checked nobody OWNS a
> > frequency,we all get to use it.
> > Jon Riley

> > AJ0NR--Project Traveler
> >
> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
> >
> >
> > From: ccccrnr@aim. com <ccccrnr@aim. com>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com
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> > I have to respectfully disagree with most every thing said here.
> >
> > Here in Missouri there is little digi or i-gate network. and around St
> > Louis even with 1watt you very well might not get onto the internet
> > driving around.
> >
> > and most of the traffic is just weather beacons or digis balasting
> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> > about congestion or missing a packet.
> >
> > Also even in an area with a great Network like Kansas where GPSL was
> > this year, not everything gets in.
> > Not a signal packet after we got on the ground made it into the
> > network from a Fixed digi-igates, and we landed only a couple miles
> > outside of McPhearson. So normally nothing would have been heard once
> > we were on the ground, if it hadn't have been GPSL
> >
> > Also the more hardware you fly you increase cost, weight, and
> > batteries, you also decrease max altitude. Not to mention airtraffic
> > filing concerns, and impact load should you hit a house or car on the
> > ground.
> > There is also a responsibility to make sure you recover your gear and
> > not litter on other unsuspecting land owners.
> >
> > So levering the largely unused network out-there can make more sense
> > that saying throw another couple hundred dollars in the payload for
> > logging and forget it.
> >
> > Sincerely,
> > Carlton Corbitt
> > -.- .. ....- -. .... -.-
> >
> >
> >
> > -----Original Message-----
> > From: Zack Clobes <zclobes@gmail. com>
> > To: GPSL <GPSL@yahoogroups. com>
> > Sent: Tue, Aug 3, 2010 1:28 pm
> > Subject: Re: [GPSL] APRS abuse
> >

> > That's what we've done in the past. We then transmit the detected peak
> > periodically via a telemetry string for the entire descent.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler .org <http://www.projecttraveler.org/>
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> >
> > Or just log the gps on your flight computer. You'll have at least
> > 1hz altitude data that way, which is surely good enough- and
> > certainly well beyond vdop as mike says.
> >
> > Ed
> > CU Spaceflight
> >
> >
> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
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> > wrote:
> >
> >> Hi Brendan,
> >>
> >> EOSS has recovered 155 of its 155 payload stings to date over
> >> the past
> >> 20 years. During the first 5 years or so, GPS was beyond our
> >> reach, so
> >> we relied strictly on 2m DF triangulation. The key here is to have
> >> a tracking and recovery team deployed around the predicted
> >> landing site
> >> when the balloon launches.
> >>
> >> Since then, we were one of the first groups to fly a GPS-based
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> >> On that first flight, we ran on 144.39, and ended up crashing
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> >> the "infrastructure" on every flight. It's no big deal. In fact,
> >> on most
> >> flights, one of our trackers has to do no more than tune his
> >> home xcvr down
> >> 50 kHz before he leaves home.
> >>
> >> Our APRS beacons have never run over 350 mW xmit power, and

> >> although we beacon
> >> GGA every 30 sec for our own flights, we can back off to 60 sec
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> >> freqs like at GPSL. This power level yields solid data out past
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> >> Although I can understand wanting to know your peak altitude as
> >> precisely
> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
> >> ft or 50m
> >> every 10 sec. That's less than the VDOP of your GPS reading -
> >> sort of like
> >> measuring with a micrometer and marking with chalk. Further, the
> >> only reason
> >> I can think of to record peak altitude that precisely would be
> >> if you were
> >> attempting to beat the current ARHAB record of over 128 K'. And
> >> if you're
> >> hauling up enough batteries to support a 10W xmtr beaconing
> >> every 10 sec,
> >> fugeddaboudit!
> >>
> >> Further, one can get a pretty good estimate of one's actual peak
> >> altitude
> >> by by finding the intersection of the ascent and descent
> >> regression lines
> >> taken from the data just before and after burst. It's not
> >> guesswork - just
> >> math.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 8/2/2010 23:11, Brenden Geary wrote:
> >> >
> >> >
> >> > Al,
> >> >
> >> > sorry I hit send by mistake...
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
> >> also have a big
> >> > dad ;-) I have flown 3 balloon flights and I have used
> >> Wide1-1, Wide2-1 on
> >> > each flight. On each flight I was using a MT 8000 FA and every
> >> flight had
> >> > there own problems but on the last flight I have not recovered

> >> at all. I took
> >> > and passed my ham tech just so I can fly balloons, I really
> >> didn't have any
> >> > interest in talking on the radio... this is changing slowly.
> >> So at first I
> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
> >> another random
> >> > freq which I would monitor as a backup. I was told that the
> >> ham community
> >> > would hang me for such a thing. If some is good more is
> >> better... OK so I do
> >> > understand that every 10 seconds is crazy but I want concreat
> >> proof of the
> >> > highest my balloon went, if you ping every minute or two then
> >> you have to
> >> > guess... right? I can assure you that in my case it was
> >> ignorance not ego.
> >> > APRS is somewhat of an art or blackmajac until you get into
> >> it. I think emails
> >> > like yours will help bring awareness to the issue.
> >> >
> >> > Brenden Geary
> >> > KJ6HVP
> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
> >> <http://www.brendengeary.com/>
> >> >
> >> > --- On *Mon, 8/2/10, Brenden Geary /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Brenden Geary <
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
> >> > Subject: Re: [GPSL] APRS abuse
> >> > To:
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
> >> > Date: Monday, August 2, 2010, 9:56 PM
> >> >
> >> > Al,
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad but I

> >> have flown 3
> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
> >> flight. On each
> >> > flight I was using a MT 8000 FA and every flight had there own
> >> problems
> >> > but on the last flight I have not recovered at all. I took and
> >> passed my
> >> > ham tech just so I can fly balloons, I really didn't have any
> >> interest in
> >> > talking on the radio... this is changing slowly. So at first I
> >> wanted to
> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
> >> >
> >> > --- On *Mon, 8/2/10, Al Wolfe /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
</mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Al Wolfe <
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
</mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
> >> > Subject: [GPSL] APRS abuse
> >> > To: GPSL@yahoogroups. com
> >> > Date: Monday, August 2, 2010, 10:12 AM
> >> >
> >> > I'm a veteran of several balloon chases dating back to the
> >> Wintrax days
> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
> >> and APRS in
> >> > tracking balloons. I have also seen remarkable growth in the
> >> abuse of the
> >> > APRS system in tracking balloons and don't know whether it is
> >> > ignorance or
> >> > egocentricalism.
> >> >
> >> > There have been several balloons lately aloft here in the
> >> Midwest with a
> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> >> useful near the
> >> > ground, it has no place while at any altitude. This is a very
> >> selfish
> >> > path!
> >> > It can cause every properly configured APRS station in an area
> >> of over
> >> > 100,000 square mile to repeat the balloon packets. While no

> >> path at all
> >> > would likely be fine, a path of Wide2-1 would probably not be
> >> considered
> >> > abusive. This would only fire off the digis.
> >> >
> >> > As I said a path with 1-x can certainly be useful near the
> >> ground when
> >> > trying to find a downed package. The Tiny Trak can change
> >> paths with a
> >> > simple contact closure. A simple anaroid or pressure switch
> >> would be all
> >> > that's needed to change to a less abusive path at some fairly low
> >> > altitude.
> >> > Or some simple telecommand system could be used.
> >> >
> >> > The APRS system has only a limited capacity and is shared by
> >> all the
> >> > users. Ten or twelve years ago it would take weeks to
> >> accumulate 300
> >> > different stations in the log here. Now it often takes only a
> >> couple of
> >> > hours to see that many. In many areas the digis are in nearly
> >> constant
> >> > use.
> >> > Eliminating the Wide1-1 balloon packets would certainly cut
> >> out some
> >> > of the
> >> > clamor.
> >> >
> >> > Some have argued that balloons should use another frequency
> >> than 144.39.
> >> > However, the infrastucture exists on 39 so it makes sense to
> >> use it. Just
> >> > don't abuse it.
> >> >
> >> > 73,
> >> > Al, K9SI
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >>
> >> --
> >> Mike Manes
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>

> >> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >
> >
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... </mc/compose?to=mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7948. Re: [GPSL] Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 21:58:06 UTC
From: L. Paul Verhage
Topic: 7946 Message: 7948

I run with 3/4 inch thick walls and don't drop below 32 *F except early during descent. Exterior color does make a difference. Do you have dark colors on the exterior?

Paul

On Wed, Aug 4, 2010 at 4:50 PM, k6rpt <Ron@mysystem.com> wrote:

> Currently my payload box has 1 ½" foam walls with a locking lid. I put it
> in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the
> internal temperature dropped from 70 to 5 degrees. I flew this same payload
> box to 105k feet with no problems, all equipment continued to work fine. I
> didn't think the internal temperature would drop so quickly. I'm running
> these tests because my upcoming high altitude attempt that will be in near
> space an additional 30 to 45 minutes longer than the average flight.
>
> How thick should the foam walls be for a high altitude flight that will be
> in near space 30 to 45 minutes longer?
>
> What is a safe internal operating temperature for the Garmin GPS 18 LVC and
> a Micro-Track 8000 FA?
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7949. Re: [GPSL] Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 22:05:34 UTC
From: Mike Manes
Topic: 7946 Message: 7949

Hi Ron,

EOSS uses 1/4" foamcore for its payload enclosures, and the lowest internal air temp we've seen internally is about zero F. Note that as the air gets thinner, its capacity to carry heat away is diminished, so don't fret. If your payload guts powers up and operates OK after a 2-4 cold soak at -16C (zero F), then you'll be OK - and if you're dissipating more than a few watts internally, you may even find that those 1.5" foam walls are overkill for a typical 2.5 hr trip to 100K' and back down, provided the entire flight is during the day - things can get a LOT colder over night with no solar flux.

73 de Mike W5VSI

On 8/4/2010 15:50, k6rpt wrote:
> Currently my payload box has 1 ½" foam walls with a locking lid. I put it in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the internal temperature dropped from 70 to 5 degrees. I flew this same payload box to 105k feet with no problems, all equipment continued to work fine. I didn't think the internal temperature would drop so quickly. I'm running these tests because my upcoming high altitude attempt that will be in near space an additional 30 to 45 minutes longer than the average flight.
>
> How thick should the foam walls be for a high altitude flight that will be in near space 30 to 45 minutes longer?
>
> What is a safe internal operating temperature for the Garmin GPS 18 LVC and a Micro-Track 8000 FA?
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7950. Re: [GPSL] Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 22:15:18 UTC
From: Zack Clobes
Topic: 7946 Message: 7950

We generally run 1/2 or 3/4" walls and have had no problems staying above about -3C. Most electronics are good for -20C to -50C. The batteries are typically the limiting factor.

Lithiums (primary and rechargeable) seem to be good for well below freezing.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Aug 4, 2010 at 5:05 PM, Mike Manes <mrmanes@gmail.com> wrote:

>
>
> Hi Ron,
>
> EOSS uses 1/4" foamcore for its payload enclosures, and the lowest internal
>
> air temp we've seen internally is about zero F. Note that as the air gets
> thinner, its capacity to carry heat away is diminished, so don't fret. If
> your payload guts powers up and operates OK after a 2-4 cold soak at -16C (
> zero F), then you'll be OK - and if you're dissipating more than a few
> watts
> internally, you may even find that those 1.5" foam walls are overkill for
> a typical 2.5 hr trip to 100K' and back down, provided the entire flight
> is during the day - things can get a LOT colder over night with no solar
> flux.
>
> 73 de Mike W5VSI
>
>
> On 8/4/2010 15:50, k6rpt wrote:
> > Currently my payload box has 1 ½" foam walls with a locking lid. I put it
> in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the
> internal temperature dropped from 70 to 5 degrees. I flew this same payload
> box to 105k feet with no problems, all equipment continued to work fine. I
> didn't think the internal temperature would drop so quickly. I'm running
> these tests because my upcoming high altitude attempt that will be in near
> space an additional 30 to 45 minutes longer than the average flight.
> >
> > How thick should the foam walls be for a high altitude flight that will
> be in near space 30 to 45 minutes longer?
> >
> > What is a safe internal operating temperature for the Garmin GPS 18 LVC
> and a Micro-Track 8000 FA?
> >

> > -Ron K6RPT
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

7951. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 23:04:21 UTC
From: Mike Manes
Topic: 7915 Message: 7951

Since EOSS operates off the 144.39 backbone, we don't sweat overloading the infrastucture. In fact, the AE0SS-11 and KC0YA-11 APRS modules both use the digi alias of EOSS, and our tracking teams use adaptive beaconing via EOSS. That allows all of us on the ground to see where the trackers are in near-real time, and when we fly a two-fer, the 2nd balloon also digipeats the landing spot of the 1st one - too cool!

The freq DOES get pretty busy, but then again, we're the only ones there, and with just 300 mW to a J=pole, we're not gonna be QRMing folks out at the radio horizon - for long anyway.

All it takes is one or two decent I-gates set up in advance on 144.34.

73 de Mike W5VSI

On 8/3/2010 08:56, Michael Willett wrote:
>
>
>
> This APRS topic as it relates to ARHABing is not widely publicized, but I have
> learned the following over the past year:
>
> Wide2-1 or [EMPTY PATH FIELD] is for altitudes that are over a few thousand
> feet AGL (Above Ground Level), where the radio horizon can now hit several
> digi's.
>
> EMPTY PATH FIELD means leave the path field blank in the config program.
>
> Wide1-1, WIDE2-1 would be for under a few thousand feet where the radio
> horizon is a small foot print and the APRS needs help getting to a repeater or
> digi.
>
> In sparse, very low population areas, where few digi's or repeaters exist, I
> might get more aggressive with the setting to let a bit of chaos out for the
> last few thousand feet with WIDE2-2.
>
> If you are flying an Open Tracker or Tiny Track of late, some have the ability
> to do bank switching. You program the tracker to bank switch based on altitude.
>
> If altitude < 2000 ft AGL, use bank 1, which is the same as bank 2 with the
> exception that the path is WIDE1-1, WIDE2-1 in that order.
>
> If altitude is >2000 ft AGL, use bank 2, where the Path is [EMPTY PATH FIELD]
> for a metro-like area, or WIDE2-1 for a less dense area and never more than
> these two in most any other area.
>

> The altitude to switch is debatable, but as a rule up to a few thousand AGL
> (Above Ground Level) should get the job done with WIDE1-1, and no path or
> WIDE2-1 will get the job done up higher.
>
> So if you are in Denver, the altitude is about 5280 ft already, you would
> switch banks at say 6500 ft, because the radio horizon to the east, north and
> south increase rapidly on their own. Here in the Dallas area we are at around
> 650 ft ASL, so we would switch at 650 + 2000 or 2650 ft, I set mine for around
> 3000 just to make the APRS police perspire a bit, then go to no path or
> WIDE2-1 only. :)
>
> --Michael K5NOT
>
>
>
> On 8/3/2010 9:29 AM, L. Paul Verhage wrote:
>> Part of that might be me. I'll check my TT3 program when I get home.
>> So Wide2-1 on ascent and Wide1-? for descent?
>> Paul
>>
>> On Tue, Aug 3, 2010 at 1:34 AM, <wb8elk@... <mailto:wb8elk@...>> wrote:
>>
>>
>>
>>
>> Glad to hear that high altitude ballooning got you into high
>> altitude ballooning
>>
>> I meant to type: Glad to hear the high altitude ballooning got you into
>> amateur radio.
>> - Bill typing on a small netbook with tiny keys whiloe on vacation in Ohio
>>
>>
>>
>> -----Original Message-----
>> From: wb8elk@... <mailto:wb8elk@...>
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Sent: Tue, Aug 3, 2010 1:31 am
>> Subject: Re: [GPSL] APRS abuse
>>
>> Hi Brenden,
>> Glad to hear that high altitude ballooning got you into high altitude
>> ballooning. Please feel free to ask for advice on setting up APRS fofr
>> balloons here as some of the true pioneers in high altitude ballooning
>> are on this list (this August 15th will be my 23rd year of ballooning).
>> As to using 144.39, 200 milliwatts is alll you need...10 watts is way
>> overkill and uses up your batteries in short order....and WIDE2-1 is
>> what most use for the path....also an update of just 1 minute is all
>> that's needed....the combination of WIDE1-1, 10 second intervals along
>> with 10 watts will definitely cause quite a lot of prob lems with the

>> APRS network I would think.
>> Once again welcome to high altitude ballooning and amateur radio.
>> - Bill Brown WB8ELK
>>
>>
>>
>>
>> -----Original Message-----
>> From: Brenden Geary <bjgeary@... <mailto:bjgeary@...>>
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Sent: Mon, Aug 2, 2010 11:56 pm
>> Subject: Re: [GPSL] APRS abuse
>>
>> Al,
>>
>> I will be 14 in a few weeks so don't beat me up too bad but I have flown
>> 3 balloon flights and I have used Wide1-1, Wide2-1 on each flight. On
>> each flight I was using a MT 8000 FA and every flight had there own
>> problems but on the last flight I have not recovered at all. I took and
>> passed my ham tech just so I can fly balloons, I really didn't have any
>> interest in talking on the radio... this is changing slowly. So at first
>> I wanted to transmit at 10watts every 10 seconds on 144.39 and another freq
>>
>> --- On *Mon, 8/2/10, Al Wolfe /<k9si@... <mailto:k9si@...>>/*
>> wrote:
>>
>>
>> From: Al Wolfe <k9si@... <mailto:k9si@...>>
>> Subject: [GPSL] APRS abuse
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Date: Monday, August 2, 2010, 10:12 AM
>>
>> I'm a veteran of several balloon chases dating back to the Wintrax days
>> in Indiana. I have seen a phenomenal growth in the use of GPS and
>> APRS in
>> tracking balloons. I have also seen remarkable growth in the abuse
>> of the
>> APRS system in tracking balloons and don't know whether it is
>> ignorance or
>> egocentricalism.
>>
>> There have been several balloons lately aloft here in the Midwest
>> with a
>> path of Wide1-1, Wide2-x. While the 1-1 may certainly be useful near
>> the
>> ground, it has no place while at any altitude. This is a very
>> selfish path!
>> It can cause every properly configured APRS station in an area of over
>> 100,000 square mile to repeat the balloon packets. While no path at all
>> would likely be fine, a path of Wide2-1 would probably not be

>> considered
>> abusive. This would only fire off the digis.
>>
>> As I said a path with 1-x can certainly be useful near the ground when
>> trying to find a downed package. The Tiny Trak can change paths with a
>> simple contact closure. A simple anaroid or pressure switch would be
>> all
>> that's needed to change to a less abusive path at some fairly low
>> altitude.
>> Or some simple telecommand system could be used.
>>
>> The APRS system has only a limited capacity and is shared by all the
>> users. Ten or twelve years ago it would take weeks to accumulate 300
>> different stations in the log here. Now it often takes only a couple of
>> hours to see that many. In many areas the digis are in nearly
>> constant use.
>> Eliminating the Wide1-1 balloon packets would certainly cut out some
>> of the
>> clamor.
>>
>> Some have argued that balloons should use another frequency than
>> 144.39.
>> However, the infrastucture exists on 39 so it makes sense to use it.
>> Just
>> don't abuse it.
>>
>> 73,
>> Al, K9SI
>>
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>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7952. RE: [GPSL] Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-04 23:08:26 UTC
From: Meer, Stephen
Topic: 7946 Message: 7952

A trick I use with the K0SCC payloads is to heat the batteries in a standard heating pad to 90 degrees F prior to sealing them into the payload envelope. The thermal mass does wonders for keeping the temp up.

One of my flight packages is a GPS relay that consists of a Garmin 15 series GPS board, a Digi ZigBee RF deck and a small AVR processor. The entire package will run for a couple of days from a single alkaline 9 volt battery at normal room temp. The exterior package is constructed from ½ inch foam core board and has an internal volume of approximately 36 cubic inches. My experience is that I can heat the battery to 90 degrees, seal it in, fly it and after recovery about 4 hours later the battery is still more than a little warm to touch.

/s/Stephen Meer, K0SCC
EOSS

7953. Re: Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 01:03:38 UTC
From: k6rpt
Topic: 7946 Message: 7953

The payload box is white and Northern California TRACON wants me of the ground by 5 ☐ 5:30am. I would assume that I would still benefit form solar heat if I painted the box black with Krylon foam safe paint. Will Krylon paint block RF for the GPS to receive?

-Ron K6RPT

--- In GPSL@...m, "L. Paul Verhage" <nearsys@...> wrote:
>
> I run with 3/4 inch thick walls and don't drop below 32 *F except early
> during descent. Exterior color does make a difference. Do you have dark
> colors on the exterior?
>
> Paul
>
> On Wed, Aug 4, 2010 at 4:50 PM, k6rpt <Ron@...> wrote:
>
> > Currently my payload box has 1 ½" foam walls with a locking lid. I put it
> > in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the
> > internal temperature dropped from 70 to 5 degrees. I flew this same payload
> > box to 105k feet with no problems, all equipment continued to work fine. I
> > didn't think the internal temperature would drop so quickly. I'm running
> > these tests because my upcoming high altitude attempt that will be in near
> > space an additional 30 to 45 minutes longer than the average flight.
> >
> > How thick should the foam walls be for a high altitude flight that will be
> > in near space 30 to 45 minutes longer?
> >
> > What is a safe internal operating temperature for the Garmin GPS 18 LVC and
> > a Micro-Track 8000 FA?
> >
> > -Ron K6RPT
> >
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> >
> > Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
>

7954. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 01:22:35 UTC
From: Joe
Topic: 7915 Message: 7954
Attachments: 1 described; binary payloads are missing from this source WARC

Brendon.

Here at Near Space Sciences, we have people down range also waiting for the payload to come to them. To the predicted landing site. The last dozen flights of so every flight has been watched come down under the parachute. Their goal is to actually catch one. They haven't done that yet but have come withinn 10 yards of doing it. he was sooo mad! he he he. but down range in the winter.

But in the summer months especially during turnaround months. Most of our chase crew are at tha launch site to watch it leave. There is plenty of time to get into the landing area when it's not that far away.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/4/2010 3:08 PM, Brenden Geary wrote:
>
>
> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with
> open arms. They tried to put a link to my site on the home page but
> it's a dead link. I am trying to help them out but I think they are a
> little worried about a kid working on their site. I usually have a
> large group for my launch and nobody in the landing zone, everyone
> wants to watch it take off. Having a group in the predicted landing
> site is a great idea, I will see if I can get some people to monitor
> the predicted landing site. I didn't take any of your suggestions as
> criticism, I am on this list just soaking up the knowledge. As far as
> presenting my results in a half-way careful fashion, here are my ideas:
> Show the predicted flight path vs Actual flight path
> Display Boyles law which and explain why it makes the balloon pop
> Graph Time vs Barometric Pressure
> Graph Time vs humidity* *
> Graph Time vs Temp inside and outside the payload
> and of course the eye candy pictures at altitude.
>
> What do you think of my project? Anyone please feel free let me know
> what you think... its all good.
>
> Brenden
> KJ6HVP

>
>
>
> --- On *Wed, 8/4/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Wednesday, August 4, 2010, 11:42 AM
>
> Hi Brendan,
>
> I don't think that either ham radio or ARHAB is dying off. Many
> new hams
> get their tickets in order to enjoy perhaps a small sliver of the ham
> radio hobby, such as ARES or ARHAB, and later discover more and
> more of the
> vast array of activities offered by the hobby, such as DXing,
> microwaves,
> ARDF, etc. I'm sure that if you were to join up with a ham club in
> your
> area, you'd have a chance to see what I mean.
>
> EOSS actually sprung forth from a ham club called Western Vision
> Network,
> a Denver-area group of hams who specialized in ATV (amateur
> television). A
> few of them, inspired by Bill Brown's pioneering work, decided to
> fly an
> ATV transmitter and camera into the stratosphere. So EOSS-1 was
> actually
> WNV-1, but WVN died off years ago.
>
> You're right about ARHAB not dying off - if anything, it's growing
> like Topsy!
> 20 years ago, there were just a handful of balloon groups in the
> US, and
> none overseas. Today, there at least that many coming into the
> fold every few
> months!
>
> By the way, I may have hinted in an earlier response at one of
> EOSS's secrets
> to its recovery rate: have a tracking and recovery team already
> deployed when
> the balloon launches. Although ARHAB can be a "one man game", it's
> a lot more
> fun, and less costly, if you gather a team to work with you. Which

> points
> back to my earlier point about joining a ham club. I assure you
> that a young
> fellow such as yourself will be welcomed with open arms by some of
> those
> old timers who got their first tickets about your age - but back
> in the vacuum
> tube era.
>
> I think you typoed "154.39" in your earlier email - you meant
> 145.39 didn't
> you?
>
> You should know that relying strictly on the APRS infrastructure
> on 144.39
> is no guarantee of a successful recovery. Once the payload string
> descends
> below the radio horizon of the nearest digi or I-gate, you're out
> of the
> system, and you'd better have a closer tracking and recovery
> station that
> can hear you beacons. Quite often, although the APRS packet signal
> can be
> heard from a payload on the ground, it's too weak and noisy to
> decode. ANd
> the packet bursts are too brief to allow for a decent DF bearing.
> This is
> where you need a separate, independent DF beacon on the flight
> string that
> transmits a steady signal for 15 to 30 seconds every minute or so,
> with a
> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
> rely on some DFing if the landing site is way out in the boonies. By
> "independent" I mean a completely separate payload that doesn't
> share power,
> radio, computer or antenna with your APRS beacon, since any of
> those can
> fail and bring both beacons down.
>
> Please don't take any of these suggestions as criticism, Brenden.
> We're just
> trying to give you the benefit of some of the lessons that we've
> learned the
> hard way, and we sincerely hope that your next flight results in a
> quick
> recovery and some great in-flight pix. As a science fair judge
> myself, it's
> my opinion that if you present your flight and its results in a
> half-way
> careful fashion, you'll be on your way to the regional and perhaps

> even the
> state fairs!
>
> GL es 73 de Mike W5VSI
> CTO EOSS
>
> On 8/3/2010 20:57, Brenden Geary wrote:
> >
> >
> > Which hobby seems to be dying off? HAM or ARHAB... or both? I
> got my ham
> > ticket so I can fly balloons. Yes I have had my issues and have
> lost a bunch
> > of money in my last payload. Thanks to family and friends, some
> on this list,
> > I will fly again on Sept 4. I plan on taking down the High
> School science
> > fair, if they will let me in. I'm only entering the 8th grade
> but when I do
> > take down the Science fair with my data and photos I expect to
> see more
> > balloons next year. I started when I saw the two or three MIT
> students fly, so
> > no I do not think it is dying I think it is just starting to
> take off.
> >
> > I live in Southern California and trust me I can see the
> congestion on the
> > APRS network. I thought I was being smart by trying to use a
> freq other than
> > 144.39 like 154.39 and use my D700 to track it myself. I was
> told that I
> > shouldn't do this because even if this freq is open in my area,
> it may not be
> > when I get to altitude when my signal will go for 100's of
> miles. I this bogus
> > info?
> >
> > What are your thoughts
> >
> > Brenden Geary
> > www.BrendenGeary.com
> > KJ6HVP
> >
> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...
> </mc/compose?to=aj0nr%40sbcglobal.net>>/* wrote:
> >
> >
> > From: Jon Riley <aj0nr@...
> </mc/compose?to=aj0nr%40sbcglobal.net>>

> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups.com </mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Tuesday, August 3, 2010, 6:59 PM
> >
> > For a hobby that seems to be dieing off,he as well as others
> should be
> > happy the frequency is being used.Last time I checked nobody OWNS a
> > frequency,we all get to use it.
> > Jon Riley
> > AJ0NR--Project Traveler
> >
> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
> >
> >
> > From: ccccrnr@aim. com <ccccrnr@aim. com>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com
> > Date: Tuesday, August 3, 2010, 8:10 PM
> >
> > I have to respectfully disagree with most every thing said here.
> >
> > Here in Missouri there is little digi or i-gate network. and
> around St
> > Louis even with 1watt you very well might not get onto the internet
> > driving around.
> >
> > and most of the traffic is just weather beacons or digis balasting
> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> > about congestion or missing a packet.
> >
> > Also even in an area with a great Network like Kansas where GPSL was
> > this year, not everything gets in.
> > Not a signal packet after we got on the ground made it into the
> > network from a Fixed digi-igates, and we landed only a couple miles
> > outside of McPhearson. So normally nothing would have been heard
> once
> > we were on the ground, if it hadn't have been GPSL
> >
> > Also the more hardware you fly you increase cost, weight, and
> > batteries, you also decrease max altitude. Not to mention airtraffic
> > filing concerns, and impact load should you hit a house or car
> on the
> > ground.
> > There is also a responsibility to make sure you recover your
> gear and
> > not litter on other unsuspecting land owners.
> >
> > So levering the largely unused network out-there can make more sense
> > that saying throw another couple hundred dollars in the payload for
> > logging and forget it.

> >
> > Sincerely,
> > Carlton Corbitt
> > -.- .. ....- -. .... -.-
> >
> >
> >
> > -----Original Message-----
> > From: Zack Clobes <zclobes@gmail. com>
> > To: GPSL <GPSL@yahoogroups. com>
> > Sent: Tue, Aug 3, 2010 1:28 pm
> > Subject: Re: [GPSL] APRS abuse
> >
> > That's what we've done in the past. We then transmit the
> detected peak
> > periodically via a telemetry string for the entire descent.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler .org <http://www.projecttraveler.org/>
> >
> >
> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@...
> </mc/compose?to=eam52%40cam.ac>. uk
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>>
> wrote:
> >
> > Or just log the gps on your flight computer. You'll have at least
> > 1hz altitude data that way, which is surely good enough- and
> > certainly well beyond vdop as mike says.
> >
> > Ed
> > CU Spaceflight
> >
> >
> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> > wrote:
> >
> >> Hi Brendan,
> >>
> >> EOSS has recovered 155 of its 155 payload stings to date over
> >> the past
> >> 20 years. During the first 5 years or so, GPS was beyond our
> >> reach, so
> >> we relied strictly on 2m DF triangulation. The key here is to have
> >> a tracking and recovery team deployed around the predicted
> >> landing site
> >> when the balloon launches.
> >>

> >> Since then, we were one of the first groups to fly a GPS-based
> >> APRS beacon.
> >> On that first flight, we ran on 144.39, and ended up crashing
> >> the KPC-3 due
> >> to the excessive amount of traffic that it heard at altitude. So
> >> we've moved
> >> back down to 144.34 and arrange for some home-based I-gates to
> >> get us into
> >> the "infrastructure" on every flight. It's no big deal. In fact,
> >> on most
> >> flights, one of our trackers has to do no more than tune his
> >> home xcvr down
> >> 50 kHz before he leaves home.
> >>
> >> Our APRS beacons have never run over 350 mW xmit power, and
> >> although we beacon
> >> GGA every 30 sec for our own flights, we can back off to 60 sec
> >> for shared
> >> freqs like at GPSL. This power level yields solid data out past
> >> 100 miles
> >> downrange at altitude (Line of sight is a magic thing), and
> >> further confers
> >> the benefit of extended operational life from a smaller, lighter
> >> battery.
> >>
> >> Although I can understand wanting to know your peak altitude as
> >> precisely
> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
> >> ft or 50m
> >> every 10 sec. That's less than the VDOP of your GPS reading -
> >> sort of like
> >> measuring with a micrometer and marking with chalk. Further, the
> >> only reason
> >> I can think of to record peak altitude that precisely would be
> >> if you were
> >> attempting to beat the current ARHAB record of over 128 K'. And
> >> if you're
> >> hauling up enough batteries to support a 10W xmtr beaconing
> >> every 10 sec,
> >> fugeddaboudit!
> >>
> >> Further, one can get a pretty good estimate of one's actual peak
> >> altitude
> >> by by finding the intersection of the ascent and descent
> >> regression lines
> >> taken from the data just before and after burst. It's not
> >> guesswork - just
> >> math.
> >>
> >> 73 de Mike W5VSI

> >>
> >> On 8/2/2010 23:11, Brenden Geary wrote:
> >> >
> >> >
> >> > Al,
> >> >
> >> > sorry I hit send by mistake...
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
> >> also have a big
> >> > dad ;-) I have flown 3 balloon flights and I have used
> >> Wide1-1, Wide2-1 on
> >> > each flight. On each flight I was using a MT 8000 FA and every
> >> flight had
> >> > there own problems but on the last flight I have not recovered
> >> at all. I took
> >> > and passed my ham tech just so I can fly balloons, I really
> >> didn't have any
> >> > interest in talking on the radio... this is changing slowly.
> >> So at first I
> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
> >> another random
> >> > freq which I would monitor as a backup. I was told that the
> >> ham community
> >> > would hang me for such a thing. If some is good more is
> >> better... OK so I do
> >> > understand that every 10 seconds is crazy but I want concreat
> >> proof of the
> >> > highest my balloon went, if you ping every minute or two then
> >> you have to
> >> > guess... right? I can assure you that in my case it was
> >> ignorance not ego.
> >> > APRS is somewhat of an art or blackmajac until you get into
> >> it. I think emails
> >> > like yours will help bring awareness to the issue.
> >> >
> >> > Brenden Geary
> >> > KJ6HVP
> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
> >> <http://www.brendengeary.com/>
> >> >
> >> > --- On *Mon, 8/2/10, Brenden Geary /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Brenden Geary <

> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
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> >> > Subject: Re: [GPSL] APRS abuse
> >> > To:
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
> >> > Date: Monday, August 2, 2010, 9:56 PM
> >> >
> >> > Al,
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad but I
> >> have flown 3
> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
> >> flight. On each
> >> > flight I was using a MT 8000 FA and every flight had there own
> >> problems
> >> > but on the last flight I have not recovered at all. I took and
> >> passed my
> >> > ham tech just so I can fly balloons, I really didn't have any
> >> interest in
> >> > talking on the radio... this is changing slowly. So at first I
> >> wanted to
> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
> >> >
> >> > --- On *Mon, 8/2/10, Al Wolfe /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
> </mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Al Wolfe <
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
> </mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
> >> > Subject: [GPSL] APRS abuse
> >> > To: GPSL@yahoogroups. com
> >> > Date: Monday, August 2, 2010, 10:12 AM
> >> >
> >> > I'm a veteran of several balloon chases dating back to the
> >> Wintrax days
> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
> >> and APRS in
> >> > tracking balloons. I have also seen remarkable growth in the

> >> abuse of the
> >> > APRS system in tracking balloons and don't know whether it is
> >> > ignorance or
> >> > egocentricalism.
> >> >
> >> > There have been several balloons lately aloft here in the
> >> Midwest with a
> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> >> useful near the
> >> > ground, it has no place while at any altitude. This is a very
> >> selfish
> >> > path!
> >> > It can cause every properly configured APRS station in an area
> >> of over
> >> > 100,000 square mile to repeat the balloon packets. While no
> >> path at all
> >> > would likely be fine, a path of Wide2-1 would probably not be
> >> considered
> >> > abusive. This would only fire off the digis.
> >> >
> >> > As I said a path with 1-x can certainly be useful near the
> >> ground when
> >> > trying to find a downed package. The Tiny Trak can change
> >> paths with a
> >> > simple contact closure. A simple anaroid or pressure switch
> >> would be all
> >> > that's needed to change to a less abusive path at some fairly low
> >> > altitude.
> >> > Or some simple telecommand system could be used.
> >> >
> >> > The APRS system has only a limited capacity and is shared by
> >> all the
> >> > users. Ten or twelve years ago it would take weeks to
> >> accumulate 300
> >> > different stations in the log here. Now it often takes only a
> >> couple of
> >> > hours to see that many. In many areas the digis are in nearly
> >> constant
> >> > use.
> >> > Eliminating the Wide1-1 balloon packets would certainly cut
> >> out some
> >> > of the
> >> > clamor.
> >> >
> >> > Some have argued that balloons should use another frequency
> >> than 144.39.
> >> > However, the infrastucture exists on 39 so it makes sense to
> >> use it. Just
> >> > don't abuse it.
> >> >

> >> > 73,
> >> > Al, K9SI
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >>
> >> --
> >> Mike Manes
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
> >> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >
> >
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>
>
>

7955. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 01:25:12 UTC
From: Zack Clobes
Topic: 7915 Message: 7955
Attachments: 1 described; binary payloads are missing from this source WARC

I always thought half the fun was trying to beat the payload to the site of impact!

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Wed, Aug 4, 2010 at 8:22 PM, Joe <nss@...> wrote:

> Brendon.
>
> Here at Near Space Sciences, we have people down range also waiting for the
> payload to come to them. To the predicted landing site. The last dozen
> flights of so every flight has been watched come down under the parachute.
> Their goal is to actually catch one. They haven't done that yet but have
> come withinn 10 yards of doing it. he was sooo mad! he he he. but down
> range in the winter.
>
> But in the summer months especially during turnaround months. Most of our
> chase crew are at tha launch site to watch it leave. There is plenty of
> time to get into the landing area when it's not that far away.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/4/2010 3:08 PM, Brenden Geary wrote:
>
> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with
> open arms. They tried to put a link to my site on the home page but it's a
> dead link. I am trying to help them out but I think they are a little
> worried about a kid working on their site. I usually have a large group for
> my launch and nobody in the landing zone, everyone wants to watch it take
> off. Having a group in the predicted landing site is a great idea, I will
> see if I can get some people to monitor the predicted landing site. I
> didn't take any of your suggestions as criticism, I am on this list just
> soaking up the knowledge. As far as presenting my results in a half-way
> careful fashion, here are my ideas:
> Show the predicted flight path vs Actual flight path
> Display Boyles law which and explain why it makes the balloon pop
> Graph Time vs Barometric Pressure
> Graph Time vs humidity* *

> Graph Time vs Temp inside and outside the payload
> and of course the eye candy pictures at altitude.
>
> What do you think of my project? Anyone please feel free let me know what
> you think... its all good.
>
> Brenden
> KJ6HVP
>
>
>
> --- On *Wed, 8/4/10, Mike Manes <mrmanes@...> <mrmanes@...>*wrote:
>
>
> From: Mike Manes <mrmanes@...> <mrmanes@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...> <bjgeary@...>
> Date: Wednesday, August 4, 2010, 11:42 AM
>
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> Hi Brendan,
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> I don't think that either ham radio or ARHAB is dying off. Many new hams
> get their tickets in order to enjoy perhaps a small sliver of the ham
> radio hobby, such as ARES or ARHAB, and later discover more and more of the
> vast array of activities offered by the hobby, such as DXing, microwaves,
> ARDF, etc. I'm sure that if you were to join up with a ham club in your
> area, you'd have a chance to see what I mean.
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> EOSS actually sprung forth from a ham club called Western Vision Network,
> a Denver-area group of hams who specialized in ATV (amateur television). A
> few of them, inspired by Bill Brown's pioneering work, decided to fly an
> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
> WNV-1, but WVN died off years ago.
>
> You're right about ARHAB not dying off - if anything, it's growing like
> Topsy!
> 20 years ago, there were just a handful of balloon groups in the US, and
> none overseas. Today, there at least that many coming into the fold every
> few
> months!
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> By the way, I may have hinted in an earlier response at one of EOSS's
> secrets
> to its recovery rate: have a tracking and recovery team already deployed
> when
> the balloon launches. Although ARHAB can be a "one man game", it's a lot
> more

> fun, and less costly, if you gather a team to work with you. Which points
> back to my earlier point about joining a ham club. I assure you that a
> young
> fellow such as yourself will be welcomed with open arms by some of those
> old timers who got their first tickets about your age - but back in the
> vacuum
> tube era.
>
> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
> you?
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> You should know that relying strictly on the APRS infrastructure on 144.39
> is no guarantee of a successful recovery. Once the payload string descends
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> system, and you'd better have a closer tracking and recovery station that
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> heard from a payload on the ground, it's too weak and noisy to decode. ANd
> the packet bursts are too brief to allow for a decent DF bearing. This is
> where you need a separate, independent DF beacon on the flight string that
> transmits a steady signal for 15 to 30 seconds every minute or so, with a
> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
> rely on some DFing if the landing site is way out in the boonies. By
> "independent" I mean a completely separate payload that doesn't share
> power,
> radio, computer or antenna with your APRS beacon, since any of those can
> fail and bring both beacons down.
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> Please don't take any of these suggestions as criticism, Brenden. We're
> just
> trying to give you the benefit of some of the lessons that we've learned
> the
> hard way, and we sincerely hope that your next flight results in a quick
> recovery and some great in-flight pix. As a science fair judge myself, it's
> my opinion that if you present your flight and its results in a half-way
> careful fashion, you'll be on your way to the regional and perhaps even the
> state fairs!
>
> GL es 73 de Mike W5VSI
> CTO EOSS
>
> On 8/3/2010 20:57, Brenden Geary wrote:
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> > ticket so I can fly balloons. Yes I have had my issues and have lost a
> bunch
> > of money in my last payload. Thanks to family and friends, some on this
> list,
> > I will fly again on Sept 4. I plan on taking down the High School science
> > fair, if they will let me in. I'm only entering the 8th grade but when I

> do
> > take down the Science fair with my data and photos I expect to see more
> > balloons next year. I started when I saw the two or three MIT students
> fly, so
> > no I do not think it is dying I think it is just starting to take off.
> >
> > I live in Southern California and trust me I can see the congestion on
> the
> > APRS network. I thought I was being smart by trying to use a freq other
> than
> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
> > shouldn't do this because even if this freq is open in my area, it may
> not be
> > when I get to altitude when my signal will go for 100's of miles. I this
> bogus
> > info?
> >
> > What are your thoughts
> >
> > Brenden Geary
> > www.BrendenGeary.com
> > KJ6HVP
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> > --- On *Tue, 8/3/10, Jon Riley
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> wrote:
> >
> >
> > From: Jon Riley <aj0nr@...<http://mc/compose?to=aj0nr%40sbcglobal.net>
> >
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Tuesday, August 3, 2010, 6:59 PM
> >
> > For a hobby that seems to be dieing off,he as well as others should be
> > happy the frequency is being used.Last time I checked nobody OWNS a
> > frequency,we all get to use it.
> > Jon Riley
> > AJ0NR--Project Traveler
> >
> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com><ccccrnr@...>/*
> wrote:
> >
> >
> > From: ccccrnr@aim. com <ccccrnr@aim. com> <ccccrnr@...>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com
> > Date: Tuesday, August 3, 2010, 8:10 PM
> >
> > I have to respectfully disagree with most every thing said here.

> >
> > Here in Missouri there is little digi or i-gate network. and around St
> > Louis even with 1watt you very well might not get onto the internet
> > driving around.
> >
> > and most of the traffic is just weather beacons or digis balasting
> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> > about congestion or missing a packet.
> >
> > Also even in an area with a great Network like Kansas where GPSL was
> > this year, not everything gets in.
> > Not a signal packet after we got on the ground made it into the
> > network from a Fixed digi-igates, and we landed only a couple miles
> > outside of McPhearson. So normally nothing would have been heard once
> > we were on the ground, if it hadn't have been GPSL
> >
> > Also the more hardware you fly you increase cost, weight, and
> > batteries, you also decrease max altitude. Not to mention airtraffic
> > filing concerns, and impact load should you hit a house or car on the
> > ground.
> > There is also a responsibility to make sure you recover your gear and
> > not litter on other unsuspecting land owners.
> >
> > So levering the largely unused network out-there can make more sense
> > that saying throw another couple hundred dollars in the payload for
> > logging and forget it.
> >
> > Sincerely,
> > Carlton Corbitt
> > -.- .. ....- -. .... -.-
> >
> >
> >
> > -----Original Message-----
> > From: Zack Clobes <zclobes@gmail. com> <zclobes@...>
> > To: GPSL <GPSL@yahoogroups. com> <GPSL@yahoogroups.com>
> > Sent: Tue, Aug 3, 2010 1:28 pm
> > Subject: Re: [GPSL] APRS abuse
> >
> > That's what we've done in the past. We then transmit the detected peak
> > periodically via a telemetry string for the entire descent.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler .org <http://www.projecttraveler.org/>
> >
> >
> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore
<eam52@...<http://mc/compose?to=eam52%40cam.ac>.
> uk

> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:
> >
> > Or just log the gps on your flight computer. You'll have at least
> > 1hz altitude data that way, which is surely good enough- and
> > certainly well beyond vdop as mike says.
> >
> > Ed
> > CU Spaceflight
> >
> >
> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> > wrote:
> >
>> Hi Brendan,
>>
>> EOSS has recovered 155 of its 155 payload stings to date over
>> the past
>> 20 years. During the first 5 years or so, GPS was beyond our
>> reach, so
>> we relied strictly on 2m DF triangulation. The key here is to have
>> a tracking and recovery team deployed around the predicted
>> landing site
>> when the balloon launches.
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>> Since then, we were one of the first groups to fly a GPS-based
>> APRS beacon.
>> On that first flight, we ran on 144.39, and ended up crashing
>> the KPC-3 due
>> to the excessive amount of traffic that it heard at altitude. So
>> we've moved
>> back down to 144.34 and arrange for some home-based I-gates to
>> get us into
>> the "infrastructure" on every flight. It's no big deal. In fact,
>> on most
>> flights, one of our trackers has to do no more than tune his
>> home xcvr down
>> 50 kHz before he leaves home.
>>
>> Our APRS beacons have never run over 350 mW xmit power, and
>> although we beacon
>> GGA every 30 sec for our own flights, we can back off to 60 sec
>> for shared
>> freqs like at GPSL. This power level yields solid data out past
>> 100 miles
>> downrange at altitude (Line of sight is a magic thing), and
>> further confers
>> the benefit of extended operational life from a smaller, lighter
>> battery.
>>

> >> Although I can understand wanting to know your peak altitude as
> >> precisely
> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
> >> ft or 50m
> >> every 10 sec. That's less than the VDOP of your GPS reading -
> >> sort of like
> >> measuring with a micrometer and marking with chalk. Further, the
> >> only reason
> >> I can think of to record peak altitude that precisely would be
> >> if you were
> >> attempting to beat the current ARHAB record of over 128 K'. And
> >> if you're
> >> hauling up enough batteries to support a 10W xmtr beaconing
> >> every 10 sec,
> >> fugeddaboudit!
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> >> Further, one can get a pretty good estimate of one's actual peak
> >> altitude
> >> by by finding the intersection of the ascent and descent
> >> regression lines
> >> taken from the data just before and after burst. It's not
> >> guesswork - just
> >> math.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 8/2/2010 23:11, Brenden Geary wrote:
> >> >
> >> >
> >> > Al,
> >> >
> >> > sorry I hit send by mistake...
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
> >> also have a big
> >> > dad ;-) I have flown 3 balloon flights and I have used
> >> Wide1-1, Wide2-1 on
> >> > each flight. On each flight I was using a MT 8000 FA and every
> >> flight had
> >> > there own problems but on the last flight I have not recovered
> >> at all. I took
> >> > and passed my ham tech just so I can fly balloons, I really
> >> didn't have any
> >> > interest in talking on the radio... this is changing slowly.
> >> So at first I
> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
> >> another random
> >> > freq which I would monitor as a backup. I was told that the
> >> ham community
> >> > would hang me for such a thing. If some is good more is

> >> better... OK so I do
> >> > understand that every 10 seconds is crazy but I want concreat
> >> proof of the
> >> > highest my balloon went, if you ping every minute or two then
> >> you have to
> >> > guess... right? I can assure you that in my case it was
> >> ignorance not ego.
> >> > APRS is somewhat of an art or blackmajac until you get into
> >> it. I think emails
> >> > like yours will help bring awareness to the issue.
> >> >
> >> > Brenden Geary
> >> > KJ6HVP
> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
> >> <http://www.brendengeary.com/>
> >> >
> >> > --- On *Mon, 8/2/10, Brenden Geary /<
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
> >bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Brenden Geary <
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
> >bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
> >> > Subject: Re: [GPSL] APRS abuse
> >> > To:
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com
> >GPSL@yahoogroups.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
> >> > Date: Monday, August 2, 2010, 9:56 PM
> >> >
> >> > Al,
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad but I
> >> have flown 3
> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
> >> flight. On each
> >> > flight I was using a MT 8000 FA and every flight had there own
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> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>
> k9si@... <http://mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Al Wolfe <
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>
> k9si@... <http://mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
> >> > Subject: [GPSL] APRS abuse
> >> > To: GPSL@yahoogroups. com
> >> > Date: Monday, August 2, 2010, 10:12 AM
> >> >
> >> > I'm a veteran of several balloon chases dating back to the
> >> Wintrax days
> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
> >> and APRS in
> >> > tracking balloons. I have also seen remarkable growth in the
> >> abuse of the
> >> > APRS system in tracking balloons and don't know whether it is
> >> > ignorance or
> >> > egocentricalism.
> >> >
> >> > There have been several balloons lately aloft here in the
> >> Midwest with a
> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> >> useful near the
> >> > ground, it has no place while at any altitude. This is a very
> >> selfish
> >> > path!
> >> > It can cause every properly configured APRS station in an area
> >> of over
> >> > 100,000 square mile to repeat the balloon packets. While no
> >> path at all
> >> > would likely be fine, a path of Wide2-1 would probably not be
> >> considered
> >> > abusive. This would only fire off the digis.
> >> >
> >> > As I said a path with 1-x can certainly be useful near the
> >> ground when
> >> > trying to find a downed package. The Tiny Trak can change
> >> paths with a
> >> > simple contact closure. A simple anaroid or pressure switch
> >> would be all
> >> > that's needed to change to a less abusive path at some fairly low

> >> > altitude.
> >> > Or some simple telecommand system could be used.
> >> >
> >> > The APRS system has only a limited capacity and is shared by
> >> all the
> >> > users. Ten or twelve years ago it would take weeks to
> >> accumulate 300
> >> > different stations in the log here. Now it often takes only a
> >> couple of
> >> > hours to see that many. In many areas the digis are in nearly
> >> constant
> >> > use.
> >> > Eliminating the Wide1-1 balloon packets would certainly cut
> >> out some
> >> > of the
> >> > clamor.
> >> >
> >> > Some have argued that balloons should use another frequency
> >> than 144.39.
> >> > However, the infrastucture exists on 39 so it makes sense to
> >> use it. Just
> >> > don't abuse it.
> >> >
> >> > 73,
> >> > Al, K9SI
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >>
> >> --
> >> Mike Manes
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com
> >mrmanes@gmail.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
> >> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >
> >
> >
> >
> >
> >
> >
> --
> Mike Manes mrmanes@... <http://mc/compose?to=mrmanes%40gmail.com>Tel: 303-979-4899

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>
>
>

7956. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 01:31:30 UTC
From: Sheri Barton Trbovich
Topic: 7915 Message: 7956

I like Zack!

Sent from Sheri and Ian's iPad.

On Aug 4, 2010, at 7:25 PM, Zack Clobes <zclobes@...> wrote:

> I always thought half the fun was trying to beat the payload to the site of impact!
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Wed, Aug 4, 2010 at 8:22 PM, Joe <nss@...> wrote:
> Brendon.
>
> Here at Near Space Sciences, we have people down range also waiting for the payload to come to them. To the predicted landing site. The last dozen flights of so every flight has been watched come down under the parachute. Their goal is to actually catch one. They haven't done that yet but have come withinn 10 yards of doing it. he was sooo mad! he he he. but down range in the winter.
>
> But in the summer months especially during turnaround months. Most of our chase crew are at tha launch site to watch it leave. There is plenty of time to get into the landing area when it's not that far away.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/4/2010 3:08 PM, Brenden Geary wrote:
>>
>> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with open arms. They tried to put a link to my site on the home page but it's a dead link. I am trying to help them out but I think they are a little worried about a kid working on their site. I usually have a large group for my launch and nobody in the landing zone, everyone wants to watch it take off. Having a group in the predicted landing site is a great idea, I will see if I can get some people to monitor the predicted landing site. I didn't take any of your suggestions as criticism, I am on this list just soaking up the knowledge. As far as presenting my results in a half-way careful fashion, here are my ideas:
>> Show the predicted flight path vs Actual flight path
>> Display Boyles law which and explain why it makes the balloon pop

>> Graph Time vs Barometric Pressure
>> Graph Time vs humidity
>> Graph Time vs Temp inside and outside the payload
>> and of course the eye candy pictures at altitude.
>>
>> What do you think of my project? Anyone please feel free let me know what you think...
its all good.
>>
>> Brenden
>> KJ6HVP
>>
>>
>>
>> --- On Wed, 8/4/10, Mike Manes <mrmanes@...> wrote:
>>
>> From: Mike Manes <mrmanes@...>
>> Subject: Re: [GPSL] APRS abuse
>> To: GPSL@yahoogroups.com
>> Cc: "Brenden Geary" <bjgeary@...>
>> Date: Wednesday, August 4, 2010, 11:42 AM
>>
>>
>> Hi Brendan,
>>
>> I don't think that either ham radio or ARHAB is dying off. Many new hams
>> get their tickets in order to enjoy perhaps a small sliver of the ham
>> radio hobby, such as ARES or ARHAB, and later discover more and more of the
>> vast array of activities offered by the hobby, such as DXing, microwaves,
>> ARDF, etc. I'm sure that if you were to join up with a ham club in your
>> area, you'd have a chance to see what I mean.
>>
>> EOSS actually sprung forth from a ham club called Western Vision Network,
>> a Denver-area group of hams who specialized in ATV (amateur television). A
>> few of them, inspired by Bill Brown's pioneering work, decided to fly an
>> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
>> WNV-1, but WVN died off years ago.
>>
>> You're right about ARHAB not dying off - if anything, it's growing like Topsy!
>> 20 years ago, there were just a handful of balloon groups in the US, and
>> none overseas. Today, there at least that many coming into the fold every few
>> months!
>>
>> By the way, I may have hinted in an earlier response at one of EOSS's secrets
>> to its recovery rate: have a tracking and recovery team already deployed when
>> the balloon launches. Although ARHAB can be a "one man game", it's a lot more
>> fun, and less costly, if you gather a team to work with you. Which points
>> back to my earlier point about joining a ham club. I assure you that a young
>> fellow such as yourself will be welcomed with open arms by some of those
>> old timers who got their first tickets about your age - but back in the vacuum
>> tube era.

>>
>> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
>> you?
>>
>> You should know that relying strictly on the APRS infrastructure on 144.39
>> is no guarantee of a successful recovery. Once the payload string descends
>> below the radio horizon of the nearest digi or I-gate, you're out of the
>> system, and you'd better have a closer tracking and recovery station that
>> can hear you beacons. Quite often, although the APRS packet signal can be
>> heard from a payload on the ground, it's too weak and noisy to decode. ANd
>> the packet bursts are too brief to allow for a decent DF bearing. This is
>> where you need a separate, independent DF beacon on the flight string that
>> transmits a steady signal for 15 to 30 seconds every minute or so, with a
>> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
>> rely on some DFing if the landing site is way out in the boonies. By
>> "independent" I mean a completely separate payload that doesn't share power,
>> radio, computer or antenna with your APRS beacon, since any of those can
>> fail and bring both beacons down.
>>
>> Please don't take any of these suggestions as criticism, Brenden. We're just
>> trying to give you the benefit of some of the lessons that we've learned the
>> hard way, and we sincerely hope that your next flight results in a quick
>> recovery and some great in-flight pix. As a science fair judge myself, it's
>> my opinion that if you present your flight and its results in a half-way
>> careful fashion, you'll be on your way to the regional and perhaps even the
>> state fairs!
>>
>> GL es 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 8/3/2010 20:57, Brenden Geary wrote:
>> >
>> >
>> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
>> > ticket so I can fly balloons. Yes I have had my issues and have lost a bunch
>> > of money in my last payload. Thanks to family and friends, some on this list,
>> > I will fly again on Sept 4. I plan on taking down the High School science
>> > fair, if they will let me in. I'm only entering the 8th grade but when I do
>> > take down the Science fair with my data and photos I expect to see more
>> > balloons next year. I started when I saw the two or three MIT students fly, so
>> > no I do not think it is dying I think it is just starting to take off.
>> >
>> > I live in Southern California and trust me I can see the congestion on the
>> > APRS network. I thought I was being smart by trying to use a freq other than
>> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
>> > shouldn't do this because even if this freq is open in my area, it may not be
>> > when I get to altitude when my signal will go for 100's of miles. I this bogus
>> > info?
>> >
>> > What are your thoughts

>> >
>> > Brenden Geary
>> > www.BrendenGeary.com
>> > KJ6HVP
>> >
>> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@sbcglobal.net>/* wrote:
>> >
>> >
>> > From: Jon Riley <aj0nr@...>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups.com
>> > Date: Tuesday, August 3, 2010, 6:59 PM
>> >
>> > For a hobby that seems to be dieing off,he as well as others should be
>> > happy the frequency is being used.Last time I checked nobody OWNS a
>> > frequency,we all get to use it.
>> > Jon Riley
>> > AJ0NR--Project Traveler
>> >
>> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
>> >
>> >
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>> > Or just log the gps on your flight computer. You'll have at least
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>> >> the "infrastructure" on every flight. It's no big deal. In fact,
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>> >> home xcvr down
>> >> 50 kHz before he leaves home.
>> >>
>> >> Our APRS beacons have never run over 350 mW xmit power, and
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>> >> > would hang me for such a thing. If some is good more is
>> >> better... OK so I do
>> >> > understand that every 10 seconds is crazy but I want concreat
>> >> proof of the
>> >> > highest my balloon went, if you ping every minute or two then
>> >> you have to
>> >> > guess... right? I can assure you that in my case it was
>> >> ignorance not ego.
>> >> > APRS is somewhat of an art or blackmajac until you get into
>> >> it. I think emails
>> >> > like yours will help bring awareness to the issue.
>> >> >
>> >> > Brenden Geary
>> >> > KJ6HVP
>> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
>> >> <http://www.brendengeary.com/>
>> >> >
>> >> > --- On *Mon, 8/2/10, Brenden Geary /<
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
>> >> wrote:
>> >> >
>> >> >
>> >> > From: Brenden Geary <

>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
>> >> > Subject: Re: [GPSL] APRS abuse
>> >> > To:
>> >>
<http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>> >> > Date: Monday, August 2, 2010, 9:56 PM
>> >> >
>> >> > Al,
>> >> >
>> >> > I will be 14 in a few weeks so don't beat me up too bad but I
>> >> have flown 3
>> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
>> >> flight. On each
>> >> > flight I was using a MT 8000 FA and every flight had there own
>> >> problems
>> >> > but on the last flight I have not recovered at all. I took and
>> >> passed my
>> >> > ham tech just so I can fly balloons, I really didn't have any
>> >> interest in
>> >> > talking on the radio... this is changing slowly. So at first I
>> >> wanted to
>> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
>> >> >
>> >> > --- On *Mon, 8/2/10, Al Wolfe /<
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
>> >> wrote:
>> >> >
>> >> >
>> >> > From: Al Wolfe <
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@arrl.net>>
>> >> > Subject: [GPSL] APRS abuse
>> >> > To: GPSL@yahoogroups. com
>> >> > Date: Monday, August 2, 2010, 10:12 AM
>> >> >
>> >> > I'm a veteran of several balloon chases dating back to the
>> >> Wintrax days
>> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
>> >> and APRS in
>> >> > tracking balloons. I have also seen remarkable growth in the
>> >> abuse of the
>> >> > APRS system in tracking balloons and don't know whether it is
>> >> > ignorance or
>> >> > egocentricalism.
>> >> >

>> >> > There have been several balloons lately aloft here in the
>> >> Midwest with a
>> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
>> >> useful near the
>> >> > ground, it has no place while at any altitude. This is a very
>> >> selfish
>> >> > path!
>> >> > It can cause every properly configured APRS station in an area
>> >> of over
>> >> > 100,000 square mile to repeat the balloon packets. While no
>> >> path at all
>> >> > would likely be fine, a path of Wide2-1 would probably not be
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>> >> >
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>> >> ground when
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>> >> paths with a
>> >> > simple contact closure. A simple anaroid or pressure switch
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>> >> > altitude.
>> >> > Or some simple telecommand system could be used.
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>> >> > The APRS system has only a limited capacity and is shared by
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>> >> > different stations in the log here. Now it often takes only a
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>> >> > hours to see that many. In many areas the digis are in nearly
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>> >> > use.
>> >> > Eliminating the Wide1-1 balloon packets would certainly cut
>> >> out some
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>> >> > clamor.
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>> >> > Some have argued that balloons should use another frequency
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>> >> > However, the infrastucture exists on 39 so it makes sense to
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>> >> > don't abuse it.
>> >> >
>> >> > 73,
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>> >> >
>> >> >
>> >> >

>> >> >
>> >> >
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>> >>
>> >> --
>> >> Mike Manes
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@gmail.com>
>> >> Tel: 303-979-4899
>> >> "Things should be made as simple as possible, but not more so."
>> >> A. Einstein
>> >
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>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
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>
>

7957. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 01:35:42 UTC
From: Sheri Barton Trbovich
Topic: 7915 Message: 7957

Sorry, hit the send button too soon. I like Zack's comment, in our group there are some who think we should all wait until the payload lands before we go out. I disagree and like to chase.

Sheri, WB1SAR, HARBOR at Weber State Univ.

Sent from Sheri and Ian's iPad.

On Aug 4, 2010, at 7:25 PM, Zack Clobes <zclobes@...> wrote:

> I always thought half the fun was trying to beat the payload to the site of impact!
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Wed, Aug 4, 2010 at 8:22 PM, Joe <nss@...> wrote:
> Brendon.
>
> Here at Near Space Sciences, we have people down range also waiting for the payload to come to them. To the predicted landing site. The last dozen flights of so every flight has been watched come down under the parachute. Their goal is to actually catch one. They haven't done that yet but have come withinn 10 yards of doing it. he was sooo mad! he he he. but down range in the winter.
>
> But in the summer months especially during turnaround months. Most of our chase crew are at tha launch site to watch it leave. There is plenty of time to get into the landing area when it's not that far away.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/4/2010 3:08 PM, Brenden Geary wrote:
>>
>> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with open arms. They tried to put a link to my site on the home page but it's a dead link. I am trying to help them out but I think they are a little worried about a kid working on their site. I usually have a large group for my launch and nobody in the landing zone, everyone wants to watch it take off. Having a group in the predicted landing site is a great idea, I will see if I can get some people to monitor the predicted landing site. I didn't take any of your

suggestions as criticism, I am on this list just soaking up the knowledge. As far as presenting my results in a half-way careful fashion, here are my ideas:
>> Show the predicted flight path vs Actual flight path
>> Display Boyles law which and explain why it makes the balloon pop
>> Graph Time vs Barometric Pressure
>> Graph Time vs humidity
>> Graph Time vs Temp inside and outside the payload
>> and of course the eye candy pictures at altitude.
>>
>> What do you think of my project? Anyone please feel free let me know what you think... its all good.
>>
>> Brenden
>> KJ6HVP
>>
>>
>>
>> --- On Wed, 8/4/10, Mike Manes <mrmanes@...> wrote:
>>
>> From: Mike Manes <mrmanes@...>
>> Subject: Re: [GPSL] APRS abuse
>> To: GPSL@yahoogroups.com
>> Cc: "Brenden Geary" <bjgeary@...>
>> Date: Wednesday, August 4, 2010, 11:42 AM
>>
>>
>> Hi Brendan,
>>
>> I don't think that either ham radio or ARHAB is dying off. Many new hams
>> get their tickets in order to enjoy perhaps a small sliver of the ham
>> radio hobby, such as ARES or ARHAB, and later discover more and more of the
>> vast array of activities offered by the hobby, such as DXing, microwaves,
>> ARDF, etc. I'm sure that if you were to join up with a ham club in your
>> area, you'd have a chance to see what I mean.
>>
>> EOSS actually sprung forth from a ham club called Western Vision Network,
>> a Denver-area group of hams who specialized in ATV (amateur television). A
>> few of them, inspired by Bill Brown's pioneering work, decided to fly an
>> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
>> WNV-1, but WVN died off years ago.
>>
>> You're right about ARHAB not dying off - if anything, it's growing like Topsy!
>> 20 years ago, there were just a handful of balloon groups in the US, and
>> none overseas. Today, there at least that many coming into the fold every few
>> months!
>>
>> By the way, I may have hinted in an earlier response at one of EOSS's secrets
>> to its recovery rate: have a tracking and recovery team already deployed when
>> the balloon launches. Although ARHAB can be a "one man game", it's a lot more
>> fun, and less costly, if you gather a team to work with you. Which points
>> back to my earlier point about joining a ham club. I assure you that a young

>> fellow such as yourself will be welcomed with open arms by some of those
>> old timers who got their first tickets about your age - but back in the vacuum
>> tube era.
>>
>> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
>> you?
>>
>> You should know that relying strictly on the APRS infrastructure on 144.39
>> is no guarantee of a successful recovery. Once the payload string descends
>> below the radio horizon of the nearest digi or I-gate, you're out of the
>> system, and you'd better have a closer tracking and recovery station that
>> can hear you beacons. Quite often, although the APRS packet signal can be
>> heard from a payload on the ground, it's too weak and noisy to decode. ANd
>> the packet bursts are too brief to allow for a decent DF bearing. This is
>> where you need a separate, independent DF beacon on the flight string that
>> transmits a steady signal for 15 to 30 seconds every minute or so, with a
>> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
>> rely on some DFing if the landing site is way out in the boonies. By
>> "independent" I mean a completely separate payload that doesn't share power,
>> radio, computer or antenna with your APRS beacon, since any of those can
>> fail and bring both beacons down.
>>
>> Please don't take any of these suggestions as criticism, Brenden. We're just
>> trying to give you the benefit of some of the lessons that we've learned the
>> hard way, and we sincerely hope that your next flight results in a quick
>> recovery and some great in-flight pix. As a science fair judge myself, it's
>> my opinion that if you present your flight and its results in a half-way
>> careful fashion, you'll be on your way to the regional and perhaps even the
>> state fairs!
>>
>> GL es 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 8/3/2010 20:57, Brenden Geary wrote:
>> >
>> >
>> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
>> > ticket so I can fly balloons. Yes I have had my issues and have lost a bunch
>> > of money in my last payload. Thanks to family and friends, some on this list,
>> > I will fly again on Sept 4. I plan on taking down the High School science
>> > fair, if they will let me in. I'm only entering the 8th grade but when I do
>> > take down the Science fair with my data and photos I expect to see more
>> > balloons next year. I started when I saw the two or three MIT students fly, so
>> > no I do not think it is dying I think it is just starting to take off.
>> >
>> > I live in Southern California and trust me I can see the congestion on the
>> > APRS network. I thought I was being smart by trying to use a freq other than
>> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
>> > shouldn't do this because even if this freq is open in my area, it may not be
>> > when I get to altitude when my signal will go for 100's of miles. I this bogus

>> > info?
>> >
>> > What are your thoughts
>> >
>> > Brenden Geary
>> > www.BrendenGeary.com
>> > KJ6HVP
>> >
>> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...>/* wrote:
>> >
>> >
>> > From: Jon Riley <aj0nr@...>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups.com
>> > Date: Tuesday, August 3, 2010, 6:59 PM
>> >
>> > For a hobby that seems to be dieing off,he as well as others should be
>> > happy the frequency is being used.Last time I checked nobody OWNS a
>> > frequency,we all get to use it.
>> > Jon Riley
>> > AJ0NR--Project Traveler
>> >
>> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
>> >
>> >
>> > From: ccccrnr@aim. com <ccccrnr@aim. com>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups. com
>> > Date: Tuesday, August 3, 2010, 8:10 PM
>> >
>> > I have to respectfully disagree with most every thing said here.
>> >
>> > Here in Missouri there is little digi or i-gate network. and around St
>> > Louis even with 1watt you very well might not get onto the internet
>> > driving around.
>> >
>> > and most of the traffic is just weather beacons or digis balasting
>> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
>> > about congestion or missing a packet.
>> >
>> > Also even in an area with a great Network like Kansas where GPSL was
>> > this year, not everything gets in.
>> > Not a signal packet after we got on the ground made it into the
>> > network from a Fixed digi-igates, and we landed only a couple miles
>> > outside of McPhearson. So normally nothing would have been heard once
>> > we were on the ground, if it hadn't have been GPSL
>> >
>> > Also the more hardware you fly you increase cost, weight, and
>> > batteries, you also decrease max altitude. Not to mention airtraffic
>> > filing concerns, and impact load should you hit a house or car on the

>> > ground.
>> > There is also a responsibility to make sure you recover your gear and
>> > not litter on other unsuspecting land owners.
>> >
>> > So levering the largely unused network out-there can make more sense
>> > that saying throw another couple hundred dollars in the payload for
>> > logging and forget it.
>> >
>> > Sincerely,
>> > Carlton Corbitt
>> > -.- .. ....- -. .... -.-
>> >
>> >
>> >
>> > -----Original Message-----
>> > From: Zack Clobes <zclobes@gmail. com>
>> > To: GPSL <GPSL@yahoogroups. com>
>> > Sent: Tue, Aug 3, 2010 1:28 pm
>> > Subject: Re: [GPSL] APRS abuse
>> >
>> > That's what we've done in the past. We then transmit the detected peak
>> > periodically via a telemetry string for the entire descent.
>> >
>> > Zack Clobes, W0ZC
>> > Project: Traveler
>> > www.projecttraveler .org <http://www.projecttraveler.org/>
>> >
>> >
>> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@cam.ac. uk
>> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@....uk>> wrote:
>> >
>> > Or just log the gps on your flight computer. You'll have at least
>> > 1hz altitude data that way, which is surely good enough- and
>> > certainly well beyond vdop as mike says.
>> >
>> > Ed
>> > CU Spaceflight
>> >
>> >
>> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
>> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
>> > wrote:
>> >
>> >> Hi Brendan,
>> >>
>> >> EOSS has recovered 155 of its 155 payload stings to date over
>> >> the past
>> >> 20 years. During the first 5 years or so, GPS was beyond our
>> >> reach, so
>> >> we relied strictly on 2m DF triangulation. The key here is to have

>> >> a tracking and recovery team deployed around the predicted
>> >> landing site
>> >> when the balloon launches.
>> >>
>> >> Since then, we were one of the first groups to fly a GPS-based
>> >> APRS beacon.
>> >> On that first flight, we ran on 144.39, and ended up crashing
>> >> the KPC-3 due
>> >> to the excessive amount of traffic that it heard at altitude. So
>> >> we've moved
>> >> back down to 144.34 and arrange for some home-based I-gates to
>> >> get us into
>> >> the "infrastructure" on every flight. It's no big deal. In fact,
>> >> on most
>> >> flights, one of our trackers has to do no more than tune his
>> >> home xcvr down
>> >> 50 kHz before he leaves home.
>> >>
>> >> Our APRS beacons have never run over 350 mW xmit power, and
>> >> although we beacon
>> >> GGA every 30 sec for our own flights, we can back off to 60 sec
>> >> for shared
>> >> freqs like at GPSL. This power level yields solid data out past
>> >> 100 miles
>> >> downrange at altitude (Line of sight is a magic thing), and
>> >> further confers
>> >> the benefit of extended operational life from a smaller, lighter
>> >> battery.
>> >>
>> >> Although I can understand wanting to know your peak altitude as
>> >> precisely
>> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
>> >> ft or 50m
>> >> every 10 sec. That's less than the VDOP of your GPS reading -
>> >> sort of like
>> >> measuring with a micrometer and marking with chalk. Further, the
>> >> only reason
>> >> I can think of to record peak altitude that precisely would be
>> >> if you were
>> >> attempting to beat the current ARHAB record of over 128 K'. And
>> >> if you're
>> >> hauling up enough batteries to support a 10W xmtr beaconing
>> >> every 10 sec,
>> >> fugeddaboudit!
>> >>
>> >> Further, one can get a pretty good estimate of one's actual peak
>> >> altitude
>> >> by by finding the intersection of the ascent and descent
>> >> regression lines
>> >> taken from the data just before and after burst. It's not

>> >> guesswork - just
>> >> math.
>> >>
>> >> 73 de Mike W5VSI
>> >>
>> >> On 8/2/2010 23:11, Brenden Geary wrote:
>> >> >
>> >> >
>> >> > Al,
>> >> >
>> >> > sorry I hit send by mistake...
>> >> >
>> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
>> >> also have a big
>> >> > dad ;-) I have flown 3 balloon flights and I have used
>> >> Wide1-1, Wide2-1 on
>> >> > each flight. On each flight I was using a MT 8000 FA and every
>> >> flight had
>> >> > there own problems but on the last flight I have not recovered
>> >> at all. I took
>> >> > and passed my ham tech just so I can fly balloons, I really
>> >> didn't have any
>> >> > interest in talking on the radio... this is changing slowly.
>> >> So at first I
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>> >> wrote:

>> >> >
>> >> >
>> >> > From: Brenden Geary <
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
>> >> > Subject: Re: [GPSL] APRS abuse
>> >> > To:
>> >>
<http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
>> >> com
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>> >> wrote:
>> >> >
>> >> >
>> >> > From: Al Wolfe <
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@arrl.net
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...t>>
>> >> > Subject: [GPSL] APRS abuse
>> >> > To: GPSL@yahoogroups. com
>> >> > Date: Monday, August 2, 2010, 10:12 AM
>> >> >
>> >> > I'm a veteran of several balloon chases dating back to the
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>> >> --
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>>
>> --
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>>
>
>

7958. GPSL Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 02:23:22 UTC
From: Zack Clobes
Topic: 198 Message: 7958

I've posted the photos for my website.

http://picasaweb.google.com/projecttraveler/GPSL2010HutchinsonKS#

I'm working with Keith to try to get the PPT's and the WebEx recordings posted yet this week.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

7959. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 02:29:18 UTC
From: Mike Manes
Topic: 7915 Message: 7959

Except when it's 100 miles downrange and accessible only via dirt (or mud) roads :=(.

On 8/4/2010 19:25, Zack Clobes wrote:
>
>
> I always thought half the fun was trying to beat the payload to the site of
> impact!
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Wed, Aug 4, 2010 at 8:22 PM, Joe <nss@... <mailto:nss@...>> wrote:
>
> Brendon.
>
> Here at Near Space Sciences, we have people down range also waiting for
> the payload to come to them. To the predicted landing site. The last
> dozen flights of so every flight has been watched come down under the
> parachute. Their goal is to actually catch one. They haven't done that
> yet but have come withinn 10 yards of doing it. he was sooo mad! he he
> he. but down range in the winter.
>
> But in the summer months especially during turnaround months. Most of our
> chase crew are at tha launch site to watch it leave. There is plenty of
> time to get into the landing area when it's not that far away.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/4/2010 3:08 PM, Brenden Geary wrote:
>> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with
>> open arms. They tried to put a link to my site on the home page but
>> it's a dead link. I am trying to help them out but I think they are a
>> little worried about a kid working on their site. I usually have a
>> large group for my launch and nobody in the landing zone, everyone wants
>> to watch it take off. Having a group in the predicted landing site is a
>> great idea, I will see if I can get some people to monitor the predicted
>> landing site. I didn't take any of your suggestions as criticism, I am

>> on this list just soaking up the knowledge. As far as presenting my
>> results in a half-way careful fashion, here are my ideas:
>> Show the predicted flight path vs Actual flight path
>> Display Boyles law which and explain why it makes the balloon pop
>> Graph Time vs Barometric Pressure
>> Graph Time vs humidity* *
>> Graph Time vs Temp inside and outside the payload
>> and of course the eye candy pictures at altitude.
>>
>> What do you think of my project? Anyone please feel free let me know
>> what you think... its all good.
>>
>> Brenden
>> KJ6HVP
>>
>>
>>
>> --- On *Wed, 8/4/10, Mike Manes /<mrmanes@...>
>> <mailto:mrmanes@...>/* wrote:
>>
>>
>> From: Mike Manes <mrmanes@...> <mailto:mrmanes@...>
>> Subject: Re: [GPSL] APRS abuse
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Cc: "Brenden Geary" <bjgeary@...> <mailto:bjgeary@...>
>> Date: Wednesday, August 4, 2010, 11:42 AM
>>
>> Hi Brendan,
>>
>> I don't think that either ham radio or ARHAB is dying off. Many new hams
>> get their tickets in order to enjoy perhaps a small sliver of the ham
>> radio hobby, such as ARES or ARHAB, and later discover more and more
>> of the
>> vast array of activities offered by the hobby, such as DXing,
>> microwaves,
>> ARDF, etc. I'm sure that if you were to join up with a ham club in your
>> area, you'd have a chance to see what I mean.
>>
>> EOSS actually sprung forth from a ham club called Western Vision
>> Network,
>> a Denver-area group of hams who specialized in ATV (amateur
>> television). A
>> few of them, inspired by Bill Brown's pioneering work, decided to fly an
>> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
>> WNV-1, but WVN died off years ago.
>>
>> You're right about ARHAB not dying off - if anything, it's growing
>> like Topsy!
>> 20 years ago, there were just a handful of balloon groups in the US,
>> and

>> none overseas. Today, there at least that many coming into the fold
>> every few
>> months!
>>
>> By the way, I may have hinted in an earlier response at one of
>> EOSS's secrets
>> to its recovery rate: have a tracking and recovery team already
>> deployed when
>> the balloon launches. Although ARHAB can be a "one man game", it's a
>> lot more
>> fun, and less costly, if you gather a team to work with you. Which
>> points
>> back to my earlier point about joining a ham club. I assure you that
>> a young
>> fellow such as yourself will be welcomed with open arms by some of those
>> old timers who got their first tickets about your age - but back in
>> the vacuum
>> tube era.
>>
>> I think you typoed "154.39" in your earlier email - you meant 145.39
>> didn't
>> you?
>>
>> You should know that relying strictly on the APRS infrastructure on
>> 144.39
>> is no guarantee of a successful recovery. Once the payload string
>> descends
>> below the radio horizon of the nearest digi or I-gate, you're out of the
>> system, and you'd better have a closer tracking and recovery station
>> that
>> can hear you beacons. Quite often, although the APRS packet signal
>> can be
>> heard from a payload on the ground, it's too weak and noisy to
>> decode. ANd
>> the packet bursts are too brief to allow for a decent DF bearing.
>> This is
>> where you need a separate, independent DF beacon on the flight
>> string that
>> transmits a steady signal for 15 to 30 seconds every minute or so,
>> with a
>> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
>> rely on some DFing if the landing site is way out in the boonies. By
>> "independent" I mean a completely separate payload that doesn't
>> share power,
>> radio, computer or antenna with your APRS beacon, since any of those can
>> fail and bring both beacons down.
>>
>> Please don't take any of these suggestions as criticism, Brenden.
>> We're just
>> trying to give you the benefit of some of the lessons that we've

>> learned the
>> hard way, and we sincerely hope that your next flight results in a quick
>> recovery and some great in-flight pix. As a science fair judge
>> myself, it's
>> my opinion that if you present your flight and its results in a half-way
>> careful fashion, you'll be on your way to the regional and perhaps
>> even the
>> state fairs!
>>
>> GL es 73 de Mike W5VSI
>> CTO EOSS
>>
>> On 8/3/2010 20:57, Brenden Geary wrote:
>> >
>> >
>> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got
>> my ham
>> > ticket so I can fly balloons. Yes I have had my issues and have
>> lost a bunch
>> > of money in my last payload. Thanks to family and friends, some on
>> this list,
>> > I will fly again on Sept 4. I plan on taking down the High School
>> science
>> > fair, if they will let me in. I'm only entering the 8th grade but
>> when I do
>> > take down the Science fair with my data and photos I expect to see
>> more
>> > balloons next year. I started when I saw the two or three MIT
>> students fly, so
>> > no I do not think it is dying I think it is just starting to take off.
>> >
>> > I live in Southern California and trust me I can see the
>> congestion on the
>> > APRS network. I thought I was being smart by trying to use a freq
>> other than
>> > 144.39 like 154.39 and use my D700 to track it myself. I was told
>> that I
>> > shouldn't do this because even if this freq is open in my area, it
>> may not be
>> > when I get to altitude when my signal will go for 100's of miles.
>> I this bogus
>> > info?
>> >
>> > What are your thoughts
>> >
>> > Brenden Geary
>> > www.BrendenGeary.com <http://www.BrendenGeary.com>
>> > KJ6HVP
>> >
>> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...

>> <http://mc/compose?to=aj0nr%40sbcglobal.net>>/* wrote:
>> >
>> >
>> > From: Jon Riley <aj0nr@...
>> <http://mc/compose?to=aj0nr%40sbcglobal.net>>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>
>> > Date: Tuesday, August 3, 2010, 6:59 PM
>> >
>> > For a hobby that seems to be dieing off,he as well as others should be
>> > happy the frequency is being used.Last time I checked nobody OWNS a
>> > frequency,we all get to use it.
>> > Jon Riley
>> > AJ0NR--Project Traveler
>> >
>> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>
>> <mailto:ccccrnr@...>/* wrote:
>> >
>> >
>> > From: ccccrnr@aim. com <ccccrnr@aim. com> <mailto:ccccrnr@...>
>> > Subject: Re: [GPSL] APRS abuse
>> > To: GPSL@yahoogroups. com
>> > Date: Tuesday, August 3, 2010, 8:10 PM
>> >
>> > I have to respectfully disagree with most every thing said here.
>> >
>> > Here in Missouri there is little digi or i-gate network. and around St
>> > Louis even with 1watt you very well might not get onto the internet
>> > driving around.
>> >
>> > and most of the traffic is just weather beacons or digis balasting
>> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
>> > about congestion or missing a packet.
>> >
>> > Also even in an area with a great Network like Kansas where GPSL was
>> > this year, not everything gets in.
>> > Not a signal packet after we got on the ground made it into the
>> > network from a Fixed digi-igates, and we landed only a couple miles
>> > outside of McPhearson. So normally nothing would have been heard once
>> > we were on the ground, if it hadn't have been GPSL
>> >
>> > Also the more hardware you fly you increase cost, weight, and
>> > batteries, you also decrease max altitude. Not to mention airtraffic
>> > filing concerns, and impact load should you hit a house or car on the
>> > ground.
>> > There is also a responsibility to make sure you recover your gear and
>> > not litter on other unsuspecting land owners.
>> >
>> > So levering the largely unused network out-there can make more sense
>> > that saying throw another couple hundred dollars in the payload for

>> > logging and forget it.
>> >
>> > Sincerely,
>> > Carlton Corbitt
>> > -.- .. ....- -. .... -.-
>> >
>> >
>> >
>> > -----Original Message-----
>> > From: Zack Clobes <zclobes@gmail. com> <mailto:zclobes@...>
>> > To: GPSL <GPSL@yahoogroups. com> <mailto:GPSL@yahoogroups.com>
>> > Sent: Tue, Aug 3, 2010 1:28 pm
>> > Subject: Re: [GPSL] APRS abuse
>> >
>> > That's what we've done in the past. We then transmit the detected peak
>> > periodically via a telemetry string for the entire descent.
>> >
>> > Zack Clobes, W0ZC
>> > Project: Traveler
>> > www.projecttraveler <http://www.projecttraveler> .org
>> <http://www.projecttraveler.org/>
>> >
>> >
>> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@...
>> <http://mc/compose?to=eam52%40cam.ac>. uk
>> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>> wrote:
>> >
>> > Or just log the gps on your flight computer. You'll have at least
>> > 1hz altitude data that way, which is surely good enough- and
>> > certainly well beyond vdop as mike says.
>> >
>> > Ed
>> > CU Spaceflight
>> >
>> >
>> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
>> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
>> > wrote:
>> >
>> >> Hi Brendan,
>> >>
>> >> EOSS has recovered 155 of its 155 payload stings to date over
>> >> the past
>> >> 20 years. During the first 5 years or so, GPS was beyond our
>> >> reach, so
>> >> we relied strictly on 2m DF triangulation. The key here is to have
>> >> a tracking and recovery team deployed around the predicted
>> >> landing site
>> >> when the balloon launches.
>> >>

>> >> Since then, we were one of the first groups to fly a GPS-based
>> >> APRS beacon.
>> >> On that first flight, we ran on 144.39, and ended up crashing
>> >> the KPC-3 due
>> >> to the excessive amount of traffic that it heard at altitude. So
>> >> we've moved
>> >> back down to 144.34 and arrange for some home-based I-gates to
>> >> get us into
>> >> the "infrastructure" on every flight. It's no big deal. In fact,
>> >> on most
>> >> flights, one of our trackers has to do no more than tune his
>> >> home xcvr down
>> >> 50 kHz before he leaves home.
>> >>
>> >> Our APRS beacons have never run over 350 mW xmit power, and
>> >> although we beacon
>> >> GGA every 30 sec for our own flights, we can back off to 60 sec
>> >> for shared
>> >> freqs like at GPSL. This power level yields solid data out past
>> >> 100 miles
>> >> downrange at altitude (Line of sight is a magic thing), and
>> >> further confers
>> >> the benefit of extended operational life from a smaller, lighter
>> >> battery.
>> >>
>> >> Although I can understand wanting to know your peak altitude as
>> >> precisely
>> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
>> >> ft or 50m
>> >> every 10 sec. That's less than the VDOP of your GPS reading -
>> >> sort of like
>> >> measuring with a micrometer and marking with chalk. Further, the
>> >> only reason
>> >> I can think of to record peak altitude that precisely would be
>> >> if you were
>> >> attempting to beat the current ARHAB record of over 128 K'. And
>> >> if you're
>> >> hauling up enough batteries to support a 10W xmtr beaconing
>> >> every 10 sec,
>> >> fugeddaboudit!
>> >>
>> >> Further, one can get a pretty good estimate of one's actual peak
>> >> altitude
>> >> by by finding the intersection of the ascent and descent
>> >> regression lines
>> >> taken from the data just before and after burst. It's not
>> >> guesswork - just
>> >> math.
>> >>
>> >> 73 de Mike W5VSI

>> >>
>> >> On 8/2/2010 23:11, Brenden Geary wrote:
>> >> >
>> >> >
>> >> > Al,
>> >> >
>> >> > sorry I hit send by mistake...
>> >> >
>> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
>> >> also have a big
>> >> > dad ;-) I have flown 3 balloon flights and I have used
>> >> Wide1-1, Wide2-1 on
>> >> > each flight. On each flight I was using a MT 8000 FA and every
>> >> flight had
>> >> > there own problems but on the last flight I have not recovered
>> >> at all. I took
>> >> > and passed my ham tech just so I can fly balloons, I really
>> >> didn't have any
>> >> > interest in talking on the radio... this is changing slowly.
>> >> So at first I
>> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
>> >> another random
>> >> > freq which I would monitor as a backup. I was told that the
>> >> ham community
>> >> > would hang me for such a thing. If some is good more is
>> >> better... OK so I do
>> >> > understand that every 10 seconds is crazy but I want concreat
>> >> proof of the
>> >> > highest my balloon went, if you ping every minute or two then
>> >> you have to
>> >> > guess... right? I can assure you that in my case it was
>> >> ignorance not ego.
>> >> > APRS is somewhat of an art or blackmajac until you get into
>> >> it. I think emails
>> >> > like yours will help bring awareness to the issue.
>> >> >
>> >> > Brenden Geary
>> >> > KJ6HVP
>> >> > <http://www.brendengeary.com/>www.BrendenGeary
>> <http://www.BrendenGeary>. com
>> >> <http://www.brendengeary.com/>
>> >> >
>> >> > --- On *Mon, 8/2/10, Brenden Geary /<
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
>> >> wrote:
>> >> >
>> >> >

>> >> > From: Brenden Geary <
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
>> >> > Subject: Re: [GPSL] APRS abuse
>> >> > To:
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
>> >> > Date: Monday, August 2, 2010, 9:56 PM
>> >> >
>> >> > Al,
>> >> >
>> >> > I will be 14 in a few weeks so don't beat me up too bad but I
>> >> have flown 3
>> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
>> >> flight. On each
>> >> > flight I was using a MT 8000 FA and every flight had there own
>> >> problems
>> >> > but on the last flight I have not recovered at all. I took and
>> >> passed my
>> >> > ham tech just so I can fly balloons, I really didn't have any
>> >> interest in
>> >> > talking on the radio... this is changing slowly. So at first I
>> >> wanted to
>> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
>> >> >
>> >> > --- On *Mon, 8/2/10, Al Wolfe /<
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
>> <http://mc/compose?to=k9si%40arrl.net>
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
>> >> wrote:
>> >> >
>> >> >
>> >> > From: Al Wolfe <
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
>> <http://mc/compose?to=k9si%40arrl.net>
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
>> >> > Subject: [GPSL] APRS abuse
>> >> > To: GPSL@yahoogroups. com
>> >> > Date: Monday, August 2, 2010, 10:12 AM
>> >> >
>> >> > I'm a veteran of several balloon chases dating back to the
>> >> Wintrax days
>> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
>> >> and APRS in

>> >> > tracking balloons. I have also seen remarkable growth in the
>> >> abuse of the
>> >> > APRS system in tracking balloons and don't know whether it is
>> >> > ignorance or
>> >> > egocentricalism.
>> >> >
>> >> > There have been several balloons lately aloft here in the
>> >> Midwest with a
>> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
>> >> useful near the
>> >> > ground, it has no place while at any altitude. This is a very
>> >> selfish
>> >> > path!
>> >> > It can cause every properly configured APRS station in an area
>> >> of over
>> >> > 100,000 square mile to repeat the balloon packets. While no
>> >> path at all
>> >> > would likely be fine, a path of Wide2-1 would probably not be
>> >> considered
>> >> > abusive. This would only fire off the digis.
>> >> >
>> >> > As I said a path with 1-x can certainly be useful near the
>> >> ground when
>> >> > trying to find a downed package. The Tiny Trak can change
>> >> paths with a
>> >> > simple contact closure. A simple anaroid or pressure switch
>> >> would be all
>> >> > that's needed to change to a less abusive path at some fairly low
>> >> > altitude.
>> >> > Or some simple telecommand system could be used.
>> >> >
>> >> > The APRS system has only a limited capacity and is shared by
>> >> all the
>> >> > users. Ten or twelve years ago it would take weeks to
>> >> accumulate 300
>> >> > different stations in the log here. Now it often takes only a
>> >> couple of
>> >> > hours to see that many. In many areas the digis are in nearly
>> >> constant
>> >> > use.
>> >> > Eliminating the Wide1-1 balloon packets would certainly cut
>> >> out some
>> >> > of the
>> >> > clamor.
>> >> >
>> >> > Some have argued that balloons should use another frequency
>> >> than 144.39.
>> >> > However, the infrastucture exists on 39 so it makes sense to
>> >> use it. Just
>> >> > don't abuse it.

>> >> >
>> >> > 73,
>> >> > Al, K9SI
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >>
>> >> --
>> >> Mike Manes
>> >>
>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
>> >> com
>> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>
>> >> Tel: 303-979-4899
>> >> "Things should be made as simple as possible, but not more so."
>> >> A. Einstein
>> >
>> >
>> >
>> >
>> >
>> >
>>
>> --
>> Mike Manes mrmanes@...
>> <http://mc/compose?to=mrmanes%40gmail.com> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7960. Re: [GPSL] APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 02:38:20 UTC
From: Mike Manes
Topic: 7915 Message: 7960

Hi Sheri,

Well, next winter flight, let 'em be while you go fetch it back, and see if
they can find it.

Being on site during the landing also ensures just who will do the recovery.
On one ES-OS flight, some locals got there first and spirited it off to
their place in the nearby town. It was located only by the glint of sunlight
from the AOL CDs on the flight string passing between back yard fence pickets.
On another, the EOSS recovery team arrived moments after landing only to find
some citizens already over the fence.

If all else fails, be sure to include a "return to sender" label on the
payloads.

73 de Mike W5VSI

On 8/4/2010 19:35, Sheri Barton Trbovich wrote:
>
>
> Sorry, hit the send button too soon. I like Zack's comment, in our group there
> are some who think we should all wait until the payload lands before we go
> out. I disagree and like to chase.
>
> Sheri, WB1SAR, HARBOR at Weber State Univ.
>
> Sent from Sheri and Ian's iPad.
>
> On Aug 4, 2010, at 7:25 PM, Zack Clobes <zclobes@...
> <mailto:zclobes@...>> wrote:
>
>> I always thought half the fun was trying to beat the payload to the site of
>> impact!
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org <http://www.projecttraveler.org>
>>
>>
>> On Wed, Aug 4, 2010 at 8:22 PM, Joe < <mailto:nss@...>nss@...
>> <mailto:nss@...>> wrote:
>>
>> Brendon.
>>
>> Here at Near Space Sciences, we have people down range also waiting for
>> the payload to come to them. To the predicted landing site. The last

>> dozen flights of so every flight has been watched come down under the
>> parachute. Their goal is to actually catch one. They haven't done that
>> yet but have come withinn 10 yards of doing it. he was sooo mad! he he
>> he. but down range in the winter.
>>
>> But in the summer months especially during turnaround months. Most of
>> our chase crew are at tha launch site to watch it leave. There is plenty
>> of time to get into the landing area when it's not that far away.
>>
>> Joe WB9SBD
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> <http://www.idle-tyme.com>http://www.idle-tyme.com
>>
>> On 8/4/2010 3:08 PM, Brenden Geary wrote:
>>> I am in a ham club (<http://www.w6ier.org/>http://www.w6ier.org/) and
>>> yes I was welcomed with open arms. They tried to put a link to my site
>>> on the home page but it's a dead link. I am trying to help them out but
>>> I think they are a little worried about a kid working on their site. I
>>> usually have a large group for my launch and nobody in the landing
>>> zone, everyone wants to watch it take off. Having a group in the
>>> predicted landing site is a great idea, I will see if I can get some
>>> people to monitor the predicted landing site. I didn't take any of your
>>> suggestions as criticism, I am on this list just soaking up the
>>> knowledge. As far as presenting my results in a half-way careful
>>> fashion, here are my ideas:
>>> Show the predicted flight path vs Actual flight path
>>> Display Boyles law which and explain why it makes the balloon pop
>>> Graph Time vs Barometric Pressure
>>> Graph Time vs humidity* *
>>> Graph Time vs Temp inside and outside the payload
>>> and of course the eye candy pictures at altitude.
>>>
>>> What do you think of my project? Anyone please feel free let me know
>>> what you think... its all good.
>>>
>>> Brenden
>>> KJ6HVP
>>>
>>>
>>>
>>> --- On *Wed, 8/4/10, Mike Manes /<mrmanes@...>
>>> <mailto:mrmanes@...>/* wrote:
>>>
>>>
>>> From: Mike Manes <mrmanes@...> <mailto:mrmanes@...>
>>> Subject: Re: [GPSL] APRS abuse
>>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>

>>> Cc: "Brenden Geary" <bjgeary@...> <mailto:bjgeary@...>
>>> Date: Wednesday, August 4, 2010, 11:42 AM
>>>
>>> Hi Brendan,
>>>
>>> I don't think that either ham radio or ARHAB is dying off. Many new
>>> hams
>>> get their tickets in order to enjoy perhaps a small sliver of the ham
>>> radio hobby, such as ARES or ARHAB, and later discover more and
>>> more of the
>>> vast array of activities offered by the hobby, such as DXing,
>>> microwaves,
>>> ARDF, etc. I'm sure that if you were to join up with a ham club in your
>>> area, you'd have a chance to see what I mean.
>>>
>>> EOSS actually sprung forth from a ham club called Western Vision
>>> Network,
>>> a Denver-area group of hams who specialized in ATV (amateur
>>> television). A
>>> few of them, inspired by Bill Brown's pioneering work, decided to
>>> fly an
>>> ATV transmitter and camera into the stratosphere. So EOSS-1 was
>>> actually
>>> WNV-1, but WVN died off years ago.
>>>
>>> You're right about ARHAB not dying off - if anything, it's growing
>>> like Topsy!
>>> 20 years ago, there were just a handful of balloon groups in the
>>> US, and
>>> none overseas. Today, there at least that many coming into the fold
>>> every few
>>> months!
>>>
>>> By the way, I may have hinted in an earlier response at one of
>>> EOSS's secrets
>>> to its recovery rate: have a tracking and recovery team already
>>> deployed when
>>> the balloon launches. Although ARHAB can be a "one man game", it's
>>> a lot more
>>> fun, and less costly, if you gather a team to work with you. Which
>>> points
>>> back to my earlier point about joining a ham club. I assure you
>>> that a young
>>> fellow such as yourself will be welcomed with open arms by some of
>>> those
>>> old timers who got their first tickets about your age - but back in
>>> the vacuum
>>> tube era.
>>>
>>> I think you typoed "154.39" in your earlier email - you meant

>>> 145.39 didn't
>>> you?
>>>
>>> You should know that relying strictly on the APRS infrastructure on
>>> 144.39
>>> is no guarantee of a successful recovery. Once the payload string
>>> descends
>>> below the radio horizon of the nearest digi or I-gate, you're out
>>> of the
>>> system, and you'd better have a closer tracking and recovery
>>> station that
>>> can hear you beacons. Quite often, although the APRS packet signal
>>> can be
>>> heard from a payload on the ground, it's too weak and noisy to
>>> decode. ANd
>>> the packet bursts are too brief to allow for a decent DF bearing.
>>> This is
>>> where you need a separate, independent DF beacon on the flight
>>> string that
>>> transmits a steady signal for 15 to 30 seconds every minute or so,
>>> with a
>>> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
>>> rely on some DFing if the landing site is way out in the boonies. By
>>> "independent" I mean a completely separate payload that doesn't
>>> share power,
>>> radio, computer or antenna with your APRS beacon, since any of
>>> those can
>>> fail and bring both beacons down.
>>>
>>> Please don't take any of these suggestions as criticism, Brenden.
>>> We're just
>>> trying to give you the benefit of some of the lessons that we've
>>> learned the
>>> hard way, and we sincerely hope that your next flight results in a
>>> quick
>>> recovery and some great in-flight pix. As a science fair judge
>>> myself, it's
>>> my opinion that if you present your flight and its results in a
>>> half-way
>>> careful fashion, you'll be on your way to the regional and perhaps
>>> even the
>>> state fairs!
>>>
>>> GL es 73 de Mike W5VSI
>>> CTO EOSS
>>>
>>> On 8/3/2010 20:57, Brenden Geary wrote:
>>> >
>>> >
>>> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got

>>> my ham
>>> > ticket so I can fly balloons. Yes I have had my issues and have
>>> lost a bunch
>>> > of money in my last payload. Thanks to family and friends, some
>>> on this list,
>>> > I will fly again on Sept 4. I plan on taking down the High School
>>> science
>>> > fair, if they will let me in. I'm only entering the 8th grade but
>>> when I do
>>> > take down the Science fair with my data and photos I expect to
>>> see more
>>> > balloons next year. I started when I saw the two or three MIT
>>> students fly, so
>>> > no I do not think it is dying I think it is just starting to take
>>> off.
>>> >
>>> > I live in Southern California and trust me I can see the
>>> congestion on the
>>> > APRS network. I thought I was being smart by trying to use a freq
>>> other than
>>> > 144.39 like 154.39 and use my D700 to track it myself. I was told
>>> that I
>>> > shouldn't do this because even if this freq is open in my area,
>>> it may not be
>>> > when I get to altitude when my signal will go for 100's of miles.
>>> I this bogus
>>> > info?
>>> >
>>> > What are your thoughts
>>> >
>>> > Brenden Geary
>>> > www.BrendenGeary.com <http://www.BrendenGeary.com>
>>> > KJ6HVP
>>> >
>>> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...
>>> <http://mc/compose?to=aj0nr%40sbcglobal.net>>/* wrote:
>>> >
>>> >
>>> > From: Jon Riley <aj0nr@...
>>> <http://mc/compose?to=aj0nr%40sbcglobal.net>>
>>> > Subject: Re: [GPSL] APRS abuse
>>> > To: GPSL@yahoogroups.com
>>> <http://mc/compose?to=GPSL%40yahoogroups.com>
>>> > Date: Tuesday, August 3, 2010, 6:59 PM
>>> >
>>> > For a hobby that seems to be dieing off,he as well as others
>>> should be
>>> > happy the frequency is being used.Last time I checked nobody OWNS a
>>> > frequency,we all get to use it.
>>> > Jon Riley

>>> > AJ0NR--Project Traveler
>>> >
>>> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>
>>> <mailto:ccccrnr@...>/* wrote:
>>> >
>>> >
>>> > From: ccccrnr@aim. com <ccccrnr@aim. com> <mailto:ccccrnr@...>
>>> > Subject: Re: [GPSL] APRS abuse
>>> > To: GPSL@yahoogroups. com
>>> > Date: Tuesday, August 3, 2010, 8:10 PM
>>> >
>>> > I have to respectfully disagree with most every thing said here.
>>> >
>>> > Here in Missouri there is little digi or i-gate network. and
>>> around St
>>> > Louis even with 1watt you very well might not get onto the internet
>>> > driving around.
>>> >
>>> > and most of the traffic is just weather beacons or digis balasting
>>> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
>>> > about congestion or missing a packet.
>>> >
>>> > Also even in an area with a great Network like Kansas where GPSL was
>>> > this year, not everything gets in.
>>> > Not a signal packet after we got on the ground made it into the
>>> > network from a Fixed digi-igates, and we landed only a couple miles
>>> > outside of McPhearson. So normally nothing would have been heard once
>>> > we were on the ground, if it hadn't have been GPSL
>>> >
>>> > Also the more hardware you fly you increase cost, weight, and
>>> > batteries, you also decrease max altitude. Not to mention airtraffic
>>> > filing concerns, and impact load should you hit a house or car on the
>>> > ground.
>>> > There is also a responsibility to make sure you recover your gear and
>>> > not litter on other unsuspecting land owners.
>>> >
>>> > So levering the largely unused network out-there can make more sense
>>> > that saying throw another couple hundred dollars in the payload for
>>> > logging and forget it.
>>> >
>>> > Sincerely,
>>> > Carlton Corbitt
>>> > -.- .. ....- -. .... -.-
>>> >
>>> >
>>> >
>>> > -----Original Message-----
>>> > From: Zack Clobes <zclobes@gmail. com> <mailto:zclobes@...>
>>> > To: GPSL <GPSL@yahoogroups. com> <mailto:GPSL@yahoogroups.com>
>>> > Sent: Tue, Aug 3, 2010 1:28 pm

>>> > Subject: Re: [GPSL] APRS abuse
>>> >
>>> > That's what we've done in the past. We then transmit the detected
>>> peak
>>> > periodically via a telemetry string for the entire descent.
>>> >
>>> > Zack Clobes, W0ZC
>>> > Project: Traveler
>>> > www.projecttraveler <http://www.projecttraveler> .org <
>>> <http://www.projecttraveler.org/>http://www.projecttraveler.org/>
>>> >
>>> >
>>> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <
>>> <http://mc/compose?to=eam52%40cam.ac>eam52@...
>>> <mailto:eam52@...>. uk
>>> > <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@...>http://us.mc815.mail.yahoo.com
/mc/compose?to=eam52@...
>>> <http://cam.ac.uk>>> wrote:
>>> >
>>> > Or just log the gps on your flight computer. You'll have at least
>>> > 1hz altitude data that way, which is surely good enough- and
>>> > certainly well beyond vdop as mike says.
>>> >
>>> > Ed
>>> > CU Spaceflight
>>> >
>>> >
>>> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
>>> > <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>http://us.mc815.mail.yahoo.c
om/mc/compose?to=mrmanes@...
>>> <http://gmail.com>>>
>>> > wrote:
>>> >
>>> >> Hi Brendan,
>>> >>
>>> >> EOSS has recovered 155 of its 155 payload stings to date over
>>> >> the past
>>> >> 20 years. During the first 5 years or so, GPS was beyond our
>>> >> reach, so
>>> >> we relied strictly on 2m DF triangulation. The key here is to have
>>> >> a tracking and recovery team deployed around the predicted
>>> >> landing site
>>> >> when the balloon launches.
>>> >>
>>> >> Since then, we were one of the first groups to fly a GPS-based
>>> >> APRS beacon.
>>> >> On that first flight, we ran on 144.39, and ended up crashing
>>> >> the KPC-3 due

>>> >> to the excessive amount of traffic that it heard at altitude. So
>>> >> we've moved
>>> >> back down to 144.34 and arrange for some home-based I-gates to
>>> >> get us into
>>> >> the "infrastructure" on every flight. It's no big deal. In fact,
>>> >> on most
>>> >> flights, one of our trackers has to do no more than tune his
>>> >> home xcvr down
>>> >> 50 kHz before he leaves home.
>>> >>
>>> >> Our APRS beacons have never run over 350 mW xmit power, and
>>> >> although we beacon
>>> >> GGA every 30 sec for our own flights, we can back off to 60 sec
>>> >> for shared
>>> >> freqs like at GPSL. This power level yields solid data out past
>>> >> 100 miles
>>> >> downrange at altitude (Line of sight is a magic thing), and
>>> >> further confers
>>> >> the benefit of extended operational life from a smaller, lighter
>>> >> battery.
>>> >>
>>> >> Although I can understand wanting to know your peak altitude as
>>> >> precisely
>>> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
>>> >> ft or 50m
>>> >> every 10 sec. That's less than the VDOP of your GPS reading -
>>> >> sort of like
>>> >> measuring with a micrometer and marking with chalk. Further, the
>>> >> only reason
>>> >> I can think of to record peak altitude that precisely would be
>>> >> if you were
>>> >> attempting to beat the current ARHAB record of over 128 K'. And
>>> >> if you're
>>> >> hauling up enough batteries to support a 10W xmtr beaconing
>>> >> every 10 sec,
>>> >> fugeddaboudit!
>>> >>
>>> >> Further, one can get a pretty good estimate of one's actual peak
>>> >> altitude
>>> >> by by finding the intersection of the ascent and descent
>>> >> regression lines
>>> >> taken from the data just before and after burst. It's not
>>> >> guesswork - just
>>> >> math.
>>> >>
>>> >> 73 de Mike W5VSI
>>> >>
>>> >> On 8/2/2010 23:11, Brenden Geary wrote:
>>> >> >
>>> >> >

>>> >> > Al,
>>> >> >
>>> >> > sorry I hit send by mistake...
>>> >> >
>>> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
>>> >> also have a big
>>> >> > dad ;-) I have flown 3 balloon flights and I have used
>>> >> Wide1-1, Wide2-1 on
>>> >> > each flight. On each flight I was using a MT 8000 FA and every
>>> >> flight had
>>> >> > there own problems but on the last flight I have not recovered
>>> >> at all. I took
>>> >> > and passed my ham tech just so I can fly balloons, I really
>>> >> didn't have any
>>> >> > interest in talking on the radio... this is changing slowly.
>>> >> So at first I
>>> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
>>> >> another random
>>> >> > freq which I would monitor as a backup. I was told that the
>>> >> ham community
>>> >> > would hang me for such a thing. If some is good more is
>>> >> better... OK so I do
>>> >> > understand that every 10 seconds is crazy but I want concreat
>>> >> proof of the
>>> >> > highest my balloon went, if you ping every minute or two then
>>> >> you have to
>>> >> > guess... right? I can assure you that in my case it was
>>> >> ignorance not ego.
>>> >> > APRS is somewhat of an art or blackmajac until you get into
>>> >> it. I think emails
>>> >> > like yours will help bring awareness to the issue.
>>> >> >
>>> >> > Brenden Geary
>>> >> > KJ6HVP
>>> >> > <
>>> <http://www.brendengeary.com/>http://www.brendengeary.com/>www.BrendenGeary
>>> <http://www.BrendenGeary>. com
>>> >> < <http://www.brendengeary.com/>http://www.brendengeary.com/>
>>> >> >
>>> >> > --- On *Mon, 8/2/10, Brenden Geary /<
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>http://us.mc815.mail
.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
>>> <http://40yahoo.com>>bjgeary@yahoo.
>>> >> com
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>http://us.mc815.mail.yahoo.c
om/mc/compose?to=bjgeary@...
>>> <http://yahoo.com>>>/*
>>> >> wrote:

>>> >> >
>>> >> >
>>> >> > From: Brenden Geary <
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>http://us.mc815.mail
.yahoo.com/mc/compose?to=bjgeary%40yahoo.com
>>> <http://40yahoo.com>>bjgeary@yahoo.
>>> >> com
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>http://us.mc815.mail.yahoo.c
om/mc/compose?to=bjgeary@...
>>> <http://yahoo.com>>>
>>> >> > Subject: Re: [GPSL] APRS abuse
>>> >> > To:
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>http://us.mc815.m
ail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com
>>> <http://roups.com>>GPSL@yahoogroups.
>>> >> com
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>http://us.mc815.mai
l.yahoo.com/mc/compose?to=GPSL@yahoogroups.com
>>> <http://ups.com>>
>>> >> > Date: Monday, August 2, 2010, 9:56 PM
>>> >> >
>>> >> > Al,
>>> >> >
>>> >> > I will be 14 in a few weeks so don't beat me up too bad but I
>>> >> have flown 3
>>> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
>>> >> flight. On each
>>> >> > flight I was using a MT 8000 FA and every flight had there own
>>> >> problems
>>> >> > but on the last flight I have not recovered at all. I took and
>>> >> passed my
>>> >> > ham tech just so I can fly balloons, I really didn't have any
>>> >> interest in
>>> >> > talking on the radio... this is changing slowly. So at first I
>>> >> wanted to
>>> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
>>> >> >
>>> >> > --- On *Mon, 8/2/10, Al Wolfe /<
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>http://us.mc815.mail.yah
oo.com/mc/compose?to=k9si%40arrl.net>
>>> <http://mc/compose?to=k9si%40arrl.net>k9si@...
>>> <mailto:k9si@...>
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>http://us.mc815.mail.yahoo.com/
mc/compose?to=k9si@...>>/*

>>> >> wrote:
>>> >> >
>>> >> >
>>> >> > From: Al Wolfe <
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>http://us.mc815.mail.yah
oo.com/mc/compose?to=k9si%40arrl.net>
>>> <http://mc/compose?to=k9si%40arrl.net>k9si@...
>>> <mailto:k9si@...>
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>http://us.mc815.mail.yahoo.com/
mc/compose?to=k9si@...>>
>>> >> > Subject: [GPSL] APRS abuse
>>> >> > To: GPSL@yahoogroups. com
>>> >> > Date: Monday, August 2, 2010, 10:12 AM
>>> >> >
>>> >> > I'm a veteran of several balloon chases dating back to the
>>> >> Wintrax days
>>> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
>>> >> and APRS in
>>> >> > tracking balloons. I have also seen remarkable growth in the
>>> >> abuse of the
>>> >> > APRS system in tracking balloons and don't know whether it is
>>> >> > ignorance or
>>> >> > egocentricalism.
>>> >> >
>>> >> > There have been several balloons lately aloft here in the
>>> >> Midwest with a
>>> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
>>> >> useful near the
>>> >> > ground, it has no place while at any altitude. This is a very
>>> >> selfish
>>> >> > path!
>>> >> > It can cause every properly configured APRS station in an area
>>> >> of over
>>> >> > 100,000 square mile to repeat the balloon packets. While no
>>> >> path at all
>>> >> > would likely be fine, a path of Wide2-1 would probably not be
>>> >> considered
>>> >> > abusive. This would only fire off the digis.
>>> >> >
>>> >> > As I said a path with 1-x can certainly be useful near the
>>> >> ground when
>>> >> > trying to find a downed package. The Tiny Trak can change
>>> >> paths with a
>>> >> > simple contact closure. A simple anaroid or pressure switch
>>> >> would be all
>>> >> > that's needed to change to a less abusive path at some fairly low
>>> >> > altitude.
>>> >> > Or some simple telecommand system could be used.

>>> >> >
>>> >> > The APRS system has only a limited capacity and is shared by
>>> >> all the
>>> >> > users. Ten or twelve years ago it would take weeks to
>>> >> accumulate 300
>>> >> > different stations in the log here. Now it often takes only a
>>> >> couple of
>>> >> > hours to see that many. In many areas the digis are in nearly
>>> >> constant
>>> >> > use.
>>> >> > Eliminating the Wide1-1 balloon packets would certainly cut
>>> >> out some
>>> >> > of the
>>> >> > clamor.
>>> >> >
>>> >> > Some have argued that balloons should use another frequency
>>> >> than 144.39.
>>> >> > However, the infrastucture exists on 39 so it makes sense to
>>> >> use it. Just
>>> >> > don't abuse it.
>>> >> >
>>> >> > 73,
>>> >> > Al, K9SI
>>> >> >
>>> >> >
>>> >> >
>>> >> >
>>> >> >
>>> >> >
>>> >>
>>> >> --
>>> >> Mike Manes
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>http://us.mc815.mail
.yahoo.com/mc/compose?to=mrmanes%40gmail.com
>>> <http://40gmail.com>>mrmanes@gmail.
>>> >> com
>>> >> <
>>> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>http://us.mc815.mail.yahoo.c
om/mc/compose?to=mrmanes@...
>>> <http://gmail.com>>
>>> >> Tel: 303-979-4899
>>> >> "Things should be made as simple as possible, but not more so."
>>> >> A. Einstein
>>> >
>>> >
>>> >
>>> >
>>> >
>>> >

>>>
>>> --
>>> Mike Manes mrmanes@...
>>> <http://mc/compose?to=mrmanes%40gmail.com> Tel: 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
>>>
>>>
>>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7961. Fwd: Delivery Status Notification (Failure)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 02:43:13 UTC
From: Mike Manes
Topic: 7961 Message: 7961

Que pasa?
- Mike

-------- Original Message --------
Subject: Delivery Status Notification (Failure)
Date: Thu, 05 Aug 2010 02:27:22 +0000
From: Mail Delivery Subsystem <mailer-daemon@...>
To: MRManes@...

Delivery to the following recipient failed permanently:

GPSL@yahoogroups.com

Technical details of permanent failure:
Google tried to deliver your message, but it was rejected by the recipient
domain. We recommend contacting the other email provider for further
information about the cause of this error. The error that the other server
returned was: 553 553 sorry, that domain isn't in my list of allowed rcpthosts
(#5.7.1) (state 14).

----- Original message -----

Received: by 10.151.138.4 with SMTP id q4mr11680388ybn.59.1280975232834;
Wed, 04 Aug 2010 19:27:12 -0700 (PDT)
Return-Path: <mrmanes@...>
Received: from [192.168.0.67] (75-166-240-163.hlrn.qwest.net [75.166.240.163])
by mx.google.com with ESMTPS id 36sm1583720ybr.20.2010.08.04.19.27.11
(version=TLSv1/SSLv3 cipher=RC4-MD5);
Wed, 04 Aug 2010 19:27:12 -0700 (PDT)
Message-ID: <4C5A2159.7070004@...>
Date: Wed, 04 Aug 2010 20:26:33 -0600
From: Mike Manes <mrmanes@...>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.7)
Gecko/20100713 Thunderbird/3.1.1
MIME-Version: 1.0
To: GPSL@yahoogroups.com
CC: k6rpt <Ron@...>
Subject: Re: [GPSL] Re: Payload box construction for high altitude flight
References: <i3d2la+d4vq@...>
In-Reply-To: <i3d2la+d4vq@...>
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: quoted-printable

When is sunrise at your launch site? If you fly before sunrise, you'll
need a strobe light if you're non-exempt. If you're exempt, then it's
still a nice touch.

BTW, how close to Class B airspace (SFO?) are you flying?

Given the thickness of your walls, I doubt that much heat will pass from
solar flux absorbed by the outer walls will make it inside. And most paint
pigments aren't very good IR absorbers. You'd be better off painting it
a fluorescent orange to make it easier to spot in the field. The best solar
absorptive paint uses carbon black pigment, and that might attenuate the
GPS sigs. If so, then just move your GPS antenna to the top of the box.
Or just leave the top unpainted.

73 de Mike W5VSI
EOSS

On 8/4/2010 19:03, k6rpt wrote:
> The payload box is white and Northern California TRACON wants me of the ground by 5 – 5:30am. I would assume that I would still benefit form solar heat if I painted the box black with Krylon foam safe paint. Will Krylon paint block RF for the GPS to receive?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@...> wrote:
>>
>> I run with 3/4 inch thick walls and don't drop below 32 *F except early
>> during descent. Exterior color does make a difference. Do you have dark
>> colors on the exterior?
>>
>> Paul
>>
>> On Wed, Aug 4, 2010 at 4:50 PM, k6rpt<Ron@...> wrote:
>>
>>> Currently my payload box has 1 ½" foam walls with a locking lid. I put it
>>> in the freezer that has a temperature of -5 to 0 degrees, and in 2 hours the
>>> internal temperature dropped from 70 to 5 degrees. I flew this same payload
>>> box to 105k feet with no problems, all equipment continued to work fine. I
>>> didn't think the internal temperature would drop so quickly. I'm running
>>> these tests because my upcoming high altitude attempt that will be in near
>>> space an additional 30 to 45 minutes longer than the average flight.
>>>
>>> How thick should the foam walls be for a high altitude flight that will be
>>> in near space 30 to 45 minutes longer?
>>>

7962. Re: [GPSL] Science fair

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 03:03:17 UTC
From: wb8elk@aol.com
Topic: 7915 Message: 7962

Brenden,

I advised local 8th grade student Jodie Tinker for her Science Fair high altitude balloon...she ended up winning 1st place in her category in the Alabama State Science Fair this year as well as 10 additional special awards...it's a great way to showcase Earth's environment all the way up to the very edge of Space and is a great Science Fair topic.

I'm currently traveling in Indiana preparing for this Friday's balloon flight for students attending the Spaceport Indiana science camp...when I get back home I'll send you some photos from Jodie's flights earlier this year.

- Bill Brown WB8ELK
www.wb8elk.com

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Brenden Geary <bjgeary@yahoo.com>
Sent: Wed, Aug 4, 2010 4:55 pm
Subject: [GPSL] Science fair

Hi Brenden,

Well, shucks! It sounds as though you've got The Right Stuff to make your next flight a success! Just a few tips:

1. Back off on your APRS xmit power - the Alinco DJ-Cx series of credit card HTs have served EOSS excellently for years. They work fine from regulated +5Vdc, which may be the same source used by your GPS and flight computer.

2. Although "things should be made as possible, but not more so" does apply to the guts of your payload. Don't skimp on mechanical robustness of the stuff on the outside, however. PBC and a windy landing can break off antennas and break open weak enclosures. A good test is to kick the payload down a flight of stairs.

3. Cold soak you payload with power off in a food freezer at 0F (-16C) for about 4 hours, powered off. Then see if it powers up and runs OK.

4. Do run a separate backup beacon.

Now, I can understand everyone's wanting to watch the launch. And for a summer flight, where the landing isn't far from the launch site, that's OK. But in the winter, after the upper winds turn westerly, it's best to have your trackers out in the field at launch. Shanghai a videographer to film your launch to show the trackers, and trade it for a video of the descent and landing :=).

For your mission, recovery of your payload(s) intact is critical, so don't give Murphy an even break there.

Some suggestions for your science fair presentation:

Instead of just Boyle's Law, use Archimedes law to show why a balloon rises in the atmosphere. Might also show the how the lift of different gasses compare (some may be surprised that H2 isn't much better than He).

Use time as your independent variable only for GPS altitude. Explain why the ascent rate is nearly constant, while the descent rate under the parachute is exponential.

Plot your various in situ air measurements vs. altitude rather than time. Point out and explain the tropopause level.

Explain the time lag between internal and external temperature.

Note that relative humidity sensors are pretty temperature-sensitive, and most just won't work at all below freezing. Consider instead using a UV-sensitive photo-detector to show how UV solar intensity varies with altitude. A common CdS photocell and UV filter in a resistive divider network feeding the analog input of your logger should work.

Be sure to point out stuff that all this data taught you - that's something judges look for, and as a bonus, where you hope to go with future flights.

And of course, the highlight of your display should be those photos of the limb of Earth against the blackness of space!

73 de Mike W5VSI

On 8/4/2010 14:08, Brenden Geary wrote:
>
>
> I am in a ham club (http://www.w6ier.org/) and yes I was welcomed with open
> arms. They tried to put a link to my site on the home page but it's a dead
> link. I am trying to help them out but I think they are a little worried about
> a kid working on their site. I usually have a large group for my launch and
> nobody in the landing zone, everyone wants to watch it take off. Having a
> group in the predicted landing site is a great idea, I will see if I can get
> some people to monitor the predicted landing site. I didn't take any of your
> suggestions as criticism, I am on this list just soaking up the knowledge. As
> far as presenting my results in a half-way careful fashion, here are my ideas:
> Show the predicted flight path vs Actual flight path
> Display Boyles law which and explain why it makes the balloon pop
> Graph Time vs Barometric Pressure
> Graph Time vs humidity* *
> Graph Time vs Temp inside and outside the payload
> and of course the eye candy pictures at altitude.
>
> What do you think of my project? Anyone please feel free let me know what you
> think... its all good.
>

> Brenden
> KJ6HVP
>
>
>
> --- On *Wed, 8/4/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] APRS abuse
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Wednesday, August 4, 2010, 11:42 AM
>
> Hi Brendan,
>
> I don't think that either ham radio or ARHAB is dying off. Many new hams
> get their tickets in order to enjoy perhaps a small sliver of the ham
> radio hobby, such as ARES or ARHAB, and later discover more and more of the
> vast array of activities offered by the hobby, such as DXing, microwaves,
> ARDF, etc. I'm sure that if you were to join up with a ham club in your
> area, you'd have a chance to see what I mean.
>
> EOSS actually sprung forth from a ham club called Western Vision Network,
> a Denver-area group of hams who specialized in ATV (amateur television). A
> few of them, inspired by Bill Brown's pioneering work, decided to fly an
> ATV transmitter and camera into the stratosphere. So EOSS-1 was actually
> WNV-1, but WVN died off years ago.
>
> You're right about ARHAB not dying off - if anything, it's growing like
> Topsy!
> 20 years ago, there were just a handful of balloon groups in the US, and
> none overseas. Today, there at least that many coming into the fold every few
> months!
>
> By the way, I may have hinted in an earlier response at one of EOSS's secrets
> to its recovery rate: have a tracking and recovery team already deployed when
> the balloon launches. Although ARHAB can be a "one man game", it's a lot more
> fun, and less costly, if you gather a team to work with you. Which points
> back to my earlier point about joining a ham club. I assure you that a young
> fellow such as yourself will be welcomed with open arms by some of those
> old timers who got their first tickets about your age - but back in the vacuum
> tube era.
>
> I think you typoed "154.39" in your earlier email - you meant 145.39 didn't
> you?
>
> You should know that relying strictly on the APRS infrastructure on 144.39
> is no guarantee of a successful recovery. Once the payload string descends
> below the radio horizon of the nearest digi or I-gate, you're out of the

> system, and you'd better have a closer tracking and recovery station that
> can hear you beacons. Quite often, although the APRS packet signal can be
> heard from a payload on the ground, it's too weak and noisy to decode. ANd
> the packet bursts are too brief to allow for a decent DF bearing. This is
> where you need a separate, independent DF beacon on the flight string that
> transmits a steady signal for 15 to 30 seconds every minute or so, with a
> CW ID, of course, that you can DF on. Many of EOSS's recoveries still
> rely on some DFing if the landing site is way out in the boonies. By
> "independent" I mean a completely separate payload that doesn't share power,
> radio, computer or antenna with your APRS beacon, since any of those can
> fail and bring both beacons down.
>
> Please don't take any of these suggestions as criticism, Brenden. We're just
> trying to give you the benefit of some of the lessons that we've learned the
> hard way, and we sincerely hope that your next flight results in a quick
> recovery and some great in-flight pix. As a science fair judge myself, it's
> my opinion that if you present your flight and its results in a half-way
> careful fashion, you'll be on your way to the regional and perhaps even the
> state fairs!
>
> GL es 73 de Mike W5VSI
> CTO EOSS
>
> On 8/3/2010 20:57, Brenden Geary wrote:
> >
> >
> > Which hobby seems to be dying off? HAM or ARHAB... or both? I got my ham
> > ticket so I can fly balloons. Yes I have had my issues and have lost a
> bunch
> > of money in my last payload. Thanks to family and friends, some on this
> list,
> > I will fly again on Sept 4. I plan on taking down the High School science
> > fair, if they will let me in. I'm only entering the 8th grade but when I do
> > take down the Science fair with my data and photos I expect to see more
> > balloons next year. I started when I saw the two or three MIT students
> fly, so
> > no I do not think it is dying I think it is just starting to take off.
> >
> > I live in Southern California and trust me I can see the congestion on the
> > APRS network. I thought I was being smart by trying to use a freq other
> than
> > 144.39 like 154.39 and use my D700 to track it myself. I was told that I
> > shouldn't do this because even if this freq is open in my area, it may
> not be
> > when I get to altitude when my signal will go for 100's of miles. I
> this bogus
> > info?
> >
> > What are your thoughts
> >

> > Brenden Geary
> > www.BrendenGeary.com
> > KJ6HVP
> >
> > --- On *Tue, 8/3/10, Jon Riley /<aj0nr@...
> </mc/compose?to=aj0nr%40sbcglobal.net>>/* wrote:
> >
> >
> > From: Jon Riley <aj0nr@sbcglobal.net
> </mc/compose?to=aj0nr%40sbcglobal.net>>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups.com </mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Tuesday, August 3, 2010, 6:59 PM
> >
> > For a hobby that seems to be dieing off,he as well as others should be
> > happy the frequency is being used.Last time I checked nobody OWNS a
> > frequency,we all get to use it.
> > Jon Riley
> > AJ0NR--Project Traveler
> >
> > --- On *Tue, 8/3/10, ccccrnr@aim. com /<ccccrnr@aim. com>/* wrote:
> >
> >
> > From: ccccrnr@aim. com <ccccrnr@aim. com>
> > Subject: Re: [GPSL] APRS abuse
> > To: GPSL@yahoogroups. com
> > Date: Tuesday, August 3, 2010, 8:10 PM
> >
> > I have to respectfully disagree with most every thing said here.
> >
> > Here in Missouri there is little digi or i-gate network. and around St
> > Louis even with 1watt you very well might not get onto the internet
> > driving around.
> >
> > and most of the traffic is just weather beacons or digis balasting
> > with 50 to 100Watts on 2 meter so most of the traffic doesn't care
> > about congestion or missing a packet.
> >
> > Also even in an area with a great Network like Kansas where GPSL was
> > this year, not everything gets in.
> > Not a signal packet after we got on the ground made it into the
> > network from a Fixed digi-igates, and we landed only a couple miles
> > outside of McPhearson. So normally nothing would have been heard once
> > we were on the ground, if it hadn't have been GPSL
> >
> > Also the more hardware you fly you increase cost, weight, and
> > batteries, you also decrease max altitude. Not to mention airtraffic
> > filing concerns, and impact load should you hit a house or car on the
> > ground.
> > There is also a responsibility to make sure you recover your gear and

> > not litter on other unsuspecting land owners.
> >
> > So levering the largely unused network out-there can make more sense
> > that saying throw another couple hundred dollars in the payload for
> > logging and forget it.
> >
> > Sincerely,
> > Carlton Corbitt
> > -.- .. ....- -. .... -.-
> >
> >
> >
> > -----Original Message-----
> > From: Zack Clobes <zclobes@gmail. com>
> > To: GPSL <GPSL@yahoogroups. com>
> > Sent: Tue, Aug 3, 2010 1:28 pm
> > Subject: Re: [GPSL] APRS abuse
> >
> > That's what we've done in the past. We then transmit the detected peak
> > periodically via a telemetry string for the entire descent.
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler .org <http://www.projecttraveler.org/>
> >
> >
> > On Tue, Aug 3, 2010 at 5:18 PM, Ed Moore <eam52@...
> </mc/compose?to=eam52%40cam.ac>. uk
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=eam52@cam.ac.uk>> wrote:
> >
> > Or just log the gps on your flight computer. You'll have at least
> > 1hz altitude data that way, which is surely good enough- and
> > certainly well beyond vdop as mike says.
> >
> > Ed
> > CU Spaceflight
> >
> >
> > On 3 Aug 2010, at 20:43, Mike Manes <mrmanes@gmail. com
> > <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@...>>
> > wrote:
> >
> >> Hi Brendan,
> >>
> >> EOSS has recovered 155 of its 155 payload stings to date over
> >> the past
> >> 20 years. During the first 5 years or so, GPS was beyond our
> >> reach, so
> >> we relied strictly on 2m DF triangulation. The key here is to have
> >> a tracking and recovery team deployed around the predicted

> >> landing site
> >> when the balloon launches.
> >>
> >> Since then, we were one of the first groups to fly a GPS-based
> >> APRS beacon.
> >> On that first flight, we ran on 144.39, and ended up crashing
> >> the KPC-3 due
> >> to the excessive amount of traffic that it heard at altitude. So
> >> we've moved
> >> back down to 144.34 and arrange for some home-based I-gates to
> >> get us into
> >> the "infrastructure" on every flight. It's no big deal. In fact,
> >> on most
> >> flights, one of our trackers has to do no more than tune his
> >> home xcvr down
> >> 50 kHz before he leaves home.
> >>
> >> Our APRS beacons have never run over 350 mW xmit power, and
> >> although we beacon
> >> GGA every 30 sec for our own flights, we can back off to 60 sec
> >> for shared
> >> freqs like at GPSL. This power level yields solid data out past
> >> 100 miles
> >> downrange at altitude (Line of sight is a magic thing), and
> >> further confers
> >> the benefit of extended operational life from a smaller, lighter
> >> battery.
> >>
> >> Although I can understand wanting to know your peak altitude as
> >> precisely
> >> as possible, consider this: at 1000 fpm, you're ascending 166.7
> >> ft or 50m
> >> every 10 sec. That's less than the VDOP of your GPS reading -
> >> sort of like
> >> measuring with a micrometer and marking with chalk. Further, the
> >> only reason
> >> I can think of to record peak altitude that precisely would be
> >> if you were
> >> attempting to beat the current ARHAB record of over 128 K'. And
> >> if you're
> >> hauling up enough batteries to support a 10W xmtr beaconing
> >> every 10 sec,
> >> fugeddaboudit!
> >>
> >> Further, one can get a pretty good estimate of one's actual peak
> >> altitude
> >> by by finding the intersection of the ascent and descent
> >> regression lines
> >> taken from the data just before and after burst. It's not
> >> guesswork - just

> >> math.
> >>
> >> 73 de Mike W5VSI
> >>
> >> On 8/2/2010 23:11, Brenden Geary wrote:
> >> >
> >> >
> >> > Al,
> >> >
> >> > sorry I hit send by mistake...
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad. (I
> >> also have a big
> >> > dad ;-) I have flown 3 balloon flights and I have used
> >> Wide1-1, Wide2-1 on
> >> > each flight. On each flight I was using a MT 8000 FA and every
> >> flight had
> >> > there own problems but on the last flight I have not recovered
> >> at all. I took
> >> > and passed my ham tech just so I can fly balloons, I really
> >> didn't have any
> >> > interest in talking on the radio... this is changing slowly.
> >> So at first I
> >> > wanted to transmit at 10watts every 10 seconds on 144.39 and
> >> another random
> >> > freq which I would monitor as a backup. I was told that the
> >> ham community
> >> > would hang me for such a thing. If some is good more is
> >> better... OK so I do
> >> > understand that every 10 seconds is crazy but I want concreat
> >> proof of the
> >> > highest my balloon went, if you ping every minute or two then
> >> you have to
> >> > guess... right? I can assure you that in my case it was
> >> ignorance not ego.
> >> > APRS is somewhat of an art or blackmajac until you get into
> >> it. I think emails
> >> > like yours will help bring awareness to the issue.
> >> >
> >> > Brenden Geary
> >> > KJ6HVP
> >> > <http://www.brendengeary.com/>www.BrendenGeary. com
> >> <http://www.brendengeary.com/>
> >> >
> >> > --- On *Mon, 8/2/10, Brenden Geary /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>/*
> >> wrote:

> >> >
> >> >
> >> > From: Brenden Geary <
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary%40yahoo.com>bjgeary@yahoo.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=bjgeary@...>>
> >> > Subject: Re: [GPSL] APRS abuse
> >> > To:
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL%40yahoogroups.com>GPSL@yahoogroups.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=GPSL@yahoogroups.com>
> >> > Date: Monday, August 2, 2010, 9:56 PM
> >> >
> >> > Al,
> >> >
> >> > I will be 14 in a few weeks so don't beat me up too bad but I
> >> have flown 3
> >> > balloon flights and I have used Wide1-1, Wide2-1 on each
> >> flight. On each
> >> > flight I was using a MT 8000 FA and every flight had there own
> >> problems
> >> > but on the last flight I have not recovered at all. I took and
> >> passed my
> >> > ham tech just so I can fly balloons, I really didn't have any
> >> interest in
> >> > talking on the radio... this is changing slowly. So at first I
> >> wanted to
> >> > transmit at 10watts every 10 seconds on 144.39 and another freq
> >> >
> >> > --- On *Mon, 8/2/10, Al Wolfe /<
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
</mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>/*
> >> wrote:
> >> >
> >> >
> >> > From: Al Wolfe <
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si%40arrl.net>k9si@...
</mc/compose?to=k9si%40arrl.net>
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=k9si@...>>
> >> > Subject: [GPSL] APRS abuse
> >> > To: GPSL@yahoogroups. com
> >> > Date: Monday, August 2, 2010, 10:12 AM
> >> >
> >> > I'm a veteran of several balloon chases dating back to the
> >> Wintrax days

> >> > in Indiana. I have seen a phenomenal growth in the use of GPS
> >> and APRS in
> >> > tracking balloons. I have also seen remarkable growth in the
> >> abuse of the
> >> > APRS system in tracking balloons and don't know whether it is
> >> > ignorance or
> >> > egocentricalism.
> >> >
> >> > There have been several balloons lately aloft here in the
> >> Midwest with a
> >> > path of Wide1-1, Wide2-x. While the 1-1 may certainly be
> >> useful near the
> >> > ground, it has no place while at any altitude. This is a very
> >> selfish
> >> > path!
> >> > It can cause every properly configured APRS station in an area
> >> of over
> >> > 100,000 square mile to repeat the balloon packets. While no
> >> path at all
> >> > would likely be fine, a path of Wide2-1 would probably not be
> >> considered
> >> > abusive. This would only fire off the digis.
> >> >
> >> > As I said a path with 1-x can certainly be useful near the
> >> ground when
> >> > trying to find a downed package. The Tiny Trak can change
> >> paths with a
> >> > simple contact closure. A simple anaroid or pressure switch
> >> would be all
> >> > that's needed to change to a less abusive path at some fairly low
> >> > altitude.
> >> > Or some simple telecommand system could be used.
> >> >
> >> > The APRS system has only a limited capacity and is shared by
> >> all the
> >> > users. Ten or twelve years ago it would take weeks to
> >> accumulate 300
> >> > different stations in the log here. Now it often takes only a
> >> couple of
> >> > hours to see that many. In many areas the digis are in nearly
> >> constant
> >> > use.
> >> > Eliminating the Wide1-1 balloon packets would certainly cut
> >> out some
> >> > of the
> >> > clamor.
> >> >
> >> > Some have argued that balloons should use another frequency
> >> than 144.39.
> >> > However, the infrastucture exists on 39 so it makes sense to

> >> use it. Just
> >> > don't abuse it.
> >> >
> >> > 73,
> >> > Al, K9SI
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >>
> >> --
> >> Mike Manes
> >>
> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes%40gmail.com>mrmanes@gmail.
> >> com
> >> <http://us.mc815.mail.yahoo.com/mc/compose?to=mrmanes@gmail.com>
> >> Tel: 303-979-4899
> >> "Things should be made as simple as possible, but not more so."
> >> A. Einstein
> >
> >
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... </mc/compose?to=mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7963. Re: APRS abuse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 04:38:15 UTC
From: w0jrt
Topic: 7915 Message: 7963

Brenden,

It's not bogus info -- care must be given when selecting a frequency. The best bet is to avoid frequencies that are commonly used for other things (like ATV Talkback on 144.34), and to find a frequency where the mode that you're using is commonly used. APRS, when sent on VHF, typically uses 1200 baud packet. Therefore it would be logical to put it on a packet frequency. Check the band plan or repeater frequency coordinator for your state / section, and any surrounding states / sections that may be in the "footprint" of your package when it's at altitude (this may be several hundred miles). In many (most?) parts of the country the dedicated packet frequencies are 145.01, 145.03, 145.05, 145.07, and 145.09. The following are also commonly used: 144.99, 144.97, 144.95, 144.93, 144.91. But again, check the band plan for your area and check with the frequency coordinator to make sure the frequency you choose will not interfere with other users such as a voice repeater input.

It should be noted that 144.99 is the more-or-less nationally accepted "alternate" APRS frequency so it is ideal for things such as balloon flights that want to use higher rate (10 second, or even 5 second or less) update rates without causing any strain on the 144.39 network.

-Jerome, W0JRT

--- In GPSL@yahoogroups.com, Brenden Geary <bjgeary@...> wrote:

> I live in Southern California and trust me I can see the congestion on the APRS network.Â I thought I was being smart by trying to use a freq other than 144.39 like 154.39 and use my D700 to track it myself.Â I was told that I shouldn't do this because even if this
freq is open in my area, it may not be when I get to altitude when my signal will go for 100's of miles.Â I this bogus info?

7964. Re: [GPSL] Re: Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 14:14:37 UTC
From: L. Paul Verhage
Topic: 7946 Message: 7964

There may be carbon in black paint, but I don't think that's a problem. I cover my airframes in black fabric.

One thing to try is to pre-heat the interior with a hair drier.

Paul

On Wed, Aug 4, 2010 at 8:03 PM, k6rpt <Ron@...> wrote:

> The payload box is white and Northern California TRACON wants me of the
> ground by 5 – 5:30am. I would assume that I would still benefit form solar
> heat if I painted the box black with Krylon foam safe paint. Will Krylon
> paint block RF for the GPS to receive?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
> >
> > I run with 3/4 inch thick walls and don't drop below 32 *F except early
> > during descent. Exterior color does make a difference. Do you have dark
> > colors on the exterior?
> >
> > Paul
> >
> > On Wed, Aug 4, 2010 at 4:50 PM, k6rpt <Ron@...> wrote:
> >
> > > Currently my payload box has 1 ½" foam walls with a locking lid. I put
> it
> > > in the freezer that has a temperature of -5 to 0 degrees, and in 2
> hours the
> > > internal temperature dropped from 70 to 5 degrees. I flew this same
> payload
> > > box to 105k feet with no problems, all equipment continued to work
> fine. I
> > > didn't think the internal temperature would drop so quickly. I'm
> running
> > > these tests because my upcoming high altitude attempt that will be in
> near
> > > space an additional 30 to 45 minutes longer than the average flight.
> > >
> > > How thick should the foam walls be for a high altitude flight that will
> be
> > > in near space 30 to 45 minutes longer?
> > >
> > > What is a safe internal operating temperature for the Garmin GPS 18 LVC
> and

> > > a Micro-Track 8000 FA?
> > >
> > > -Ron K6RPT
> > >
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> >
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

7965. Re: [GPSL] GPSL Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 14:42:44 UTC
From: Michael Willett
Topic: 198 Message: 7965

Great set of pictures, Zack!

I especially like eating at restaurants with ghosts in them, an unexpected treat you caught on film! :)

--Michael K5NOT

On 8/4/2010 9:23 PM, Zack Clobes wrote:
>
> I've posted the photos for my website.
>
> http://picasaweb.google.com/projecttraveler/GPSL2010HutchinsonKS#
> <http://picasaweb.google.com/projecttraveler/GPSL2010HutchinsonKS#>
>
>
> I'm working with Keith to try to get the PPT's and the WebEx
> recordings posted yet this week.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>

7966. Re: [GPSL] Re: Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 14:50:15 UTC
From: Joe
Topic: 7946 Message: 7966
Attachments: 1 described; binary payloads are missing from this source WARC

Or as in our foil covered boxes we have done Both.

Mount the antenna on the outside, (never had one freeze up yet)
or
mount it inside but leave a window of un painted area large enough that
it can see 90% of the sky. (this has worked fine also)

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/5/2010 9:14 AM, L. Paul Verhage wrote:
>
>
> There may be carbon in black paint, but I don't think that's a
> problem. I cover my airframes in black fabric.
> One thing to try is to pre-heat the interior with a hair drier.
> Paul
>
> On Wed, Aug 4, 2010 at 8:03 PM, k6rpt <Ron@...
> <mailto:Ron@...>> wrote:
>
> The payload box is white and Northern California TRACON wants me
> of the ground by 5 ? 5:30am. I would assume that I would still
> benefit form solar heat if I painted the box black with Krylon
> foam safe paint. Will Krylon paint block RF for the GPS to receive?
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, "L.
> Paul Verhage" <nearsys@...> wrote:
> >
> > I run with 3/4 inch thick walls and don't drop below 32 *F
> except early
> > during descent. Exterior color does make a difference. Do you
> have dark
> > colors on the exterior?
> >
> > Paul
> >
> > On Wed, Aug 4, 2010 at 4:50 PM, k6rpt <Ron@...> wrote:

> >
> > > Currently my payload box has 1 ?" foam walls with a locking
> lid. I put it
> > > in the freezer that has a temperature of -5 to 0 degrees, and
> in 2 hours the
> > > internal temperature dropped from 70 to 5 degrees. I flew
> this same payload
> > > box to 105k feet with no problems, all equipment continued to
> work fine. I
> > > didn't think the internal temperature would drop so quickly.
> I'm running
> > > these tests because my upcoming high altitude attempt that
> will be in near
> > > space an additional 30 to 45 minutes longer than the average
> flight.
> > >
> > > How thick should the foam walls be for a high altitude flight
> that will be
> > > in near space 30 to 45 minutes longer?
> > >
> > > What is a safe internal operating temperature for the Garmin
> GPS 18 LVC and
> > > a Micro-Track 8000 FA?
> > >
> > > -Ron K6RPT
> > >
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > >
> > >
> > >
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> > --
> > Onwards and Upwards,
> > Paul
> >
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> ------------------------------------
>
> Yahoo! Groups Links
>

>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
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> --
> Onwards and Upwards,
> Paul
>
>
>

7967. Re: [GPSL] GPSL Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 14:53:15 UTC
From: Joe
Topic: 198 Message: 7967
Attachments: 1 described; binary payloads are missing from this source WARC

That Ghost is pretty cool!

Has anyone made any sort of a summary?

Like who flew what on what size balloon with payload weights etc.?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/5/2010 9:42 AM, Michael Willett wrote:
>
>
> Great set of pictures, Zack!
>
> I especially like eating at restaurants with ghosts in them, an
> unexpected treat you caught on film! :)
>
> --Michael K5NOT
>
>
> On 8/4/2010 9:23 PM, Zack Clobes wrote:
>>
>> I've posted the photos for my website.
>>
>> http://picasaweb.google.com/projecttraveler/GPSL2010HutchinsonKS#
>> <http://picasaweb.google.com/projecttraveler/GPSL2010HutchinsonKS#>
>>
>>
>> I'm working with Keith to try to get the PPT's and the WebEx
>> recordings posted yet this week.
>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org <http://www.projecttraveler.org>
>>
>
>
>
>

7968. Re: Fwd: Delivery Status Notification (Failure)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 14:56:15 UTC
From: k6rpt
Topic: 7961 Message: 7968

Hi Mike,

Sunrise is at 6:15am and the payload weight is 10 ounces, so I'm exempt. The strobe won't work out because I'm going for an altitude record and the weight would be unacceptable. I will be launching from San Jose, CA, so the concern is San Jose international air port. This mission will be a non-recovery mission so I'm not concerned with the color for finding it. Good point about the solar heat not making it through the walls.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Que pasa?
> - Mike
>
> -------- Original Message --------
> Subject: Delivery Status Notification (Failure)
> Date: Thu, 05 Aug 2010 02:27:22 +0000
> From: Mail Delivery Subsystem <mailer-daemon@...>
> To: MRManes@...
>
> Delivery to the following recipient failed permanently:
>
> GPSL@yahoogroups.com
>
> Technical details of permanent failure:
> Google tried to deliver your message, but it was rejected by the recipient
> domain. We recommend contacting the other email provider for further
> information about the cause of this error. The error that the other server
> returned was: 553 553 sorry, that domain isn't in my list of allowed rcpthosts
> (#5.7.1) (state 14).
>
> ----- Original message -----
>
> Received: by 10.151.138.4 with SMTP id q4mr11680388ybn.59.1280975232834;
> Wed, 04 Aug 2010 19:27:12 -0700 (PDT)
> Return-Path: <mrmanes@...>
> Received: from [192.168.0.67] (75-166-240-163.hlrn.qwest.net [75.166.240.163])
> by mx.google.com with ESMTPS id 36sm1583720ybr.20.2010.08.04.19.27.11
> (version=TLSv1/SSLv3 cipher=RC4-MD5);
> Wed, 04 Aug 2010 19:27:12 -0700 (PDT)
> Message-ID: <4C5A2159.7070004@...>
> Date: Wed, 04 Aug 2010 20:26:33 -0600
> From: Mike Manes <mrmanes@...>
> User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.0; en-US; rv:1.9.2.7)

> Gecko/20100713 Thunderbird/3.1.1
> MIME-Version: 1.0
> To: GPSL@yahoogroups.com
> CC: k6rpt <Ron@...>
> Subject: Re: [GPSL] Re: Payload box construction for high altitude flight
> References: <i3d2la+d4vq@...>
> In-Reply-To: <i3d2la+d4vq@...>
> Content-Type: text/plain; charset=windows-1252; format=flowed
> Content-Transfer-Encoding: quoted-printable
>
> When is sunrise at your launch site? If you fly before sunrise, you'll
> need a strobe light if you're non-exempt. If you're exempt, then it's
> still a nice touch.
>
> BTW, how close to Class B airspace (SFO?) are you flying?
>
> Given the thickness of your walls, I doubt that much heat will pass from
> solar flux absorbed by the outer walls will make it inside. And most paint
> pigments aren't very good IR absorbers. You'd be better off painting it
> a fluorescent orange to make it easier to spot in the field. The best solar
> absorptive paint uses carbon black pigment, and that might attenuate the
> GPS sigs. If so, then just move your GPS antenna to the top of the box.
> Or just leave the top unpainted.
>
> 73 de Mike W5VSI
> EOSS
>
> On 8/4/2010 19:03, k6rpt wrote:
> > The payload box is white and Northern California TRACON wants me of the ground by 5 ☐ 5:30am. I would assume that I would still benefit form solar heat if I painted the box black with Krylon foam safe paint. Will Krylon paint block RF for the GPS to receive?
> >
> > -Ron K6RPT
> >
> > --- In GPSL@yahoogroups.com, "L. Paul Verhage"<nearsys@> wrote:
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> >>> box to 105k feet with no problems, all equipment continued to work fine. I
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> >>> these tests because my upcoming high altitude attempt that will be in near
> >>> space an additional 30 to 45 minutes longer than the average flight.
> >>>
> >>> How thick should the foam walls be for a high altitude flight that will be
> >>> in near space 30 to 45 minutes longer?
> >>>
>

7969. Re: Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 15:58:17 UTC
From: k6rpt
Topic: 7946 Message: 7969

What do you heat the batteries with?

-Ron K6RPT

--- In GPSL@yahoogroups.com, "Meer, Stephen" <smeer@...> wrote:
>
> A trick I use with the K0SCC payloads is to heat the batteries in a standard heating pad to 90 degrees F prior to sealing them into the payload envelope. The thermal mass does wonders for keeping the temp up.
>
> One of my flight packages is a GPS relay that consists of a Garmin 15 series GPS board, a Digi ZigBee RF deck and a small AVR processor. The entire package will run for a couple of days from a single alkaline 9 volt battery at normal room temp. The exterior package is constructed from ½ inch foam core board and has an internal volume of approximately 36 cubic inches. My experience is that I can heat the battery to 90 degrees, seal it in, fly it and after recovery about 4 hours later the battery is still more than a little warm to touch.
>
> /s/Stephen Meer, K0SCC
> EOSS
>

7970. Re: [GPSL] Re: Payload box construction for high altitude flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 19:46:41 UTC
From: Meer, Stephen
Topic: 7946 Message: 7970

A good old fashioned heating pad like you would use on an injured body part. The one I have on it's lowest setting sets at about 100 deg F so I wrap the battery in it for a bit and then take the battery out and measure the temp with an IR thermometer. I do this a couple of times to make sure that the entire mass of the battery is at temp.

Obviously this required 110 VAC being available at the point you plan to do final prep and packing of the flight package. I use an AC inverter in my vehicle or a wall plug at the ground station when available.

/s/SM2. K0SCC

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Sent: Thu Aug 05 09:58:17 2010
Subject: [GPSL] Re: Payload box construction for high altitude flight

What do you heat the batteries with?

-Ron K6RPT

--- In GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>, "Meer, Stephen" <smeer@...> wrote:
>
> A trick I use with the K0SCC payloads is to heat the batteries in a standard heating pad to 90 degrees F prior to sealing them into the payload envelope. The thermal mass does wonders for keeping the temp up.
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>
> /s/Stephen Meer, K0SCC
> EOSS
>

7971. Re: [GPSL] GPSL Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 19:48:04 UTC
From: HarryM
Topic: 198 Message: 7971

I've posted my GPSL photos.

http://picasaweb.google.com/116965573890578169156/GPSL2010KC5TRB#

73 Harry KC5TRB

7972. Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 21:31:28 UTC
From: Pete Lilja
Topic: 7972 Message: 7972

Today my buddy Greg, W0GRB, and I made some last minute plans to launch a HAB from west of Britt, Iowa.

I drove the hour or so to Greg's house and we loaded up my car with the needed supplies, hardware, gas and 'stuff' needed to fly. The location chosen is at a friend of Greg's agricultural tire and repair / welding shop just west of Britt on Hwy 18 in north central Iowa. It's a great spot as it's wide open and has a large building to protect us from the wind. That, and the flight prediction showed the landing spot about 15 miles from my house which made it easier for me on the way home.

We got all of our flight equipment turned on, tested and loaded in to the payload box. Despite my admonishing him many times not to use the 50lb Spider Wire fishing line to tie between the balloon and the parachute Greg insisted. Spider Wire has little stretch, can break and it is very abrasive. Greg had used this line on two previous flights with success but the last time the abrasive Spider Wire cut the meaty part of the outside of his palm which really hurt, I'm sure. To counter that this time he made a slick little dog-leash hasp thing with a wrist strap to slide down the line line to the 'chute as the balloon went up just prior to release. We got the balloon filled even though we did have to fight some wind. A double check on the radios and cameras was a 'Go' so Greg snapped his little dog-leash hasp doohickey on the line and let the balloon climb. Just as he got to the end of the line and the top of the 'chute the line snapped!

Yeow! The filled balloon took off like a shot and climbed out rather quickly. We both stood with our mouths agape at the sight! I looked at him and he me when he immediately said "Don't say nothing." We'd never lost a balloon before and had even had this one safety tied to the ground.

Well, as luck would have it I brought along a spare 1200 gram balloon "just in case." I asked Greg how much gas was left in the helium tank and he said "I dunno" and "I'll ask if they have a gauge in the shop." A few minutes later he came back with the gauge and said that they had a tank of helium, too, if we needed more. My thoughts were "Great!" we can fly. Since we only had 500 lbs. in the first tank Greg went and got the second. I tied some *nylon cord* to the parachute and inserted a machined PVC bung plug we use for filling and tying of to the payload. These plugs have worked really well on previous flights. I was a happy HABer. What are the odds of flying from a place where you had just lost a balloon that has a tank of gas available to use? Amazing.

By now the winds had pick up and maybe shifted a bit exposing our nice sheltered area a little more. But we quickly got to work and filled the second balloon. I was thinking we were getting to the point of stopping the fill to check its lift against a jug of water to make sure we'd have a good

ascent rate with a proper amount of lift. I was holding the bung / filll hose in my right hand and had my left hand around the thick latex of the balloon's neck. I'd been fighting the increasing wind and controlling the balloon with my left had. A sudden wind gust came up and, I think, twisted the balloon's neck closed as I squeezed putting a death grip on the neck of the balloon with my left hand. Not seeing what was happening Greg kept the gas flowing. Before I knew it and almost instantly the thick, latex neck of the balloon expanded like a 10" diameter sausage about 3 feet long! Then "BANG!" and the bung-plug blew out the end and my former death grip was now useless. The second balloon floated away! TWO BALLOONS LOST for one attempted flight!

I ripped off my latex gloves, uttered a few unmentionables and walked a few paces away mouth again agape at the spectacle before my eyes. I caught my breath and we both began laughing as this was just too unreal to believe.

We packed up our stuff in the car all the while discussing the events. We decided the adage that 'if it worked every time it wouldn't be as much fun' is true. And that, while simple in concept, High Altitude Ballooning is fraught with peril and challenge. It is no small feat to pull off a successful HAB flight. Over lunch we also agreed that while losing two balloons and gas in this way wasn't a pleasant experience what we did lose were the expendables of a flight anyway. All of the reusable gear we still had in hand.

As is often the case we learned a few things from these mistakes. Primarily for me is that wind sucks (or blows, depends on your perspective). Having a back-up balloon isn't always a good thing! You need gas too! Launching from a shop that has 'extra' gas is a good thing! I hope Greg learned Spider Wire is for fishing and not HABing.

No real harm done with this 'flight.' I suppose it could happen to anyone. I just want it to be someone else next time!

After all of this we did release a 100 g pilot balloon with a small, plastic Coke bottle with an information card inside. Maybe someone will find it and call.

I paid the shop for the gas we used and we headed home...slightly embarrassed but with plans to get some more balloons and lifting gas.

I hope your day is a good one!

Pete
KC0GPB

7973. Re: [GPSL] GPSL Photos

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 21:55:45 UTC
From: Mark Garrett
Topic: 198 Message: 7973

Great Photos Harry

Mark Garrett, KA9SZX

From: HarryM <hhm_74115@...>
To: KNSP@yahoogroups.com; GPSL@yahoogroups.com
Sent: Thu, August 5, 2010 2:48:04 PM
Subject: Re: [GPSL] GPSL Photos

I've posted my GPSL photos.

http://picasaweb. google.com/ 1169655738905781 69156/GPSL2010KC 5TRB#

73 Harry KC5TRB

7974. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 23:42:01 UTC
From: Mike Manes
Topic: 7972 Message: 7974

Hi Pete,

Anyone of who's claimed to have executed a perfect flight must have
found a mess of that funny weed ...

Lessons learned (and as often forgotten):

1. 50 lb tensile strength does NOT equal 50 lb impact strength.

2. Use screw-type hose clamps to secure a 1200 gm neck to the fill rig.

3. Keep the fill rate real gentle until the balloon lifts itself off
the deck firmly, and let the guy on the valve watch for twists.

The good news is that you didn't lose your payloads :=)

On our 154th flight, EOSS had a neck blowout during fill. The fill tube
was only inserted a few inches, and the balloon handler took a grip just
above the top of the fill tube - a bit too tight of a grip, turns out.
Fortunately, the handler still had a grip (talk about keeping one's cool!),
and we were able to execute a re-insertion into the remaining neck to complete
the fill and flight.

73 de Mike W5VSI

On 8/5/2010 15:31, Pete Lilja wrote:
>
>
> Today my buddy Greg, W0GRB, and I made some last minute plans to launch a HAB
> from west of Britt, Iowa.
>
> I drove the hour or so to Greg's house and we loaded up my car with the needed
> supplies, hardware, gas and 'stuff' needed to fly. The location chosen is at
> a friend of Greg's agricultural tire and repair / welding shop just west of
> Britt on Hwy 18 in north central Iowa. It's a great spot as it's wide open
> and has a large building to protect us from the wind. That, and the flight
> prediction showed the landing spot about 15 miles from my house which made it
> easier for me on the way home.
>
> We got all of our flight equipment turned on, tested and loaded in to the
> payload box. Despite my admonishing him many times not to use the 50lb Spider
> Wire fishing line to tie between the balloon and the parachute Greg insisted.
> Spider Wire has little stretch, can break and it is very abrasive. Greg had
> used this line on two previous flights with success but the last time the
> abrasive Spider Wire cut the meaty part of the outside of his palm which
> really hurt, I'm sure. To counter that this time he made a slick little
> dog-leash hasp thing with a wrist strap to slide down the line line to the

> 'chute as the balloon went up just prior to release. We got the balloon
> filled even though we did have to fight some wind. A double check on the
> radios and cameras was a 'Go' so Greg snapped his little dog-leash hasp
> doohickey on the line and let the balloon climb. Just as he got to the end of
> the line and the top of the 'chute the line snapped!
>
> Yeow! The filled balloon took off like a shot and climbed out rather
> quickly. We both stood with our mouths agape at the sight! I looked at him
> and he me when he immediately said "Don't say nothing." We'd never lost a
> balloon before and had even had this one safety tied to the ground.
>
> Well, as luck would have it I brought along a spare 1200 gram balloon "just in
> case." I asked Greg how much gas was left in the helium tank and he said "I
> dunno" and "I'll ask if they have a gauge in the shop." A few minutes later
> he came back with the gauge and said that they had a tank of helium, too, if
> we needed more. My thoughts were "Great!" we can fly. Since we only had 500
> lbs. in the first tank Greg went and got the second. I tied some *nylon cord*
> to the parachute and inserted a machined PVC bung plug we use for filling and
> tying of to the payload. These plugs have worked really well on previous
> flights. I was a happy HABer. What are the odds of flying from a place where
> you had just lost a balloon that has a tank of gas available to use? Amazing.
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> By now the winds had pick up and maybe shifted a bit exposing our nice
> sheltered area a little more. But we quickly got to work and filled the
> second balloon. I was thinking we were getting to the point of stopping the
> fill to check its lift against a jug of water to make sure we'd have a good
> ascent rate with a proper amount of lift. I was holding the bung / filll hose
> in my right hand and had my left hand around the thick latex of the balloon's
> neck. I'd been fighting the increasing wind and controlling the balloon with
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> neck closed as I squeezed putting a death grip on the neck of the balloon with
> my left hand. Not seeing what was happening Greg kept the gas flowing.
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> expanded like a 10" diameter sausage about 3 feet long! Then "BANG!" and the
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> paces away mouth again agape at the spectacle before my eyes. I caught my
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> We packed up our stuff in the car all the while discussing the events. We
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> flight. Over lunch we also agreed that while losing two balloons and gas in
> this way wasn't a pleasant experience what we did lose were the expendables of
> a flight anyway. All of the reusable gear we still had in hand.
>
> As is often the case we learned a few things from these mistakes. Primarily

> for me is that wind sucks (or blows, depends on your perspective). Having a
> back-up balloon isn't always a good thing! You need gas too! Launching from
> a shop that has 'extra' gas is a good thing! I hope Greg learned Spider Wire
> is for fishing and not HABing.
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> No real harm done with this 'flight.' I suppose it could happen to anyone. I
> just want it to be someone else next time!
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> After all of this we did release a 100 g pilot balloon with a small, plastic
> Coke bottle with an information card inside. Maybe someone will find it and call.
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> I paid the shop for the gas we used and we headed home...slightly embarrassed
> but with plans to get some more balloons and lifting gas.
>
> I hope your day is a good one!
>
> Pete
> KC0GPB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7975. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-05 23:54:32 UTC
From: Zack Clobes
Topic: 7972 Message: 7975

We've used a combination of 50# mono and 50# spider wire in parallel for a good 10+ flights now, with no trouble. The first couple we used just 50# mono, but for some reason it got brittle on us one morning where I could literally crumble it in my hands (we lost a balloon to it). Never before and never again have we seen that behavior, even off the same spool. The only thing I can think of was a manufacturing defect at one spot.

After losing the balloon, we started flying a double loop with the mono holding the weight, and the spider wire just in case, although both links have always come back intact.

We have also started using kite string lanyards run through a ring at the neck of the balloon. That lets us ease the weight of the packages onto the load line without a lot of jerking around. That's worked great except when 1) the lanyard is allowed to wrap around the nylon load line and 2) the lanyard holders aren't equipped with scissors for cutting lose (just in case).

For the record, I'm not sure that we've ever flown more than about 7lbs of payload.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Thu, Aug 5, 2010 at 6:42 PM, Mike Manes <mrmanes@gmail.com> wrote:

>
>
> Hi Pete,
>
> Anyone of who's claimed to have executed a perfect flight must have
> found a mess of that funny weed ...
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> Lessons learned (and as often forgotten):
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> 1. 50 lb tensile strength does NOT equal 50 lb impact strength.
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> 2. Use screw-type hose clamps to secure a 1200 gm neck to the fill rig.
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> 3. Keep the fill rate real gentle until the balloon lifts itself off
> the deck firmly, and let the guy on the valve watch for twists.
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> The good news is that you didn't lose your payloads :=)
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> On our 154th flight, EOSS had a neck blowout during fill. The fill tube

> was only inserted a few inches, and the balloon handler took a grip just
> above the top of the fill tube - a bit too tight of a grip, turns out.
> Fortunately, the handler still had a grip (talk about keeping one's cool!),
> and we were able to execute a re-insertion into the remaining neck to
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> > I drove the hour or so to Greg's house and we loaded up my car with the
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> > Britt on Hwy 18 in north central Iowa. It's a great spot as it's wide
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> > and has a large building to protect us from the wind. That, and the
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> > 'chute as the balloon went up just prior to release. We got the balloon
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> > radios and cameras was a 'Go' so Greg snapped his little dog-leash hasp
> > doohickey on the line and let the balloon climb. Just as he got to the
> end of
> > the line and the top of the 'chute the line snapped!
> >
> > Yeow! The filled balloon took off like a shot and climbed out rather

> > quickly. We both stood with our mouths agape at the sight! I looked at
> him
> > and he me when he immediately said "Don't say nothing." We'd never lost a
> > balloon before and had even had this one safety tied to the ground.
> >
> > Well, as luck would have it I brought along a spare 1200 gram balloon
> "just in
> > case." I asked Greg how much gas was left in the helium tank and he said
> "I
> > dunno" and "I'll ask if they have a gauge in the shop." A few minutes
> later
> > he came back with the gauge and said that they had a tank of helium, too,
> if
> > we needed more. My thoughts were "Great!" we can fly. Since we only had
> 500
> > lbs. in the first tank Greg went and got the second. I tied some *nylon
> cord*
> > to the parachute and inserted a machined PVC bung plug we use for filling
> and
> > tying of to the payload. These plugs have worked really well on previous
> > flights. I was a happy HABer. What are the odds of flying from a place
> where
> > you had just lost a balloon that has a tank of gas available to use?
> Amazing.
> >
> > By now the winds had pick up and maybe shifted a bit exposing our nice
> > sheltered area a little more. But we quickly got to work and filled the
> > second balloon. I was thinking we were getting to the point of stopping
> the
> > fill to check its lift against a jug of water to make sure we'd have a
> good
> > ascent rate with a proper amount of lift. I was holding the bung / filll
> hose
> > in my right hand and had my left hand around the thick latex of the
> balloon's
> > neck. I'd been fighting the increasing wind and controlling the balloon
> with
> > my left had. A sudden wind gust came up and, I think, twisted the
> balloon's
> > neck closed as I squeezed putting a death grip on the neck of the balloon
> with
> > my left hand. Not seeing what was happening Greg kept the gas flowing.
> > Before I knew it and almost instantly the thick, latex neck of the
> balloon
> > expanded like a 10" diameter sausage about 3 feet long! Then "BANG!" and
> the
> > bung-plug blew out the end and my former death grip was now useless. The
> > second balloon floated away! TWO BALLOONS LOST for one attempted flight!
> >
> > I ripped off my latex gloves, uttered a few unmentionables and walked a

> few
> > paces away mouth again agape at the spectacle before my eyes. I caught my
> > breath and we both began laughing as this was just too unreal to believe.
> >
> > We packed up our stuff in the car all the while discussing the events. We
> > decided the adage that 'if it worked every time it wouldn't be as much
> fun' is
> > true. And that, while simple in concept, High Altitude Ballooning is
> fraught
> > with peril and challenge. It is no small feat to pull off a successful
> HAB
> > flight. Over lunch we also agreed that while losing two balloons and gas
> in
> > this way wasn't a pleasant experience what we did lose were the
> expendables of
> > a flight anyway. All of the reusable gear we still had in hand.
> >
> > As is often the case we learned a few things from these mistakes.
> Primarily
> > for me is that wind sucks (or blows, depends on your perspective). Having
> a
> > back-up balloon isn't always a good thing! You need gas too! Launching
> from
> > a shop that has 'extra' gas is a good thing! I hope Greg learned Spider
> Wire
> > is for fishing and not HABing.
> >
> > No real harm done with this 'flight.' I suppose it could happen to
> anyone. I
> > just want it to be someone else next time!
> >
> > After all of this we did release a 100 g pilot balloon with a small,
> plastic
> > Coke bottle with an information card inside. Maybe someone will find it
> and call.
> >
> > I paid the shop for the gas we used and we headed home...slightly
> embarrassed
> > but with plans to get some more balloons and lifting gas.
> >
> > I hope your day is a good one!
> >
> > Pete
> > KC0GPB
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899

> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

7976. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 01:10:04 UTC
From: Mark Conner
Topic: 7972 Message: 7976

This story reminded me of one NSTAR launch attempt in 2004, which had the "neck sausage" and premature flight too. I uploaded the video to YouTube (rated PG):

http://www.youtube.com/watch?v=FE8SPugjtwM

Not our first loss either - we've had two other balloon launches unencumbered by those pesky payloads.

73 de Mark N9XTN

On Thu, Aug 5, 2010 at 16:31, Pete Lilja <plilja@...> wrote:

>
> A sudden wind gust came up and, I think, twisted the balloon's neck closed
> as I squeezed putting a death grip on the neck of the balloon with my left
> hand. Not seeing what was happening Greg kept the gas flowing. Before I
> knew it and almost instantly the thick, latex neck of the balloon expanded
> like a 10" diameter sausage about 3 feet long! Then "BANG!" and the
> bung-plug blew out the end and my former death grip was now useless.
>

7977. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 01:11:56 UTC
From: Pete Lilja
Topic: 7972 Message: 7977

I told my buddy many, many times about that 50# impact strength being a rather nebulous thing and just use some nylon cord. He'd had two successful flights prior using the Spider Wire so he was thinking it's the cat's meow. He (like me, I suppose) can be hard-headed about things and since the payload was carrying his radios, cameras and GPS as well as helium he'd purchased I can only push so far.

And, yep, all that was really lost was a little pride and the expendables in a balloon flight.

Pete

On Thu, Aug 5, 2010 at 6:42 PM, Mike Manes <mrmanes@...> wrote:

>
>
> Hi Pete,
>
> Anyone of who's claimed to have executed a perfect flight must have
> found a mess of that funny weed ...
>
> Lessons learned (and as often forgotten):
>
> 1. 50 lb tensile strength does NOT equal 50 lb impact strength.
>
> 2. Use screw-type hose clamps to secure a 1200 gm neck to the fill rig.
>
> 3. Keep the fill rate real gentle until the balloon lifts itself off
> the deck firmly, and let the guy on the valve watch for twists.
>
> The good news is that you didn't lose your payloads :=)
>
> On our 154th flight, EOSS had a neck blowout during fill. The fill tube
> was only inserted a few inches, and the balloon handler took a grip just
> above the top of the fill tube - a bit too tight of a grip, turns out.
> Fortunately, the handler still had a grip (talk about keeping one's cool!),
> and we were able to execute a re-insertion into the remaining neck to
> complete
> the fill and flight.
>
> 73 de Mike W5VSI
>
>
> On 8/5/2010 15:31, Pete Lilja wrote:
> >
> >

> > Today my buddy Greg, W0GRB, and I made some last minute plans to launch a
> HAB
> > from west of Britt, Iowa.
> >
> > I drove the hour or so to Greg's house and we loaded up my car with the
> needed
> > supplies, hardware, gas and 'stuff' needed to fly. The location chosen is
> at
> > a friend of Greg's agricultural tire and repair / welding shop just west
> of
> > Britt on Hwy 18 in north central Iowa. It's a great spot as it's wide
> open
> > and has a large building to protect us from the wind. That, and the
> flight
> > prediction showed the landing spot about 15 miles from my house which
> made it
> > easier for me on the way home.
> >
> > We got all of our flight equipment turned on, tested and loaded in to the
> > payload box. Despite my admonishing him many times not to use the 50lb
> Spider
> > Wire fishing line to tie between the balloon and the parachute Greg
> insisted.
> > Spider Wire has little stretch, can break and it is very abrasive. Greg
> had
> > used this line on two previous flights with success but the last time the
> > abrasive Spider Wire cut the meaty part of the outside of his palm which
> > really hurt, I'm sure. To counter that this time he made a slick little
> > dog-leash hasp thing with a wrist strap to slide down the line line to
> the
> > 'chute as the balloon went up just prior to release. We got the balloon
> > filled even though we did have to fight some wind. A double check on the
> > radios and cameras was a 'Go' so Greg snapped his little dog-leash hasp
> > doohickey on the line and let the balloon climb. Just as he got to the
> end of
> > the line and the top of the 'chute the line snapped!
> >
> > Yeow! The filled balloon took off like a shot and climbed out rather
> > quickly. We both stood with our mouths agape at the sight! I looked at
> him
> > and he me when he immediately said "Don't say nothing." We'd never lost a
> > balloon before and had even had this one safety tied to the ground.
> >
> > Well, as luck would have it I brought along a spare 1200 gram balloon
> "just in
> > case." I asked Greg how much gas was left in the helium tank and he said
> "I
> > dunno" and "I'll ask if they have a gauge in the shop." A few minutes
> later
> > he came back with the gauge and said that they had a tank of helium, too,

> if
> > we needed more. My thoughts were "Great!" we can fly. Since we only had
> 500
> > lbs. in the first tank Greg went and got the second. I tied some *nylon
> cord*
> > to the parachute and inserted a machined PVC bung plug we use for filling
> and
> > tying of to the payload. These plugs have worked really well on previous
> > flights. I was a happy HABer. What are the odds of flying from a place
> where
> > you had just lost a balloon that has a tank of gas available to use?
> Amazing.
> >
> > By now the winds had pick up and maybe shifted a bit exposing our nice
> > sheltered area a little more. But we quickly got to work and filled the
> > second balloon. I was thinking we were getting to the point of stopping
> the
> > fill to check its lift against a jug of water to make sure we'd have a
> good
> > ascent rate with a proper amount of lift. I was holding the bung / filll
> hose
> > in my right hand and had my left hand around the thick latex of the
> balloon's
> > neck. I'd been fighting the increasing wind and controlling the balloon
> with
> > my left had. A sudden wind gust came up and, I think, twisted the
> balloon's
> > neck closed as I squeezed putting a death grip on the neck of the balloon
> with
> > my left hand. Not seeing what was happening Greg kept the gas flowing.
> > Before I knew it and almost instantly the thick, latex neck of the
> balloon
> > expanded like a 10" diameter sausage about 3 feet long! Then "BANG!" and
> the
> > bung-plug blew out the end and my former death grip was now useless. The
> > second balloon floated away! TWO BALLOONS LOST for one attempted flight!
> >
> > I ripped off my latex gloves, uttered a few unmentionables and walked a
> few
> > paces away mouth again agape at the spectacle before my eyes. I caught my
> > breath and we both began laughing as this was just too unreal to believe.
> >
> > We packed up our stuff in the car all the while discussing the events. We
> > decided the adage that 'if it worked every time it wouldn't be as much
> fun' is
> > true. And that, while simple in concept, High Altitude Ballooning is
> fraught
> > with peril and challenge. It is no small feat to pull off a successful
> HAB
> > flight. Over lunch we also agreed that while losing two balloons and gas

> in
> > this way wasn't a pleasant experience what we did lose were the
> expendables of
> > a flight anyway. All of the reusable gear we still had in hand.
> >
> > As is often the case we learned a few things from these mistakes.
> Primarily
> > for me is that wind sucks (or blows, depends on your perspective). Having
> a
> > back-up balloon isn't always a good thing! You need gas too! Launching
> from
> > a shop that has 'extra' gas is a good thing! I hope Greg learned Spider
> Wire
> > is for fishing and not HABing.
> >
> > No real harm done with this 'flight.' I suppose it could happen to
> anyone. I
> > just want it to be someone else next time!
> >
> > After all of this we did release a 100 g pilot balloon with a small,
> plastic
> > Coke bottle with an information card inside. Maybe someone will find it
> and call.
> >
> > I paid the shop for the gas we used and we headed home...slightly
> embarrassed
> > but with plans to get some more balloons and lifting gas.
> >
> > I hope your day is a good one!
> >
> > Pete
> > KC0GPB
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

7978. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 01:17:30 UTC
From: Pete Lilja
Topic: 7972 Message: 7978

Oh, man, that was very similar to what happened to us today. Sorry, but I
am laughing as I know the feeling of that as it's fresh in my mind!

Thanks for posting, Mark.

Pete
KC0GPB

On Thu, Aug 5, 2010 at 8:10 PM, Mark Conner <mconner1@...> wrote:

>
>
> This story reminded me of one NSTAR launch attempt in 2004, which had the
> "neck sausage" and premature flight too. I uploaded the video to YouTube
> (rated PG):
>
> http://www.youtube.com/watch?v=FE8SPugjtwM
>
> Not our first loss either - we've had two other balloon launches
> unencumbered by those pesky payloads.
>
> 73 de Mark N9XTN
>
>
> On Thu, Aug 5, 2010 at 16:31, Pete Lilja <plilja@...> wrote:
>
>>
>> A sudden wind gust came up and, I think, twisted the balloon's neck
>> closed as I squeezed putting a death grip on the neck of the balloon with my
>> left hand. Not seeing what was happening Greg kept the gas flowing. Before
>> I knew it and almost instantly the thick, latex neck of the balloon expanded
>> like a 10" diameter sausage about 3 feet long! Then "BANG!" and the
>> bung-plug blew out the end and my former death grip was now useless.
>>
>
>
>

7979. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 02:06:43 UTC
From: Joe
Topic: 7972 Message: 7979
Attachments: 1 described; binary payloads are missing from this source WARC

NSS-1,,, err well NSS-0 was a similar event. except it was a bad knot
between the balloon line and the top of the parachute.

the balloon was going up and suddenly the parachute was on my head.

Never used those recommended knots ever again.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/5/2010 8:10 PM, Mark Conner wrote:
>
>
> This story reminded me of one NSTAR launch attempt in 2004, which had
> the "neck sausage" and premature flight too. I uploaded the video to
> YouTube (rated PG):
>
> http://www.youtube.com/watch?v=FE8SPugjtwM
>
> Not our first loss either - we've had two other balloon launches
> unencumbered by those pesky payloads.
>
> 73 de Mark N9XTN
>
> On Thu, Aug 5, 2010 at 16:31, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
> A sudden wind gust came up and, I think, twisted the balloon's
> neck closed as I squeezed putting a death grip on the neck of the
> balloon with my left hand. Not seeing what was happening Greg
> kept the gas flowing. Before I knew it and almost instantly the
> thick, latex neck of the balloon expanded like a 10" diameter
> sausage about 3 feet long! Then "BANG!" and the bung-plug blew
> out the end and my former death grip was now useless.
>
>
>
>
>

7980. Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 02:36:51 UTC
From: Mike Manes
Topic: 7972 Message: 7980

Criminy Dutch! With that much wind in the AM, I'a gone back to bed and
flown another day ...

What's amazing is that the neck bubbled out several times without blowing
out. Not sure what happened to "unencumber" it, though. Did the neck just
break below the ring? (PG, indeed :=P).

73 de Mike W5VSI

On 8/5/2010 19:10, Mark Conner wrote:
>
>
> This story reminded me of one NSTAR launch attempt in 2004, which had the
> "neck sausage" and premature flight too. I uploaded the video to YouTube
> (rated PG):
>
> http://www.youtube.com/watch?v=FE8SPugjtwM
>
> Not our first loss either - we've had two other balloon launches unencumbered
> by those pesky payloads.
>
> 73 de Mark N9XTN
>
> On Thu, Aug 5, 2010 at 16:31, Pete Lilja <plilja@...
> <mailto:plilja@...>> wrote:
>
>
> A sudden wind gust came up and, I think, twisted the balloon's neck
> closed as I squeezed putting a death grip on the neck of the balloon with
> my left hand. Not seeing what was happening Greg kept the gas flowing.
> Before I knew it and almost instantly the thick, latex neck of the balloon
> expanded like a 10" diameter sausage about 3 feet long! Then "BANG!" and
> the bung-plug blew out the end and my former death grip was now useless.
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>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7981. Re: [Balloon_Sked] Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 02:39:17 UTC
From: Mike Manes
Topic: 7972 Message: 7981

Oh, so you don't trust your granny's marlinspike seamanship, eh?

On 8/5/2010 20:06, Joe wrote:
> NSS-1,,, err well NSS-0 was a similar event. except it was a bad knot
> between the balloon line and the top of the parachute.
>
> the balloon was going up and suddenly the parachute was on my head.
>
> Never used those recommended knots ever again.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/5/2010 8:10 PM, Mark Conner wrote:
>> This story reminded me of one NSTAR launch attempt in 2004, which had the
>> "neck sausage" and premature flight too. I uploaded the video to YouTube
>> (rated PG):
>>
>> http://www.youtube.com/watch?v=FE8SPugjtwM
>>
>> Not our first loss either - we've had two other balloon launches
>> unencumbered by those pesky payloads.
>>
>> 73 de Mark N9XTN
>>
>> On Thu, Aug 5, 2010 at 16:31, Pete Lilja <plilja@...
>> <mailto:plilja@...>> wrote:
>>
>>
>> A sudden wind gust came up and, I think, twisted the balloon's neck
>> closed as I squeezed putting a death grip on the neck of the balloon
>> with my left hand. Not seeing what was happening Greg kept the gas
>> flowing. Before I knew it and almost instantly the thick, latex neck of
>> the balloon expanded like a 10" diameter sausage about 3 feet long! Then
>> "BANG!" and the bung-plug blew out the end and my former death grip was
>> now useless.
>>
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

7982. Re: [Balloon_Sked] Re: [GPSL] Iowa Balloon Flight of 8/5/10 (or not)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 03:04:31 UTC
From: Joe
Topic: 7972 Message: 7982
Attachments: 1 described; binary payloads are missing from this source WARC

I had some "Rope" person and a highly respected kite manufacturer
recommend this one knot.

Obviously it did not work very well.

I developed this one knot never found it online anyplace, or even it it
has a name. but i can even tie it with one hand while holding the
balloon in the other. and it's never ever failed me. matter of fact
the harder you pull on the knot the tighter it gets.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/5/2010 9:39 PM, Mike Manes wrote:
> Oh, so you don't trust your granny's marlinspike seamanship, eh?
>
> On 8/5/2010 20:06, Joe wrote:
>
>> NSS-1,,, err well NSS-0 was a similar event. except it was a bad knot
>> between the balloon line and the top of the parachute.
>>
>> the balloon was going up and suddenly the parachute was on my head.
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>> Never used those recommended knots ever again.
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>>
>> On 8/5/2010 8:10 PM, Mark Conner wrote:
>>
>>> This story reminded me of one NSTAR launch attempt in 2004, which had the
>>> "neck sausage" and premature flight too. I uploaded the video to YouTube
>>> (rated PG):
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>>> http://www.youtube.com/watch?v=FE8SPugjtwM
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>>> Not our first loss either - we've had two other balloon launches

>>> unencumbered by those pesky payloads.
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>>> 73 de Mark N9XTN
>>>
>>> On Thu, Aug 5, 2010 at 16:31, Pete Lilja<plilja@...
>>> <mailto:plilja@...>> wrote:
>>>
>>>
>>> A sudden wind gust came up and, I think, twisted the balloon's neck
>>> closed as I squeezed putting a death grip on the neck of the balloon
>>> with my left hand. Not seeing what was happening Greg kept the gas
>>> flowing. Before I knew it and almost instantly the thick, latex neck of
>>> the balloon expanded like a 10" diameter sausage about 3 feet long! Then
>>> "BANG!" and the bung-plug blew out the end and my former death grip was
>>> now useless.
>>>
>>>
>>>
>

7983. Spaceport Indiana balloon Friday at 11 am EDT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 06:22:16 UTC
From: wb8elk@aol.com
Topic: 7983 Message: 7983

11:00 am EDT Friday Aug 6th

APRS on 144.39: WB8ELK-10 and WB8ELK-11
DominoEX22 on 144.34 : WB8ELK

location: Bakalar Airport (BAK) Columbus, IN
39.27
-85.90

Streaming video of launch starting around 10:30 am EDT: www.batc.tv select Members Streams....then select WB8ELK

- Bill WB8ELK

7984. Heaviest ARHAB Payloads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 14:23:38 UTC
From: L. Paul Verhage
Topic: 7984 Message: 7984

Most of use fly within the 12 pound limit so we don't need to file for a wavier.

However, I'd like to know how heavy we do get. What's the other end of the spectrum look like in regards to weight and altitude.

Thanks.

PS, I was reading a COSPAR report written by a Japnese company about their development of thin, lightweight plastic films. They built a balloon that reached 170,000 feet several years ago. Small payload and large balloon.

I see that some of the ZPB are several million cubic feet in volume.

--
Onwards and Upwards,
Paul

7985. Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 14:50:18 UTC
From: Pete Lilja
Topic: 7985 Message: 7985

Some of you did and many of you probably did not read my long monologue on our two lost errant balloons yesterday. That's really neither here nor there but is prompting this question...

...helium regulators: the regulator we use is simply a guy on the tank with his hand on the valve regulating flow. After that 'sausage neck' experience yesterday I'm now wondering about a regulator. How do they work? Do they regulate pressure? Flow? Both? Or is one a product of the other? I'm really only practically familiar with demand type self contained breathing apparatus regulators and now that I think about it I'm not so sure how really they do regulate.

Also - where do you purchase a helium regulator? I imagine my gas supplier would get a premium for one.

Wasn't there some recent discussion about adaptors for hydrogen to helium regulators as well?

After losing a $65 balloon yesterday due to too much pressure and / or flow maybe the expense of some proper equipment is in order.

Pete
KC0GPB

7986. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 14:56:26 UTC
From: L. Paul Verhage
Topic: 7985 Message: 7986

The regualtor I use is inexpensive. It doesn't regulate the pressure delivered to the balloon, it just indicates the pressure in the tank. I still use the valve on the tank to control the flow of helium.

Check my online book (free at Parallax) for information on making a filler.

Paul

On Fri, Aug 6, 2010 at 9:50 AM, Pete Lilja <plilja@...> wrote:

>
>
> Some of you did and many of you probably did not read my long monologue on
> our two lost errant balloons yesterday. That's really neither here nor
> there but is prompting this question...
>
> ...helium regulators: the regulator we use is simply a guy on the tank
> with his hand on the valve regulating flow. After that 'sausage neck'
> experience yesterday I'm now wondering about a regulator. How do they
> work? Do they regulate pressure? Flow? Both? Or is one a product of the
> other? I'm really only practically familiar with demand type self contained
> breathing apparatus regulators and now that I think about it I'm not so sure
> how really they do regulate.
>
> Also - where do you purchase a helium regulator? I imagine my gas supplier
> would get a premium for one.
>
> Wasn't there some recent discussion about adaptors for hydrogen to helium
> regulators as well?
>
> After losing a $65 balloon yesterday due to too much pressure and / or flow
> maybe the expense of some proper equipment is in order.
>
> Pete
> KC0GPB
>
>
>

--
Onwards and Upwards,
Paul

7987. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 14:57:48 UTC
From: Joe
Topic: 7985 Message: 7987
Attachments: 1 described; binary payloads are missing from this source WARC

We run H2, and fill with a very low pressure, usually 5 PSI max.

Now will 5 PSI make the situation you had? I don't know.

But yes pressure and flow are all related. Higher pressure faster flow.

And the regulator does indeed regulate the pressure, so in our setups,
if we were to kink the neck and built up 5 PSI the flow would stop.

Now what does 5 PSI in that thick neck section look like I have no clue.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/6/2010 9:50 AM, Pete Lilja wrote:
>
>
> Some of you did and many of you probably did not read my long
> monologue on our two lost errant balloons yesterday. That's really
> neither here nor there but is prompting this question...
>
> ...helium regulators: the regulator we use is simply a guy on the
> tank with his hand on the valve regulating flow. After that 'sausage
> neck' experience yesterday I'm now wondering about a regulator. How
> do they work? Do they regulate pressure? Flow? Both? Or is one a
> product of the other? I'm really only practically familiar with
> demand type self contained breathing apparatus regulators and now that
> I think about it I'm not so sure how really they do regulate.
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> Also - where do you purchase a helium regulator? I imagine my gas
> supplier would get a premium for one.
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> Wasn't there some recent discussion about adaptors for hydrogen to
> helium regulators as well?
>
> After losing a $65 balloon yesterday due to too much pressure and / or
> flow maybe the expense of some proper equipment is in order.
>
> Pete
> KC0GPB
>
>

>

7988. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 15:01:20 UTC
From: Mark Conner
Topic: 7985 Message: 7988

I use an oxygen regulator, got it at my gas supplier. Probably overkill, it's a two-stage regulator.

You could adapt a standard helium party balloon filler to the same purpose. The main thing I like is a reading of the tank pressure, so I can approximate the volume of helium I'm using. Knowing a standard T cylinder holds 290 cu ft at 2600 psi, you can work out the cubic footage vented by the pressure reduction. The fitting are standard pipe fittings and you should easily be able to adapt to barbs for an oxygen fill hose.

You may be best off getting the party balloon filler on eBay (can be had for ~$30) and taking it to your gas or welding supplier and saying "I need fittings to adapt this to a length of oxygen hose".

73 de Mark N9XTN

On Fri, Aug 6, 2010 at 09:50, Pete Lilja <plilja@...> wrote:

>
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> Some of you did and many of you probably did not read my long monologue on
> our two lost errant balloons yesterday. That's really neither here nor
> there but is prompting this question...
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> experience yesterday I'm now wondering about a regulator. How do they
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> Also - where do you purchase a helium regulator? I imagine my gas supplier
> would get a premium for one.
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> Wasn't there some recent discussion about adaptors for hydrogen to helium
> regulators as well?
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> After losing a $65 balloon yesterday due to too much pressure and / or flow
> maybe the expense of some proper equipment is in order.
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> Pete
> KC0GPB
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>

7989. Re: Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 15:26:56 UTC
From: zclobes@gmail.com
Topic: 7985 Message: 7989

We don't use any kind of regulator - just tap straight off the bottle with a hose.

EOSS had a neck vs. helium episode at GPSL. I was about a hundred feet away and thought it sounded like a gun shot. Can anyone from there give us some input?

I was wanting to ask anyway, for those using Hydrogen, is there any particular reason that you use a regulator on that side above and beyond why you'd use it on the Helium side?

Zack

On Aug 6, 2010 9:57am, Joe <nss@...> wrote:

> We run H2, and fill with a very low pressure, usually 5 PSI max.

> Now will 5 PSI make the situation you had? I don't know.

> But yes pressure and flow are all related. Higher pressure faster
> flow.

> And the regulator does indeed regulate the pressure, so in our setups,
> if we were to kink the neck and built up 5 PSI the flow would stop.

> Now what does 5 PSI in that thick neck section look like I have no clue.

> Joe WB9SBD

> The Original Rolling Ball
> Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

> On 8/6/2010 9:50 AM, Pete Lilja wrote:

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> nor there but is prompting this question...

> ...helium regulators: the regulator we use is simply a guy on the tank
> with his hand on the valve regulating flow. After that 'sausage neck'
> experience yesterday I'm now wondering about a regulator. How do they
> work? Do they regulate pressure? Flow? Both? Or is one a product of
> the other? I'm really only practically familiar with demand type self
> contained breathing apparatus regulators and now that I think about it
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> Also - where do you purchase a helium regulator? I imagine my gas
> supplier would get a premium for one.

> Wasn't there some recent discussion about adaptors for hydrogen to
> helium regulators as well?

> After losing a $65 balloon yesterday due to too much pressure and / or
> flow maybe the expense of some proper equipment is in order.

> Pete

> KC0GPB

7990. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 15:33:48 UTC
From: Jerry Gable
Topic: 7985 Message: 7990

I use a party balloon regulator I bought on ebay. The regulator has a 1/4 pipe fitting that has the party balloon filler on it. I took that bend valve off and added a ball valve and hose to the regulator.

The regulator output is still high enough to pop the neck but low enough you can use a standard brass ball valve on the output. I believe it is around 30PSI. I like the ball valve because in a emergency you can slam it shut in less than 1/4 turn.

Jerry

From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Fri, August 6, 2010 7:50:18 AM
Subject: [GPSL] Regulator

Some of you did and many of you probably did not read my long monologue on our two lost errant balloons yesterday. That's really neither here nor there but is prompting this question...

...helium regulators: the regulator we use is simply a guy on the tank with his hand on the valve regulating flow. After that 'sausage neck' experience yesterday I'm now wondering about a regulator. How do they work? Do they regulate pressure? Flow? Both? Or is one a product of the other? I'm really only practically familiar with demand type self contained breathing apparatus regulators and now that I think about it I'm not so sure how really they do regulate.

Also - where do you purchase a helium regulator? I imagine my gas supplier would get a premium for one.

Wasn't there some recent discussion about adaptors for hydrogen to helium regulators as well?

After losing a $65 balloon yesterday due to too much pressure and / or flow maybe the expense of some proper equipment is in order.

Pete
KC0GPB

7991. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 15:47:55 UTC
From: Joe
Topic: 7985 Message: 7991
Attachments: 1 described; binary payloads are missing from this source WARC

We had it from day one?
Joe WB9SBD

pLUS AS SLOW AS WE FILL, IT WOULD BE HARD TO CONTROL THE PRESSURE
WITHOUT IT.

oops caplock.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/6/2010 10:26 AM, zclobes@... wrote:
>
>
> We don't use any kind of regulator - just tap straight off the bottle
> with a hose.
>
> EOSS had a neck vs. helium episode at GPSL. I was about a hundred feet
> away and thought it sounded like a gun shot. Can anyone from there
> give us some input?
>
>
> I was wanting to ask anyway, for those using Hydrogen, is there any
> particular reason that you use a regulator on that side above and
> beyond why you'd use it on the Helium side?
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> Zack
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> On Aug 6, 2010 9:57am, Joe <nss@...> wrote:
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> > We run H2, and fill with a very low pressure, usually 5 PSI max.
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> > But yes pressure and flow are all related. Higher pressure faster

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> > And the regulator does indeed regulate the pressure, so in our setups,
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> > Now what does 5 PSI in that thick neck section look like I have no clue.
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> > On 8/6/2010 9:50 AM, Pete Lilja wrote:
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> > contained breathing apparatus regulators and now that I think about it
> > I'm not so sure how really they do regulate.
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> > Also - where do you purchase a helium regulator? I imagine my gas
> > supplier would get a premium for one.
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> > Wasn't there some recent discussion about adaptors for hydrogen to
> > helium regulators as well?
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> > After losing a $65 balloon yesterday due to too much pressure and / or
> > flow maybe the expense of some proper equipment is in order.
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> > Pete
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> > KC0GPB
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7992. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 15:59:58 UTC
From: Bruce Coates
Topic: 7985 Message: 7992
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Pete

We use a party balloon regulator commonly found on eBay. From there we attach a 25 foot air compressor hose and an air compressor quick connect. From there we have a very interesting series of adaptors that take us from an air compressor quick connect to a standard plumbing ball valve and finally to a PVC filler pipe. This gives the person filling the balloon control over the gas flow. It also lets use disconnect the fill hose to measure the lift. The attached picture shows the setup before we added the quick connect coupler.

73, Bruce
VE5BNC

----- Original Message -----
From: Pete Lilja
To: gpsl
Sent: Friday, August 06, 2010 8:50 AM
Subject: [GPSL] Regulator

Some of you did and many of you probably did not read my long monologue on our two lost errant balloons yesterday. That's really neither here nor there but is prompting this question...

...helium regulators: the regulator we use is simply a guy on the tank with his hand on the valve regulating flow. After that 'sausage neck' experience yesterday I'm now wondering about a regulator. How do they work? Do they regulate pressure? Flow? Both? Or is one a product of the other? I'm really only practically familiar with demand type self contained breathing apparatus regulators and now that I think about it I'm not so sure how really they do regulate.

Also - where do you purchase a helium regulator? I imagine my gas supplier would get a premium for one.

Wasn't there some recent discussion about adaptors for hydrogen to helium regulators as well?

After losing a $65 balloon yesterday due to too much pressure and / or flow maybe the expense of some proper equipment is in order.

Pete
KC0GPB

7993. Re: [GPSL] Regulator [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 16:21:33 UTC
From: Pete Lilja
Topic: 7985 Message: 7993

Thanks, Bruce. That looks like an excellent set-up. I think I'll concoct something similar.

Pete

On Fri, Aug 6, 2010 at 10:59 AM, Bruce Coates <bruce.coates@...>wrote:

> [Attachment(s) <#12a48219d29b3d20_TopText> from Bruce Coates included below]
>
> Hi Pete
>
> We use a party balloon regulator commonly found on eBay. From there we attach a 25 foot air compressor hose and an air compressor quick connect. From there we have a very interesting series of adaptors that take us from an air compressor quick connect to a standard plumbing ball valve and finally to a PVC filler pipe. This gives the person filling the balloon control over the gas flow. It also lets use disconnect the fill hose to measure the lift. The attached picture shows the setup before we added the quick connect coupler.
>
> 73, Bruce
> VE5BNC
>
>
> ----- Original Message -----
> *From:* Pete Lilja <plilja@...>
> *To:* gpsl <GPSL@yahoogroups.com>
> *Sent:* Friday, August 06, 2010 8:50 AM
> *Subject:* [GPSL] Regulator
>
>
>
> Some of you did and many of you probably did not read my long monologue on our two lost errant balloons yesterday. That's really neither here nor there but is prompting this question...
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> Wasn't there some recent discussion about adaptors for hydrogen to helium
> regulators as well?
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> After losing a $65 balloon yesterday due to too much pressure and / or flow
> maybe the expense of some proper equipment is in order.
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> Pete
> KC0GPB
>
>
>

7994. RE: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 16:46:31 UTC
From: louis@louis-vicki.com
Topic: 7985 Message: 7994

Hi Mark,

?

?? Here in AZ ANSR started with a party balloon filler connected to a length of hose. ?While it worked it was pretty slow to fill? balloon. I have since purchased 2 regulators from EBay, 1 single stage and 1? 2 stage. Both of them are the 450 series which has a high flow rate. Each regulator connected to a ball valve which connects to a common tee that has a hose running to the balloon. Using this setup we can connect to two tanks at a time and fill with one and have the second ready to go. Once the first is empty you turn the two ball valves and continue filling from the second tank. While the second tank is filling the balloon you move the 1st regulator to the third tank if needed. Using this setup we can fill a balloon to 20lbs of lift in 10-15 minutes vs. 20-30 minutes with the party balloon filler.

Louis

?

-------- Original Message --------
Subject: Re: [GPSL] Regulator
From: Mark Conner <mconner1@...>
Date: Fri, August 06, 2010 8:01 am
To: GPSL@yahoogroups.com

??

I use an oxygen regulator, got it at my gas supplier. Probably overkill, it's a two-stage regulator.

You could adapt a standard helium party balloon filler to the same purpose.? The main thing I like is a reading of the tank pressure, so I can approximate the volume of helium I'm using.? Knowing a standard T cylinder holds 290 cu ft at 2600 psi, you can work out the cubic footage vented by the pressure reduction.? The fitting are standard pipe fittings and you should easily be able to adapt to barbs for an oxygen fill hose.

You may be best off getting the party balloon filler on eBay (can be had for ~$30) and taking it to your gas or welding supplier and saying "I need fittings to adapt this to a length of oxygen hose".

73 de Mark N9XTN

On Fri, Aug 6, 2010 at 09:50, Pete Lilja <plilja@...>?wrote:

Some of you did and many of you probably did not read my long monologue on our two lost errant balloons yesterday.? That's really neither here nor there but is prompting this question...

...helium regulators:? the regulator we use is simply a guy on the tank with his hand on the valve regulating flow.? After that 'sausage neck' experience yesterday I'm now wondering about a regulator.? How do they work?? Do they regulate pressure?? Flow? Both?? Or is one a product of the other?? I'm really only practically familiar with demand type self contained breathing apparatus regulators and now that I think about it I'm not so sure how really they do regulate.

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Wasn't there some recent discussion about adaptors for hydrogen to helium regulators as well??

After losing a $65 balloon yesterday due to too much pressure and / or flow maybe the expense of some proper equipment is in order.

Pete
KC0GPB

7995. Northern Hemisphere Enlarged View

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 17:16:28 UTC
From: Mike Manes
Topic: 7995 Message: 7995

Here's a link to NOAA's space weather prediction of visible Aurora Borelais from the latest solar coronal mass ejection. I think the red arrow points towards the sun. Those of you in the northern latitudes might get an unusual eyeful

http://www.swpc.noaa.gov/pmap/pmapN.html

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7996. Re: [GPSL] Heaviest ARHAB Payloads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 18:17:31 UTC
From: Mike Manes
Topic: 7984 Message: 7996

I guess that all depends on what we mean by "we" ... ;-P. Assuming
you mean ARHAB, then EOSS has hauled up over 30 lb under a plastic
sounding balloon (U Colo "Humble" telescope on EOSS-6). Max load on
a 3000 latex was U Ky Big Blue, with a neck load of nearly 27 lb. EOSS
assisted Norm Kjome with a 250,000 cu ft ZPB flight of an 85 lb "Falconsat"
prototype from the USAFA in the 90's.

Earth air density drops roughly an order of magnitude (factor of 10) for
each 50K' of altitude. So getting to 150K' means that the balloon volume
must expand 1000 times greater than it was on the deck. The envelope
that you launch has got to contain that volume - so a bag that carries you
to 170K' gets pretty heavy, and you have to fill it with enough gas to
lift that envelope, plus any payload plus some to achieve a meaningful
ascent rate. The bulk of the gross weight is in the envelope, which is why
development of strong, light films is being pursued by folks like Aerostar.

It's great to learn that the unmanned altitude record of about 175K' set by
the USAF in the 60's has finally been effectively challenged!

73 de Mike W5VSI

On 8/6/2010 08:23, L. Paul Verhage wrote:
>
>
> Most of use fly within the 12 pound limit so we don't need to file for a wavier.
> However, I'd like to know how heavy we do get. What's the other end of the
> spectrum look like in regards to weight and altitude.
> Thanks.
> PS, I was reading a COSPAR report written by a Japnese company about their
> development of thin, lightweight plastic films. They built a balloon that
> reached 170,000 feet several years ago. Small payload and large balloon.
> I see that some of the ZPB are several million cubic feet in volume.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7997. Re: [GPSL] Regulator

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-06 20:20:57 UTC
From: Mike Manes
Topic: 7985 Message: 7997

Hi Pete,

A gas pressure regulator actually controls the pressure appearing at its outlet. In operation, a needle valve on the inlet side is controlled by a bellows connected to the output side. An adjustable spring loads the bellows to set the pressure. If the output pressure drops, the bellows opens the needle valve, and vice versa. The spring is adjusted using a multiple-turn knob, and it can take several turns to run the set pressure down to zero.

However, in order to get a decent level of flow thru any useful length of hose during fill, the pressure setting must be cranked up beyond the point that would burst a balloon neck in the event of torsion obstruction or pinch-off.

EOSS used to use a regulator on the tank, but it created more problems than it solved, in particular, by freezing up in a humid climate. So we just gone to controlling the flow using the tank valve, and keeping an eagle-eyed op on the valve to shut down if a twist develops. For multiple 3000 gm launches, we've got a manifold that lets us gang up two tanks into the fill hose, so that when the first bottle goes flat, we can continue the fill right away without moving fittings.

73 de Mike W5VSI

On 8/6/2010 08:50, Pete Lilja wrote:
>
>
> Some of you did and many of you probably did not read my long monologue on our
> two lost errant balloons yesterday. That's really neither here nor there but
> is prompting this question...
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> ...helium regulators: the regulator we use is simply a guy on the tank with
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> regulators as well?
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> After losing a $65 balloon yesterday due to too much pressure and / or flow
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> Pete
> KC0GPB
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

7998. Fwd: [Ballooning] ERAU HASP Payload Flight Certified

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-07 00:15:42 UTC
From: Mike Manes
Topic: 7998 Message: 7998

Nice balloon!!

-------- Original Message --------
Subject: [Ballooning] ERAU HASP Payload Flight Certified
Date: Fri, 06 Aug 2010 22:18:53 -0000
From: Jack <jscra@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Members of the Embry-Riddle Aeronautical University (ERAU) High Altitude Student Platform (HASP) team have been at NASA's Columbia Scientific Balloon Facility (CSBF) in Palestine, TX for the last week performing payload integration and thermal vacuum testing. Successful completion of T/V testing and RF compatibility testing was completed Friday, August 6, 2010 and ERAU received their Flight Certification.

Experiments aboard the ERAU payload include a gieger counter, and a light spectrum experiment built by Pima Community College, Tucson, AZ. The ERAU payload also contains power, communications, GPS, and data handling subsystems that will be the basis for potential satellite programs in the future.

The HASP platform flight is scheduled for early September 2010 from Ft. Sumner, NM depending on weather, etc. It will fly on an 11 million square foot zero pressure balloon with a target altitude of 120,000 feet. The flight duration will be nominally 16 hrs -- again depending on weather forecast, and flight path considerations.

The ERAU payload, Hatchling 1, will transmit standard APRS and payload data on 445.950 MHz once a minute. This data will be i-gated to the standard APRS internet server. More detailed schedule information will be posted prior to flight.

Additional information about the HASP program can be found at http://laspace.lsu.edu/hasp/index.html

Jack Crabtree, W7JLC
ERAU Space Grant Project Mentor
Arizona Near Space Research

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

7999. W9YJ-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-07 16:39:04 UTC
From: natewac@aol.com
Topic: 7999 Message: 7999

Just finished working the W9YJ-11 balloon with great success. I started hearing the balloon at 26,497 feet at about 250 miles away. It wasn't strong enough to start hearing myself 'til it hit 30,391 with the first qso at 38,039. The best qso that should hold 6th place in the ARHAB records was with KD0FW. Distance of about 597 miles. KC8CUN also had a qso with KD0FW and that should hold 5th. We'll have to wait to get this confirmed. Great launch and Thanks for your efforts on the W9YF-11 launch.

N8WAC,Tony

8000. heaviest ARHAB payloads and waiver vs. notification

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-07 16:55:54 UTC
From: Mark Caviezel
Topic: 8000 Message: 8000

Paul:
I've launched three heavy payloads to date. One was a 40 pound phone booth sized (3'x3'x6') gondola, one was a 55 gallon polyethylene barrel partially filled with jettisonable brine ballast and the other was a NASA-funded payload about the size of a clothes washing machine. The last two were 152 pounds total payload each. The brine barrel flight was specifically intended to demonstrate and test an aggressively high stress level in my thin 0.75 mil LDPE balloon plastic. The phone booth flew under a Raven 9470 cubic foot balloon, the others flew under 10k cubic foot and 50k cubic foot Global Western zero pressure balloons. All of these flights reached a stable float with no problems. The NASA-funded payload was not an ARHAB flight (there were no amateur band emissions associated with this flight) but the others were.

Waiver versus Notification? For a number of reasons, the phone booth flight is likely the last time I will request a waiver, unless the planned flight truly can not be conducted within the published rules. The waiver for the phone booth gondola flight was handled extraordinarily poorly by the civil servants then. Indeed, I prefer to operate entirely within the Part 101 flight rules- no waiver, but with the required notifications and communication. Some ARHAB operators will mention that the radar reflector requirement is obsolete. Whether or not that is true, I will leave it to the FAA to set the rules. And when I am operating a flight, I will follow the rules; the required announcements and co-ordination are prudent and reasonable and not difficult to comply with.

I have run into similar waiver/notification issues when conducting Part 105 parachuting operations off-airport. I suspect because Part 101 and Part 105 operations are not in the day-to-day normal activities of many parts of the FAA, they try to guide/force this activity into a waiver process. As soon as you agree to get railroaded into the waiver process you set the stage for individualized local interpretation of national aviation rules. The goal of aviation safety is best served by uniform application of the federal rules.

best

- Mark ng0x

8001. Re: [GPSL] heaviest ARHAB payloads and waiver vs. notification

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-08 02:21:41 UTC
From: Mike Manes
Topic: 8000 Message: 8001

Just a comment regarding Mark's comments relative to a COA (Waiver).

All but a few of EOSS's flights are exempt, so we can't often enjoy the freedom granted to those light flights.

1. The radar reflector is not required for exempt flights.

2. EOSS succumbed to the waiver requirement that imposed on us for the first Big Blue heavy flight by the now-retired FAA bureaucrat at Western Region; he demanded a waiver to 101.1 - the applicability clause, of all things, otherwise he's refuse permission to launch per 101.7.

So I went ahead and filed for that, plus the radar reflector and ceiling and visibility requirements as well - all of which were granted. Both were accompanied by technical justification based on the obsolescence of primary radar return tracking by the FAA and availability of GPS-based real-time tracking.

A successor at Region felt the 101.1 waiver bit was "BS" (her term), but the other two remain -and we've sure used 'em! This year alone, we've launched three thru solid overcast, and two were in 1/2 mile vis in rain. Those would have been scrubbed otherwise, and some 150 students would have returned home those weekends without experiencing flights.

The FAA can be a pain to work with from time to time, but they're amenable to reasonable negotiation where their demands go over the top. However, it makes no sense whatever to get crossways with them - they do have 101.7 at their disposal, and as a regulatory agency they can impose legal sanctions.

Regardless, EOSS defers the single-flight load record to ES-OS ; but I think EOSS has still hauled up much more total weight over its 155 flights to date.

73 de Mike W5VSI

On 8/7/2010 10:55, Mark Caviezel wrote:
> Paul:
> I've launched three heavy payloads to date. One was a 40 pound phone booth sized (3'x3'x6') gondola, one was a 55 gallon polyethylene barrel partially filled with jettisonable brine ballast and the other was a NASA-funded payload about the size of a clothes washing machine. The last two were 152 pounds total payload each. The brine barrel flight was specifically intended to demonstrate and test an aggressively high stress level in my thin 0.75 mil LDPE balloon plastic. The phone booth flew under a Raven 9470 cubic foot balloon, the others flew under 10k cubic foot and 50k cubic foot Global Western zero pressure balloons. All of these flights reached a stable float with no problems. The NASA-funded payload was not an ARHAB flight (there were no amateur band emissions associated with this flight) but the others were.
>

> Waiver versus Notification? For a number of reasons, the phone booth flight is likely the last time I will request a waiver, unless the planned flight truly can not be conducted within the published rules. The waiver for the phone booth gondola flight was handled extraordinarily poorly by the civil servants then. Indeed, I prefer to operate entirely within the Part 101 flight rules- no waiver, but with the required notifications and communication. Some ARHAB operators will mention that the radar reflector requirement is obsolete. Whether or not that is true, I will leave it to the FAA to set the rules. And when I am operating a flight, I will follow the rules; the required announcements and co-ordination are prudent and reasonable and not difficult to comply with.
>
> I have run into similar waiver/notification issues when conducting Part 105 parachuting operations off-airport. I suspect because Part 101 and Part 105 operations are not in the day-to-day normal activities of many parts of the FAA, they try to guide/force this activity into a waiver process. As soon as you agree to get railroaded into the waiver process you set the stage for individualized local interpretation of national aviation rules. The goal of aviation safety is best served by uniform application of the federal rules.
>
> best
>
> - Mark ng0x
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> ------------------------------------
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8002. Re-worked ARHAB web site

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-08 20:55:04 UTC
From: Keith Kaiser
Topic: 8002 Message: 8002

I've rewritten the ARHAB.org web site so that all the support pages (announcements, members, records) are part of the menu system. If you get a few minutes, please take a look and let me know what else is needed or what is extra if that is the case.

I see the form to send me a flight announcement is missing, I'll add that right away. Anything else?

Thanks everyone.

73's
-- keith

8003. Re: [GPSL] Re-worked ARHAB web site

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-08 22:22:42 UTC
From: Mike Manes
Topic: 8002 Message: 8003

Hi Keith,

Hey, that looks >really< nice. Well done, sir!

One suggestion: I use the "Members" page to find ARHAB groups which
may be located near someone who's looking for help. etc. Would it be
possible to add a column showing the 2-char state / province / country code,
and maybe some index of current activity?

Keep up the good work, man,
73 de Mike W5VSI, EOSS

On 8/8/2010 14:55, Keith Kaiser wrote:
> I've rewritten the ARHAB.org web site so that all the support pages (announcements, members, records) are part of the menu system. If you get a few minutes, please take a look and let me know what else is needed or what is extra if that is the case.
>
> I see the form to send me a flight announcement is missing, I'll add that right away. Anything else?
>
>
> Thanks everyone.
>
> 73's
> -- keith
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8004. Jet stream centering of neutrally buoyant balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-09 16:14:06 UTC
From: dbowen1
Topic: 8004 Message: 8004

A curious question to think about...

In watching the Jet Stream forecasts for the trans-atlantic balloon flights, we were concerned at the narrow nature of the jet stream. It appeared that a balloon would have to be pretty lucky to stay in the middle of this fast lane of wind, many forecasts showed eddies along the edges and corners of the Jet Stream dumping the forecast track off into slow air.

We simply waited until the forecast track had us going all the way across the ocean, to determine when to launch, and tried to launch exactly into the stream where the prediction suggested. In the air, the balloons didn't seem to have a problem drifting horizontally out of the Jet Stream, until dropping out of it due to altitude loss.

I've been wondering if there may be some centering affect due to bernoulli's principle in the high speed air. The high speed zone should produce a lower air pressure- would this cause the balloon to stay in that fast lane of the stream (considering the balloon is at neutral buoyancy, and the fast lane is at the same altitude)?

Thanks,
Dan

8005. Re: [GPSL] Jet stream centering of neutrally buoyant balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-09 16:19:38 UTC
From: L. Paul Verhage
Topic: 8004 Message: 8005

Does that require the wind speed be different on opposite sides of the balloon or the balloon to have different curvatures on opposite sides?

Creating a differtence across a balloon may be difficult to create and then mantain.

There is a compnay that was planning to lower a vertical wing beneath a balloon. The balloon would actively maintain the oreintation of the wing and the wing would maintain a constant thrust on the balloon.

Paul

On Mon, Aug 9, 2010 at 11:14 AM, dbowen1 <dbowen1@...> wrote:

> A curious question to think about...
>
> In watching the Jet Stream forecasts for the trans-atlantic balloon
> flights, we were concerned at the narrow nature of the jet stream. It
> appeared that a balloon would have to be pretty lucky to stay in the middle
> of this fast lane of wind, many forecasts showed eddies along the edges and
> corners of the Jet Stream dumping the forecast track off into slow air.
>
> We simply waited until the forecast track had us going all the way across
> the ocean, to determine when to launch, and tried to launch exactly into the
> stream where the prediction suggested. In the air, the balloons didn't
> seem to have a problem drifting horizontally out of the Jet Stream, until
> dropping out of it due to altitude loss.
>
> I've been wondering if there may be some centering affect due to
> bernoulli's principle in the high speed air. The high speed zone should
> produce a lower air pressure- would this cause the balloon to stay in that
> fast lane of the stream (considering the balloon is at neutral buoyancy, and
> the fast lane is at the same altitude)?
>
> Thanks,
> Dan
>
>

--
Onwards and Upwards,
Paul

8006. BASE 48 and 49 at SpaceJam 4

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-09 19:54:14 UTC
From: BASE
Topic: 8006 Message: 8006

Dear friends,

Saturday's two flights were reasonably successful. Both flights were appreciated by the Scouts at SpaceJam 4 in Rantoul, Illinois. Landings were in crop fields (corn for 48 and soybeans for 49).

Thanks to Bill WB8ELK, the ATV on BASE 48 was received at least as far away as Michigan and Ohio. Ron N9QGS provided his APRS tracker and DominoEx for this flight. A problem in the SpaceJam ground station prevented us from getting any video recorded on site. Any images that anyone else obtained would be appreciated.

N8WAC already described some of the long-distance EBE contacts made with BASE 49. I wish we could have floated, the potential landing site was not balloon friendly. Instead, the extra altitude may have encouraged more long distance contacts. If anyone copied the DominoEx on 147.45 MHz for BASE 49, I'd like to hear from you.

One of the highlights for me was having Mark KA9SZX, Bill WB8ELK, and Al K9SI on the tracking and recovery teams (I know they've had a lot of fun together over the years). I also appreciate the recovery efforts of the Electric Eye team of Trey KC9QOV and Jay KC9QOW.

Additional details and photos are available from the website:

http://www.depauw.edu/acad/physics/base

BASE 50 should happen in September 2010. Exact date will be announced shortly.

Thanks again for your support,
Howard, KC9QBN

8007. Cost of ZPB's

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-09 21:30:08 UTC
From: L. Paul Verhage
Topic: 8007 Message: 8007

For Mark and anyone else who has flown a ZPB, about how much do they run?

At my presentation I'll mention that neoprene balloons we use run around
$60. But I don't knwo what to say about ZPBs.

Thanks

--
Onwards and Upwards,
Paul

8008. Re: [GPSL] Jet stream centering of neutrally buoyant balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 02:46:00 UTC
From: Mike Manes
Topic: 8004 Message: 8008

Hi Dan,

Are you thinking of those dept store displays where a ball is suspended in space by some sort of vertical stream of air?

If so, then I thinkthe trick there requires an upward-flowing diverging cylindrical column of air, forming a low-drag bowl in the center - plus gravity. Can't think of common natural horizontal flows that could turn that trick, but I'm not a fluid dynamicist, either.

73 de Mike W5VSI

On 8/9/2010 10:14, dbowen1 wrote:
> A curious question to think about...
>
> In watching the Jet Stream forecasts for the trans-atlantic balloon flights,
> we were concerned at the narrow nature of the jet stream. It appeared that a
> balloon would have to be pretty lucky to stay in the middle of this fast lane
> of wind, many forecasts showed eddies along the edges and corners of the Jet
> Stream dumping the forecast track off into slow air.
>
> We simply waited until the forecast track had us going all the way across the
> ocean, to determine when to launch, and tried to launch exactly into the
> stream where the prediction suggested. In the air, the balloons didn't seem to
> have a problem drifting horizontally out of the Jet Stream, until dropping out
> of it due to altitude loss.
>
> I've been wondering if there may be some centering affect due to bernoulli's
> principle in the high speed air. The high speed zone should produce a lower
> air pressure- would this cause the balloon to stay in that fast lane of the
> stream (considering the balloon is at neutral buoyancy, and the fast lane is
> at the same altitude)?
>
> Thanks,
> Dan
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8009. Re: [GPSL] Cost of ZPB's

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 03:03:52 UTC
From: Mike Manes
Topic: 8007 Message: 8009

Hi Paul,

Since Aerostar won't sell to ARHAB, it's tough to get a quote. But I
think U Ky paid about $1500.00 for the 90K cuft bag we flew for 'em.
Mark NG0X might be a better source, since he rolls his own - and may know
of an offshore plastic source that's not run by risk managers.

Our Totex 3000's run us $260 each; $60 is more like a 1000 or 1200. Might
mention that launch expendables costs vary exponentially with neck load for
a given target burst height.

73 de Mike W5VSI

On 8/9/2010 15:30, L. Paul Verhage wrote:
>
>
> For Mark and anyone else who has flown a ZPB, about how much do they run?
> At my presentation I'll mention that neoprene balloons we use run around $60.
> But I don't knwo what to say about ZPBs.
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8010. zp balloon cost

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 16:27:55 UTC
From: Mark Caviezel
Topic: 8010 Message: 8010

The current list price for the Global Western TA (Trans-Atlantic) balloon- identical to the SNOX 4 balloon- is $300. This model is specifically designed for long endurance, long distance flights. Larger displacements are available to qualified clients by custom quotation.

Despite rampant speculation on the internet discussion groups, the Global Western plastic is 100% made in the USA incorporating several modern technologies that you won't find on competing zero pressure balloons.

We're currently set up to handle balloon fabrication from 1 cubic foot to 10 million cubic feet. Our most recent balloon was 8.3 million cubic feet and is featured in the Space Dive cover story of this month's Popular Mechanics magazine.

best regards,

- Mark ng0x

ps I have one 'TA' in stock right now, interested persons can avoid the ten unit minimum order.

8011. Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 17:24:15 UTC
From: Pete Lilja
Topic: 8011 Message: 8011

I just saw this story <http://www.kwwl.com/Global/story.asp?S=12955238> on the local noon news. It got my attention as ballons and explosion were mentioned. I'm curious to know the background and hope the injured wil be OK. Burns are never good.

Pete
KC0GPB

8012. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 17:51:20 UTC
From: Joe
Topic: 8011 Message: 8012
Attachments: 1 described; binary payloads are missing from this source WARC

Why would anyone intentionally make a mix of H2 and O2?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/10/2010 12:24 PM, Pete Lilja wrote:
>
>
> I just saw this story
> <http://www.kwwl.com/Global/story.asp?S=12955238> on the local noon
> news. It got my attention as ballons and explosion were mentioned.
> I'm curious to know the background and hope the injured wil be OK.
> Burns are never good.
> Pete
> KC0GPB
>
>
>

8013. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 17:49:14 UTC
From: James Hannon
Topic: 8011 Message: 8013

It makes a big bang. Not quite as big as O2 and C2H2.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Joe" <nss@...>
Sent 8/10/2010 12:51:20 PM
To: GPSL@yahoogroups.com
Cc: "Pete Lilja" <plilja@...>
Subject: Re: [GPSL] Iowa City Balloon Incident in the news
Why would anyone intentionally make a mix of H2 and O2?
Joe WB9SBDThe Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com
On 8/10/2010 12:24 PM, Pete Lilja wrote:
I just saw this story on the local noon news. It got my attention as ballons and explosion were mentioned. I'm curious to know the background and hope the injured wil be OK. Burns are never good.Pete KC0GPB

8014. Re: Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 18:03:08 UTC
From: n1ltv
Topic: 8011 Message: 8014

> I'm curious to know the background and hope the injured wil be
> OK.

See this:

http://www.press-citizen.com/article/20100810/NEWS01/100810003/UI-staff-member-injured-in-hydrogen-balloon-explosion

for a picture of the injured (photo taken months ago before incident)
and a very informative caption that may explain the general
task being undertaken which "required" the transport of inflated
balloons.

I hope that if the report was correct, that some of the balloons
were an oxygen/hydrogen mixture, they were at least quite small balloons. Easy to surmise why some of the balloons had that
2 gas mixture and some didn't.

Not a good idea to do that no matter how small the balloons.
Really bad idea, especially in a **totally closed** vehicle.
Fast or explosive combustion in a confined space equals
trouble. Even just a fire in a space like that is bad enough.

Hank

8015. Re: Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 18:09:14 UTC
From: n1ltv
Topic: 8011 Message: 8015

> Why would anyone intentionally make a mix of H2 and O2?

Joe,

Saw your post after I just did my first on this topic.

Why?

Ironically, to demonstrate to young people how pure hydrogen
just burns, while hydrogen with the proper amounts of air or
oxygen is explosive.

The whole thing is somewhat similar to the police officer
who, while conducting a gun safety course at a middle or high
school, shot himself in the foot at the front of the classroom
during the lecture with his police issued pistol.

That is a true story. It may be on youtube -- just about
everything is. I saw the footage maybe a year or two ago
on TV.

Hank

8016. Re: [GPSL] Re: Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 18:15:30 UTC
From: Joe
Topic: 8011 Message: 8016
Attachments: 1 described; binary payloads are missing from this source WARC

And this is a person that is teaching our young?

Make one wonder sometimes our educational system?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/10/2010 1:09 PM, n1ltv wrote:
>> Why would anyone intentionally make a mix of H2 and O2?
>>
> Joe,
>
> Saw your post after I just did my first on this topic.
>
> Why?
>
> Ironically, to demonstrate to young people how pure hydrogen
> just burns, while hydrogen with the proper amounts of air or
> oxygen is explosive.
>
> The whole thing is somewhat similar to the police officer
> who, while conducting a gun safety course at a middle or high
> school, shot himself in the foot at the front of the classroom
> during the lecture with his police issued pistol.
>
> That is a true story. It may be on youtube -- just about
> everything is. I saw the footage maybe a year or two ago
> on TV.
>
> Hank
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> Yahoo! Groups Links
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8017. Re: Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 18:26:27 UTC
From: n1ltv
Topic: 8011 Message: 8017

> The whole thing is somewhat similar to the police officer
> who, while conducting a gun safety course at a middle or high
> school, shot himself in the foot at the front of the classroom
> during the lecture with his police issued pistol.

From the soundtrack it seems like it isn't the officer's own
gun, but one confiscated from a boy found playing with a gun.
It's a Glock 40. He's also a DEA agent technically.

> That is a true story. It may be on youtube -- just about
> everything is.

BINGO!

http://www.youtube.com/watch?v=AxWWJaTEdD0

Hank

8018. Conference Documents

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 18:34:27 UTC
From: Keith Kaiser
Topic: 8018 Message: 8018

Zack sent me all the PowerPoint and WebEx documentation from GPSL 2010, they are all now available for download at http://superlaunch.org.

Look in the right hand column under "Past GPSL Locations" for the link. Each file is available individually, so you don't have to download the entire 400Mg of files he sent to me.

I have not tested all the downloads, so if you run into a problem let me know.

73's

P.S.
The page is under construction, so if something else is amiss...forgive me please.

8019. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:11:37 UTC
From: Mike Manes
Topic: 8011 Message: 8019

Hi Pete,

from the link:
--- clip ---
Director of Public Safety Chuck Green says a university staff member, Dale Stille, had loaded balloons - four filled with hydrogen and four filled with a hydrogen oxygen mix - into a university owned Ford Explorer for an educational event off campus.

When he opened the side door on the SUV, the balloons exploded.
--- clip ---

Probably just a little static discharge, or one of the balloons leaked and the dome light switch arced a bit. This goes to show just how little energy is required to ignite an H2-O2 mixture; far less than any hydrocarbon mixture.

Apparently these H2 party balloons were for some off-campus demo. The staffer probably was NOT the one giving the demo, however, unless he/she was suicidal.

73 de Mike W5VSI

On 8/10/2010 11:24, Pete Lilja wrote:
>
>
> I just saw this story <http://www.kwwl.com/Global/story.asp?S=12955238> on the
> local noon news. It got my attention as ballons and explosion were
> mentioned. I'm curious to know the background and hope the injured wil be
> OK. Burns are never good.
> Pete
> KC0GPB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8020. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:22:27 UTC
From: Pete Lilja
Topic: 8011 Message: 8020

Hydrogen has a huge flammable range 4% to 74% (or 75% according to this:
http://www.engineeringtoolbox.com/explosive-concentration-limits-d_423.html)
That's a big range.

You can see from the photo of the SUV that there was enough force to damage
the car.

It's a shame it had to happen, of course.

Not disputing static as a possibility, Mike. It's just hard to imagine that
with a local dew point temp in the mid 70s there would be a charge! Yuck!
I hate this weather!

Pete
KC0GPB

On Tue, Aug 10, 2010 at 2:11 PM, Mike Manes <mrmanes@...> wrote:

> Hi Pete,
>
> from the link:
> --- clip ---
> Director of Public Safety Chuck Green says a university staff member, Dale
> Stille, had loaded balloons - four filled with hydrogen and four filled with
> a hydrogen oxygen mix - into a university owned Ford Explorer for an
> educational event off campus.
>
> When he opened the side door on the SUV, the balloons exploded.
> --- clip ---
>
> Probably just a little static discharge, or one of the balloons leaked and
> the dome light switch arced a bit. This goes to show just how little
> energy is required to ignite an H2-O2 mixture; far less than any hydrocarbon
> mixture.
>
> Apparently these H2 party balloons were for some off-campus demo. The
> staffer probably was NOT the one giving the demo, however, unless he/she
> was suicidal.
>
> 73 de Mike W5VSI
>
> On 8/10/2010 11:24, Pete Lilja wrote:
>
>>
>>
>> I just saw this story <http://www.kwwl.com/Global/story.asp?S=12955238>

>> on the
>>
>> local noon news. It got my attention as ballons and explosion were
>> mentioned. I'm curious to know the background and hope the injured wil be
>> OK. Burns are never good.
>> Pete
>> KC0GPB
>>
>>
>>
>>
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

8021. Inert gases in closed spaces

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:27:12 UTC
From: Mark Conner
Topic: 8021 Message: 8021

On my last trip to Linweld, the clerk advised me that they would no longer sell to customers who take their cylinders home in an enclosed vehicle. I normally use a small SUV (with two windows open) but I guess I'll have to borrow a pickup in the future.

Most of us on here knows the risks and how to mitigate them, but it's worth mentioning again that inert gases can kill too. If you do transport your cylinders in a closed vehicle, keep the windows open while the cylinders are inside even if unoccupied. Better yet, use an open truck bed or trailer. It would be a bad thing to get in a vehicle full of helium and not realize the lack of oxygen until after you began driving. Or if the leak began while driving and displaced the oxygen without you realizing it.

I was reading some safety tips about dealing with liquid nitrogen. One rule is never transport a dewar of liquid N2 on an elevator. If you spill it, you'll be unconscious or dead before the doors open as the nitrogen will boil and force all the fresh air out of the car. Probably not a useful bit of information for me, but certainly had never thought of it previously.

73 de Mark N9XTN

8022. Re: [GPSL] Inert gases in closed spaces

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:29:52 UTC
From: Ed Moore
Topic: 8021 Message: 8022

Also, with any high pressure cylinder, point the valve end towards the front of the vehicle so that should the neck fail, it's the guy behind you that gets killed, rather than you.

Ed

On 10 Aug 2010, at 20:27, Mark Conner wrote:

> On my last trip to Linweld, the clerk advised me that they would no longer sell to customers who take their cylinders home in an enclosed vehicle. I normally use a small SUV (with two windows open) but I guess I'll have to borrow a pickup in the future.
>
> Most of us on here knows the risks and how to mitigate them, but it's worth mentioning again that inert gases can kill too. If you do transport your cylinders in a closed vehicle, keep the windows open while the cylinders are inside even if unoccupied. Better yet, use an open truck bed or trailer. It would be a bad thing to get in a vehicle full of helium and not realize the lack of oxygen until after you began driving. Or if the leak began while driving and displaced the oxygen without you realizing it.
>
> I was reading some safety tips about dealing with liquid nitrogen. One rule is never transport a dewar of liquid N2 on an elevator. If you spill it, you'll be unconscious or dead before the doors open as the nitrogen will boil and force all the fresh air out of the car. Probably not a useful bit of information for me, but certainly had never thought of it previously.
>
> 73 de Mark N9XTN
>

8023. Re: Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:46:44 UTC
From: n1ltv
Topic: 8011 Message: 8023

From KCRG, ch. 9. This adds another picture of Dale, and
the mention of 1st and 2nd degree burns.

http://www.kcrg.com/news/local/UI-Professor-Injured-in-Car-Explosion-100359594.html

8024. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:51:26 UTC
From: Joe
Topic: 8011 Message: 8024
Attachments: 1 described; binary payloads are missing from this source WARC

I agree he had to have a pretty leaky balloon!

We haved filled balloons with H2 and have a hard time to get them to
explode with an open flame.

And static, well you just need to know what to do and what not to do
when it comes to that and I agree it's tropical out there right now!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/10/2010 2:22 PM, Pete Lilja wrote:
>
>
> Hydrogen has a huge flammable range 4% to 74% (or 75% according to
> this:
> http://www.engineeringtoolbox.com/explosive-concentration-limits-d_423.html)
> That's a big range.
> You can see from the photo of the SUV that there was enough force to
> damage the car.
> It's a shame it had to happen, of course.
> Not disputing static as a possibility, Mike. It's just hard to
> imagine that with a local dew point temp in the mid 70s there would be
> a charge! Yuck! I hate this weather!
> Pete
> KC0GPB
>
> On Tue, Aug 10, 2010 at 2:11 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Pete,
>
> from the link:
> --- clip ---
> Director of Public Safety Chuck Green says a university staff
> member, Dale Stille, had loaded balloons - four filled with
> hydrogen and four filled with a hydrogen oxygen mix - into a
> university owned Ford Explorer for an educational event off campus.
>
> When he opened the side door on the SUV, the balloons exploded.
> --- clip ---

>
> Probably just a little static discharge, or one of the balloons
> leaked and
> the dome light switch arced a bit. This goes to show just how
> little energy is required to ignite an H2-O2 mixture; far less
> than any hydrocarbon mixture.
>
> Apparently these H2 party balloons were for some off-campus demo. The
> staffer probably was NOT the one giving the demo, however, unless
> he/she
> was suicidal.
>
> 73 de Mike W5VSI
>
> On 8/10/2010 11:24, Pete Lilja wrote:
>
>
>
> I just saw this story
> <http://www.kwwl.com/Global/story.asp?S=12955238> on the
>
> local noon news. It got my attention as ballons and explosion
> were
> mentioned. I'm curious to know the background and hope the
> injured wil be
> OK. Burns are never good.
> Pete
> KC0GPB
>
>
>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>
>

8025. Re: [GPSL] Iowa City Balloon Incident in the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 19:54:43 UTC
From: Mike Manes
Topic: 8011 Message: 8025

I've seen this classroom demo between a 100% H2 balloon and one
with about 15% O2 in H2. The pure H2 balloon goes kinda "whoosh" when
ignited, compared to a pronounced "BANG" for the mixture. Not like
Jim's acetylene, but plenty loud.
73 de Mike W5VSI

On 8/10/2010 11:49, James Hannon wrote:
>
>
> It makes a big bang. Not quite as big as O2 and C2H2.
>
> Jim Hannon
> http://www.fmtcs.com/web/jmhannon/
> 42,11.90N,91,39.26W
> WB0TXL
>
>
>
> -----Original Message-----
> From: "Joe" <nss@...>
> Sent 8/10/2010 12:51:20 PM
> To: GPSL@yahoogroups.com
> Cc: "Pete Lilja" <plilja@...>
> Subject: Re: [GPSL] Iowa City Balloon Incident in the news
>
> Why would anyone intentionally make a mix of H2 and O2?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/10/2010 12:24 PM, Pete Lilja wrote:
>> I just saw this story <http://www.kwwl.com/Global/story.asp?S=12955238> on
>> the local noon news. It got my attention as ballons and explosion were
>> mentioned. I'm curious to know the background and hope the injured wil be
>> OK. Burns are never good.
>> Pete
>> KC0GPB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8026. Re: [Balloon_Sked] Conference Documents

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 20:17:05 UTC
From: Joe
Topic: 8018 Message: 8026
Attachments: 1 described; binary payloads are missing from this source WARC

It says the link is bad?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/10/2010 1:34 PM, Keith Kaiser wrote:
> Zack sent me all the PowerPoint and WebEx documentation from GPSL 2010, they are all now available for download at http://superlaunch.org.
>
> Look in the right hand column under "Past GPSL Locations" for the link. Each file is available individually, so you don't have to download the entire 400Mg of files he sent to me.
>
> I have not tested all the downloads, so if you run into a problem let me know.
>
> 73's
>
> P.S.
> The page is under construction, so if something else is amiss...forgive me please.
>
> ------------------------------------
>
> Yahoo! Groups Links
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8027. Re: [Balloon_Sked] Conference Documents

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 20:31:54 UTC
From: Mark Conner
Topic: 8018 Message: 8027
Attachments: 1 described; binary payloads are missing from this source WARC

DNS issue?

Domain Name:SUPERLAUNCH.ORG
Created On:17-Jul-2004 05:05:22 UTC
Last Updated On:10-Aug-2010 07:00:19 UTC
Expiration Date:17-Jul-2011 05:05:22 UTC
Sponsoring Registrar:Tucows Inc. (R11-LROR)
Status:CLIENT TRANSFER PROHIBITED
Status:CLIENT UPDATE PROHIBITED
Status:INACTIVE

The name does not resolve to a specific IP, and I see a "last updated" note
of this morning. Is it in transition to somewhere else?

73 de Mark N9XTN

On Tue, Aug 10, 2010 at 15:17, Joe <nss@...> wrote:

> It says the link is bad?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/10/2010 1:34 PM, Keith Kaiser wrote:
>
> Zack sent me all the PowerPoint and WebEx documentation from GPSL 2010, they are all now
available for download at http://superlaunch.org.
>
> Look in the right hand column under "Past GPSL Locations" for the link. Each file is
available individually, so you don't have to download the entire 400Mg of files he sent to
me.
>
> I have not tested all the downloads, so if you run into a problem let me know.
>
> 73's
>
> P.S.
> The page is under construction, so if something else is amiss...forgive me please.
>
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>
> Yahoo! Groups Links
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8028. Re: [Balloon_Sked] Conference Documents

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 20:33:12 UTC
From: Keith Kaiser
Topic: 8018 Message: 8028

I suspect the bad address is because we're trying to remap the IP address of http://superlaunch.org. For now use the older, long link, it's still working.

http://nearspaceventures.com/gpsl2009/

Sorry for the confusion. Lots going on with our various web sites, but it'll settle down soon.

On Aug 10, 2010, at 3:17 PM, Joe wrote:

> It says the link is bad?
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/10/2010 1:34 PM, Keith Kaiser wrote:
>>
>> Zack sent me all the PowerPoint and WebEx documentation from GPSL 2010, they are all now available for download at http://superlaunch.org.
>>
>> Look in the right hand column under "Past GPSL Locations" for the link. Each file is available individually, so you don't have to download the entire 400Mg of files he sent to me.
>>
>> I have not tested all the downloads, so if you run into a problem let me know.
>>
>> 73's
>>
>> P.S.
>> The page is under construction, so if something else is amiss...forgive me please.
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
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>>

8029. ANSR-37

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 22:47:54 UTC
From: Mike Bogard
Topic: 8029 Message: 8029

Can someone tell me where ANSR-37 was launched and how far it traveled? Thanks Mike

8030. Re: [GPSL] Re: [Balloon_Sked] Conference Documents

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-10 23:04:24 UTC
From: Joe
Topic: 8018 Message: 8030
Attachments: 1 described; binary payloads are missing from this source WARC

I go to the old link and dont see any of the fils.

he he he don't ya love web page building?

Now i know why ours is still vintage like 1994!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/10/2010 3:33 PM, Keith Kaiser wrote:
>
>
> I suspect the bad address is because we're trying to remap the IP
> address of http://superlaunch.org. For now use the older, long link,
> it's still working.
>
> http://nearspaceventures.com/gpsl2009/
>
> Sorry for the confusion. Lots going on with our various web sites, but
> it'll settle down soon.
>
>
> On Aug 10, 2010, at 3:17 PM, Joe wrote:
>
>> It says the link is bad?
>>
>> Joe WB9SBD
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 8/10/2010 1:34 PM, Keith Kaiser wrote:
>>> Zack sent me all the PowerPoint and WebEx documentation from GPSL 2010, they are all
now available for download athttp://superlaunch.org.
>>>
>>> Look in the right hand column under "Past GPSL Locations" for the link. Each file is
available individually, so you don't have to download the entire 400Mg of files he sent to
me.
>>>

>>> I have not tested all the downloads, so if you run into a problem let me know.
>>>
>>> 73's
>>>
>>> P.S.
>>> The page is under construction, so if something else is amiss...forgive me please.
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
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>

8031. Re: [GPSL] zp balloon cost

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 01:25:15 UTC
From: L. Paul Verhage
Topic: 8010 Message: 8031

$300, thanks. Mark, I know you make ZPBs, are you associated with TA?

The $300 balloon, what is its volume?

So it sounds like someone can get into ZPB for less than I thought.

Paul

On Tue, Aug 10, 2010 at 11:27 AM, Mark Caviezel <kmcaviezel@...>wrote:

> The current list price for the Global Western TA (Trans-Atlantic) balloon-
> identical to the SNOX 4 balloon- is $300. This model is specifically
> designed for long endurance, long distance flights. Larger displacements
> are available to qualified clients by custom quotation.
>
> Despite rampant speculation on the internet discussion groups, the Global
> Western plastic is 100% made in the USA incorporating several modern
> technologies that you won't find on competing zero pressure balloons.
>
> We're currently set up to handle balloon fabrication from 1 cubic foot to
> 10 million cubic feet. Our most recent balloon was 8.3 million cubic feet
> and is featured in the Space Dive cover story of this month's Popular
> Mechanics magazine.
>
> best regards,
>
> - Mark ng0x
>
> ps I have one 'TA' in stock right now, interested persons can avoid the ten
> unit minimum order.
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8032. Air and Space Magazine

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 02:09:20 UTC
From: L. Paul Verhage
Topic: 8032 Message: 8032

Air and Space has an article on human cluster balloon flights. It mentions how lawn chair Larry hurt the image of this activity.

--
Onwards and Upwards,
Paul

8033. Growth in ARHAB Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 04:36:47 UTC
From: L. Paul Verhage
Topic: 8033 Message: 8033

Where can I find past flights? I looked at ARHAB.org and only found flight announcements for this year.

As I recall, we had over 200 registered flights last year. This year we have 133 so far. But I'd like to look at five years ago and see how many flights we had.

Also, I'd like to look at the increase in the number of groups. I counted 82 listed this year. But when I started in 1996, there must have only been around a dozen. Is there a way to check this?

Thanks.

--
Onwards and Upwards,
Paul

8034. FDSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 04:49:50 UTC
From: L. Paul Verhage
Topic: 3836 Message: 8034

Any news on the FDSL front?

We, in my humble opinion, should focus FDSL on amateur radio operators and public outreach.

We want to get more radio clubs to get involved in this exciting activity.

We want the public to know that they can design payloads that can explore a space like environment.

Once the public is excited by this prospect, they'll be more interested in working with their local clubs to get experiments launched. Who knows, they may even get a license and join a club.

--
Onwards and Upwards,
Paul

8035. AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 04:51:10 UTC
From: L. Paul Verhage
Topic: 8035 Message: 8035

Do people feel happy with pursuing a national organization through the AMA?

--
Onwards and Upwards,
Paul

8036. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 11:53:08 UTC
From: Pete Lilja
Topic: 8035 Message: 8036

Not having attended GPSL I am unaware of the pros and cons of going through the AMA. I've been wondering what the discussion had been in creating a national organization.

Pete
KC0GPB

On Tue, Aug 10, 2010 at 11:51 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Do people feel happy with pursuing a national organization through the AMA?
>
> --
> Onwards and Upwards,
> Paul
>
>

8037. Promoting ARHAB and Consequences of growth in the hobby

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 12:58:30 UTC
From: Michael Willett
Topic: 3836 Message: 8037

Thinking out loud about the promotion of ARHAB at FD or in the news:

While I support expanding the hobby, I also fear the one person or group that causes a problem resulting in FAA rule changes, greatly impacting all of us and this hobby.

Right now, AHAB does not require an amateur radio license to fly a High Ball, nor does it require any training at all on preparation or safety, both for the balloonists or with a view of the FAA regulations in place to promote safety. In other words, other than a few FAA rules, there are no certifications required to get in the air to possibly cause trouble and ruin it for the rest of us.

Therefore, I feel a great amount of the efforts put forth now to promote our hobby should have a great focus on the "How to's" as well as a focus on safety, such as how not to cause the problems we all have seen. I personally have experienced the learning curve that I feel warrants a more laid-out plan for safe ballooning, such as how to determine your flight path, how to cut down the balloon, and a lot of this is beyond the initial understanding of the armchair enthused Joe Sixpack that would see the opportunity to send their camera to the edge of space and launches his balloon over the White House, Area 51 or class B airspace.

Much of our hobby (Amateur Radio) is self-regulated, and I personally would like to see our organizations unite to create an arm of our hobby with a focus on educating the prospective ARHABs to desire a "certification" of some type, even an on-line Q&A type of training guide to kick-start newbees into the hobby with a better clue about how, and consequences of what happens when things go wrong or are badly planned. At the end of the training, which I envision to be similar to the on-line ham radio training aids, where you see Q&As for testing for your technician license, you would receive a certification. This would help separate the Joe Sixpacks of the world from ARHAB individuals that take the hobby seriously and fly promoting safety and FAA cooperation.

Again, this is 7:30AM in the morning thinking out loud, but has been on my mind for some time.

--Michael K5NOT

8038. Re: [GPSL] Growth in ARHAB Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 13:16:40 UTC
From: Keith Kaiser
Topic: 8033 Message: 8038

All past flights are still there. In the upper left corner you will see a radio button titled "show all records" click that all all records currently in the database will show up. This goes back only to August of 2009 when I took over the record keeping.
Some day I hope to make it an actual query-able database but for now it is what it is.

On Aug 10, 2010, at 11:36 PM, L. Paul Verhage wrote:

>
> Where can I find past flights? I looked at ARHAB.org and only found flight announcements for this year.
>
> As I recall, we had over 200 registered flights last year. This year we have 133 so far. But I'd like to look at five years ago and see how many flights we had.
>
> Also, I'd like to look at the increase in the number of groups. I counted 82 listed this year. But when I started in 1996, there must have only been around a dozen. Is there a way to check this?
>
> Thanks.
>
> --
> Onwards and Upwards,
> Paul
>
>

8039. Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 13:28:21 UTC
From: Keith Kaiser
Topic: 8033 Message: 8039

Paul has asked a couple of good, interesting questions unfortunately I have not had the time to actually develop the announcements page into a real database. However it has a bunch of functionality which I have pointed out before but for those of you new on the list here goes.

1) Show All Records -- This radio button selection shows all the records in the data base from August of last year to current.
2) Show All Groups -- This button does a similar report but for the group you select only. It also limits the list to either the current displayed page or see #1 above to get the entire list.
3) Report! -- Way up in the upper left hand corner is what looks like a link, when click this produces a report of the complete database. Pay no attention to the last line in the report, I still need to de-bug that.
4) Launch Statistics -- On the right side of the banner is a basic stat report. Nuf said?
5) Help -- Please note the help link immediately under the ARHAB logo.
6) When I'm sent coordinates for the flight, I automatically build the links to Google maps, the various weather reports, etc.
7) When I'm sent a launch time and coordinates, I calculate the UTC sunrise time.
8) Any row listed in pink means it was cancelled for some reason. No reflection on the group, there are many reason to cancel.
9) Any row listed in green means there was APRS or other tracking available to look at.
10) Any row listed in white is yet to happen.

There are probably a few additional things I forgot but thats the bulk of it. I'm limited at the moment to using Javascript and CSS to build functionality. The server is not yet populated with PHP or Perl or even a SQL database and until it is, you have everything I can make happen, happen.

If you have any questions or idea, let me know please because I'm always interested in adding functionality.

On Aug 10, 2010, at 11:36 PM, L. Paul Verhage wrote:

>
> Where can I find past flights? I looked at ARHAB.org and only found flight announcements for this year.
>
> As I recall, we had over 200 registered flights last year. This year we have 133 so far. But I'd like to look at five years ago and see how many flights we had.
>
> Also, I'd like to look at the increase in the number of groups. I counted 82 listed this year. But when I started in 1996, there must have only been around a dozen. Is there a way to check this?
>
> Thanks.
>

> --
> Onwards and Upwards,
> Paul
>
>

8040. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 13:44:32 UTC
From: Joe
Topic: 8035 Message: 8040
Attachments: 1 described; binary payloads are missing from this source WARC

Was there a Discussion about this at GPSL? I remember a discussion about having a discussion, to discuss the possibilities and merits or demerits? If the Discussion, did happen, is it one of the recordings we will eventually be able to watch via the superlaunch web site when i becomes available?

I'm open to discuss this.

Joe WB9SBD
Near Space Sciences KB0KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/11/2010 6:53 AM, Pete Lilja wrote:
>
>
> Not having attended GPSL I am unaware of the pros and cons of going
> through the AMA. I've been wondering what the discussion had been in
> creating a national organization.
> Pete
> KC0GPB
>
> On Tue, Aug 10, 2010 at 11:51 PM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
> Do people feel happy with pursuing a national organization through
> the AMA?
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>

8041. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 13:58:53 UTC
From: Mark Conner
Topic: 8035 Message: 8041

I'm in the same boat as Pete. Is there a portion of the WebEx that covers this? I'd like more info on what was actually said at GPSL, or if that's not available, a one-pager developed based on the GPSL discussion.

73 de Mark N9XTN

On Wed, Aug 11, 2010 at 06:53, Pete Lilja <plilja@...> wrote:

>
>
> Not having attended GPSL I am unaware of the pros and cons of going through
> the AMA. I've been wondering what the discussion had been in creating a
> national organization.
>
> Pete
> KC0GPB
>
> On Tue, Aug 10, 2010 at 11:51 PM, L. Paul Verhage <nearsys@...>wrote:
>
>>
>>
>> Do people feel happy with pursuing a national organization through the
>> AMA?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
>

8042. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 15:11:40 UTC
From: HarryM
Topic: 8035 Message: 8042

The biggest plus that comes to mind right away with being in AMA,
which I have been for years as an RC aircraft pilot, is the insurance.

73 Harry KC5TRB

8043. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 15:35:22 UTC
From: Joe
Topic: 8035 Message: 8043
Attachments: 1 described; binary payloads are missing from this source WARC

The insurance is a plus I also admit,

But I bet we don't have the numbers to be able to get a good price.
Even tho we do have the facts of history of how to date not a single
claim would have been made. And what insurance company wouldn't like that!

Premiums paid and no claims paid out..

The other thing tho, is the possibility of a training program. or
something for all the new comers. With all the media lately since the
MIT guys came out, ever since there has been an awful lot of people
getting into this that have no clue at all that there are regulations.

I had one guy contact me with a flight he was working on, that was soo
illegal in soo many ways it wasn't even funny! I honestly can not even
remember what was all soo wrong, but there were like a dozen 101 rules
he would have broken if he flew what he was proposing.

Some sort of a mentoring program "Elmer" would be fantastic!

I know Bill ELK was my "Elmer" And without his help in my early days,
my first flights also probably would have been illegal also.

With our next flight I will highly video and document our filling
procedures we use when using H2. Well when we fill any balloon for that
matter because for all 50 flights so far all we have ever used is H2.
And our procedure is far different than what most would think.

73 all!

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/11/2010 10:11 AM, HarryM wrote:
>
>
> The biggest plus that comes to mind right away with being in AMA,
> which I have been for years as an RC aircraft pilot, is the insurance.
> 73 Harry KC5TRB
>
>
>

8044. Aug. 11, 1978: First Atlantic Balloon Crossing Takes Off

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 15:42:06 UTC
From: Keith Kaiser
Topic: 8044 Message: 8044

1978: Three Americans take off in a balloon from Presque Isle, Maine. They will land in a field north of Paris 137 hours, 6 minutes later, the first people to cross the Atlantic in a balloon.

After Lindbergh's famous 1927 flight, crossing the Atlantic in a balloon remained one of the last great unconquered aviation challenges. Ben Abruzzo and Maxie Anderson failed in 1977 at the 14th recorded attempt at a crossing. After their Double Eagle balloon crashed off the coast of Iceland, they were pulled from the gondola by a rescue helicopter. Though severely frostbitten, they certainly fared better than the five people who had perished in previous attempts.

From the wreckage of that failed flight came a successful crossing. Less than a year later, Abruzzo and Anderson were back in a gondola, this time joined by pilot Larry Newman. Like its predecessor, the Double Eagle II was built by legendary balloonist Ed Yost. Unlike its predecessor, the Double Eagle II had a crew with experience gleaned from its first failed attempt.

Hanging from the 160,000-cubic-foot helium balloon was a 15-foot-by-7-foot-by-4.5-foot gondola carrying the three men, a VHF radio, two single-sideband high-frequency radios, one automatic-direction-finder beacon transmitter, one maritime radio, a hookup to the Nimbus 6 satellite and a ham radio — which Newman used to relay messages after all the other radios stopped functioning.

Extreme temperature variations during the trip caused ice to build up on the outside of the balloon each night, with heat from the sun causing the helium to expand during the day. The balloon would rise and fall accordingly. This led to what the pilots called the "Big Drop" on Aug. 16: Double Eagle lowered to 4,000 feet because of atmospheric conditions and then rose to 24,000 feet the same afternoon after superheating from the sun.

The tower at Shannon Airport informed the crew on the night of Aug. 16 that the balloon had crossed into Irish airspace and successfully completed a trans-Atlantic crossing. The balloonists were invited to continue on to Le Bourget Airfield, where Lindbergh's flight landed 51 years earlier, but declined because they didn't want to risk an emergency landing in the heavily populated suburbs of Paris.

Instead of Le Bourget, the Double Eagle II crew settled for a barley field inMiserey, 60 miles north of Paris. The men were immediately swarmed by motorists from a nearby highway who happened to witness the historic touchdown. Newman slept that night in the same bed at the U.S .Embassy in Paris where Lindbergh had slept, and the entire crew was flown back to the United States on the Concorde, compliments of Air France.

Abruzzo, Anderson and Newman went back to the sky immediately to conquer more records. Tragically, Abruzzo and Anderson both died in aviation accidents, while Newman narrowly escaped death during a skydiving accident.

The gondola of the Double Eagle II sits today in the collection of theSmithsonian National Air and Space Museum. The general aviation facility near Abruzzo and Anderson's hometown of

Albuquerque, New Mexico, was renamed Double Eagle II Airport in honor of the crossing.

Source: Various

Photo: Double Eagle II floats over the coast of Normandy. Bettman/Corbis

Read more…

8045. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 16:03:09 UTC
From: HarryM
Topic: 8035 Message: 8045

SigThe numbers wouldn't matter. If you want to pay for a club sanction it makes no difference if there is 1 or 1000 members under that sanction. I'm sure there are specific guidelines for a sanction, but I have not looked at the AMA rules.

We can't mentor all the lone wolfs that want to fly stuff into the sky. We can sure make an effort to do so. With all the attention HAB is getting there will be an influx of those that just launch with no understanding of the consequences. We really need a lot more media coverage to point out the risks and who to contact for mentors in geographic areas across the US. I would recommend that for every flight all, or as many as possible, local media be contacted and informed of the flight.

73 Harry KC5TRB

8046. zero pressure balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 16:54:59 UTC
From: Mark Caviezel
Topic: 8046 Message: 8046

$300, thanks. Mark, I know you make ZPBs, are you associated with TA?

The $300 balloon, what is its volume?

So it sounds like someone can get into ZPB for less than I thought.

Paul
>>>>>>>>>> 'TA' is the model, short for 'Trans-Atlantic'. Volume is about 920 cubic feet.
http://global-western.com/Trans-Atlantic_Balloons.html
Yes, there seem to be a lot of unfounded wives' tales out there about zero pressure ballooning. Smaller plastic bag balloons (zero pressure and sounders) are not extremely difficult to fill and launch. The price point for the TA balloon is not too far off from one of the larger (2 kg, 3kg) latex balloons. The US Federal regulations do not restrict zero pressure balloons any more than they restrict latex balloon flights. Indeed, FAA Part 101 makes no mention of the balloon technology. As long as you are under the payload weights, ballistic coefficient, and other stipulations of the Part, no announcement, co-ordination, or waiver is required. Indeed, even if you are flying a payload of 13 pounds or more, 100% compliance with the regulations is not difficult.

best,

- Mark ng0x

On Tue, Aug 10, 2010 at 11:27 AM, Mark Caviezel <kmcaviezel@yahoo. com>wrote:

> The current list price for the Global Western TA (Trans-Atlantic) balloon-
> identical to the SNOX 4 balloon- is $300. This model is specifically
> designed for long endurance, long distance flights. Larger displacements
> are available to qualified clients by custom quotation.
>
> Despite rampant speculation on the internet discussion groups, the Global
> Western plastic is 100% made in the USA incorporating several modern
> technologies that you won't find on competing zero pressure balloons.
>
> We're currently set up to handle balloon fabrication from 1 cubic foot to
> 10 million cubic feet. Our most recent balloon was 8.3 million cubic feet
> and is featured in the Space Dive cover story of this month's Popular
> Mechanics magazine.
>
> best regards,
>
> - Mark ng0x
>
> ps I have one 'TA' in stock right now, interested persons can avoid the ten
> unit minimum order.
>

8047. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 21:28:30 UTC
From: Mike Manes
Topic: 8035 Message: 8047

Hi Paul,

The $40 per member annual dues mentioned at GPSL was a bit of a shocker. For a club with 40 or so members, like EOSS, that amounts to a pretty hefty annual sum - especially in light of the fact that it's the club, not individual members, who conduct the flights. Model airplane hobbyists each do their own thing, kind of like ham radio operators, so individual membership in AMA makes the same sense for modelers as ARRL membership does for hams.

There wasn't much discussion about liability insurance premiums, which seems to be AMA's most valuable offering to ARHAB, and only some passing mention of legislative / regulatory representation, which are the primary benefits which a national ARHAB organization might confer. And all that chest-pounding about their HQ building / staff / museum kind of gives a clue as to where all those membership dues go.

Wouldn't it would make a bit more sense for ARHAB to link up with ARRL than with AMA? At least both acronyms share a common term!

So IMHO, the quest for a national ARHAB organization continues, and it's looking like we may have to roll our own from the git-go, just like AMA and ARRL did.

Just the $0.02 from another voice crying in the wilderness ...

73 de Mike W5VSI
CTO EOSS

On 8/10/2010 22:51, L. Paul Verhage wrote:
>
>
> Do people feel happy with pursuing a national organization through the AMA?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8048. RE: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 21:33:30 UTC
From: Nick Hanks
Topic: 8035 Message: 8048

Nice response.

My feelings too.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Wednesday, August 11, 2010 15:29
To: GPSL@yahoogroups.com
Cc: L. Paul Verhage
Subject: Re: [GPSL] AMA and a National Group

Hi Paul,

The $40 per member annual dues mentioned at GPSL was a bit of a shocker. For a club with 40 or so members, like EOSS, that amounts to a pretty hefty annual sum - especially in light of the fact that it's the club, not individual members, who conduct the flights. Model airplane hobbyists each do their own thing, kind of like ham radio operators, so individual membership
in AMA makes the same sense for modelers as ARRL membership does for hams.

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those membership dues go.

Wouldn't it would make a bit more sense for ARHAB to link up with ARRL than with AMA? At least both acronyms share a common term!

So IMHO, the quest for a national ARHAB organization continues, and it's looking like we may have to roll our own from the git-go, just like AMA and ARRL did.

Just the $0.02 from another voice crying in the wilderness ...

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On 8/10/2010 22:51, L. Paul Verhage wrote:
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> Do people feel happy with pursuing a national organization through the
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--
Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
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A. Einstein

8049. Re: [GPSL] Promoting ARHAB and Consequences of growth in the hobby

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 21:45:35 UTC
From: Mike Manes
Topic: 3836 Message: 8049

Mike, the "AR" in ARHAB stands for "Amateur Radio". We have granted an exception to our friends in the UK, which prohibits ham xmtrs on balloons (and other aircraft), but in the US, I think that a balloon group that doesn't fly with an FCC ham callsign aboard qualifies at best for "auxiliary" membership.

73 de Mike W5VSI, EOSS

On 8/11/2010 06:58, Michael Willett wrote:
> g curve t

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8050. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 21:49:22 UTC
From: Mark Conner
Topic: 8035 Message: 8050

Someone already researched the ARRL's club liability insurance policy and found it wouldn't work, right?

73 de Mark N9XTN

On Wed, Aug 11, 2010 at 16:28, Mike Manes <mrmanes@...> wrote:

> Wouldn't it would make a bit more sense for ARHAB to link up with ARRL than
> with AMA?
>

8051. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 21:58:16 UTC
From: Mike Manes
Topic: 8033 Message: 8051

Hi Keith,

Man, doing a single database of ALL ARHAB flights dating back to Bill Brown's pioneering flight in '87 could a daunting task!

It might be simpler to provide a history page with links to existing club-generated web-based records, such as:

http://www.eoss.org/ansrecap/index.htm

IIRC, most of the ARHAB web sites that I've visited have their own flight history pages in some form or another.

Now, that wouldn't compile the ARHAB-wide total flight vs time that Paul wanted, but after one intensive pass thru the history pages could yield those numbers, and the current-year number could be updated fairly easily.

The only shortcoming of this approach is that it would skip flights by clubs that don't have web sites, as well as those which have gone belly-up.

73 de Mike W5VSI

On 8/11/2010 07:28, Keith Kaiser wrote:
>
>
> Paul has asked a couple of good, interesting questions unfortunately I have
> not had the time to actually develop the announcements page into a real
> database. However it has a bunch of functionality which I have pointed out
> before but for those of you new on the list here goes.
>
> 1) Show All Records -- This radio button selection shows all the records in
> the data base from August of last year to current.
> 2) Show All Groups -- This button does a similar report but for the group you
> select only. It also limits the list to either the current displayed page or
> see #1 above to get the entire list.
> 3) Report! -- Way up in the upper left hand corner is what looks like a link,
> when click this produces a report of the complete database. Pay no attention
> to the last line in the report, I still need to de-bug that.
> 4) Launch Statistics -- On the right side of the banner is a basic stat
> report. Nuf said?
> 5) Help -- Please note the help link immediately under the ARHAB logo.
> 6) When I'm sent coordinates for the flight, I automatically build the links
> to Google maps, the various weather reports, etc.
> 7) When I'm sent a launch time and coordinates, I calculate the UTC sunrise time.
> 8) Any row listed in pink means it was cancelled for some reason. No
> reflection on the group, there are many reason to cancel.
> 9) Any row listed in green means there was APRS or other tracking available to

> look at.
> 10) Any row listed in white is yet to happen.
>
> There are probably a few additional things I forgot but thats the bulk of it.
> I'm limited at the moment to using Javascript and CSS to build functionality.
> The server is not yet populated with PHP or Perl or even a SQL database and
> until it is, you have everything I can make happen, happen.
>
> If you have any questions or idea, let me know please because I'm always
> interested in adding functionality.
>
>
>
> On Aug 10, 2010, at 11:36 PM, L. Paul Verhage wrote:
>
>>
>> Where can I find past flights? I looked at ARHAB.org <http://ARHAB.org> and
>> only found flight announcements for this year.
>> As I recall, we had over 200 registered flights last year. This year we have
>> 133 so far. But I'd like to look at five years ago and see how many flights
>> we had.
>> Also, I'd like to look at the increase in the number of groups. I counted 82
>> listed this year. But when I started in 1996, there must have only been
>> around a dozen. Is there a way to check this?
>> Thanks.
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8052. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 22:09:27 UTC
From: Mike Manes
Topic: 8035 Message: 8052

Hi Harry,
Does that insurance come gratis with your annual membership dues?
And does it cover the unique risks associated with ARHAB (Class A
penetration w/o an IFR clearance, uncontrolled landing sites, etc)?
73 de Mike W5VSI

On 8/11/2010 09:11, HarryM wrote:
>
>
> The biggest plus that comes to mind right away with being in AMA,
> which I have been for years as an RC aircraft pilot, is the insurance.
> 73 Harry KC5TRB
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8053. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 23:16:29 UTC
From: Mike Manes
Topic: 8035 Message: 8053

I did years ago, and IIRC, it would cover the club activities at the
launch site, but not beyond. Here's the latest dope:

http://www.arrl.org/affiliated-club-benefits

Click on "Club liability insurance".

Note that the coverage is pretty broad, but that premiums vary
depending on what the club does.

So ... maybe there's hope?

EOSS is an ARRL affiliated special service club. I'll nag the honchos
to pursue a quote based on what we do.

73 de Mike W5VSI

On 8/11/2010 15:49, Mark Conner wrote:
>
>
> Someone already researched the ARRL's club liability insurance policy and
> found it wouldn't work, right?
>
> 73 de Mark N9XTN
>
>
> On Wed, Aug 11, 2010 at 16:28, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Wouldn't it would make a bit more sense for ARHAB to link up with ARRL than
> with AMA?
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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8054. Re: [GPSL] Promoting ARHAB and Consequences of growth in the hobby

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 23:18:07 UTC
From: Michael Willett
Topic: 3836 Message: 8054

I an not sure we are on the same page. :) I know ARHAB is Amateur Radio, and I was not referring to memberships of any type... I was talking about separating uninformed Joe Sixpack from the rest of us that want to take a serious and considerate approach to the AHAB hobby, such as what EOSS and many of us do. To fly a High Ball, AHAB, etc, does not require one to be a licensed Amateur Radio Operator, Amateur Radio Operators are not even mentioned in FAR part 101. In fact, part 101 requires nothing of the operator other than to meet criteria of the aircraft capability itself. As a pilot, I find that a little odd, but the rules were likely written for another arm of the government (NOAA-like) and oh-by-the-way - the rest of us.

My concern is promoting the hobby may realize great success. And without education within that promotion, there is nothing to stop Joe Sixpack from flying without a hint of getting self-informed and giving us all a bad name (remember Balloon Boy) and resulting in eventual regulations that kills our Hobby or makes it a lot less fun due to strict regulations imposed by the FAA to alleviate the problems caused by Joe Sixpack.

I personally think it worth while to say "They were not "[voluntary self-certifying group] Certified" if there is a problem with an AHAB flying onto the White House lawn, or over area 51, etc. :) A highly promoted self certification (such as is used in most of Amateur Radio) would help promote a better approach to the AHAB or ARHAB hobby, help alleviate problems with new hobbyists and possibly provide relief from the FAA when an issue arises and some bureaucrat wants to knock us all out of the air.

--Michael K5NOT

On 8/11/2010 4:45 PM, Mike Manes wrote:
> Mike, the "AR" in ARHAB stands for "Amateur Radio". We have granted
> an exception to our friends in the UK, which prohibits ham xmtrs on
> balloons (and other aircraft), but in the US, I think that a balloon
> group that doesn't fly with an FCC ham callsign aboard qualifies at best
> for "auxiliary" membership.
>
> 73 de Mike W5VSI, EOSS
>
> On 8/11/2010 06:58, Michael Willett wrote:
>> g curve t
>

8055. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 23:19:41 UTC
From: Mark Conner
Topic: 8033 Message: 8055

An alternative way to generate a history would be to peruse Ralph's
announcements on the Balloon_Sked list archive. That would get you back a
few more years. Hank N1LTV might have some older stuff too from the 90s.

73 de Mark N9XTN

On Wed, Aug 11, 2010 at 16:58, Mike Manes <mrmanes@...> wrote:

> Hi Keith,
>
> Man, doing a single database of ALL ARHAB flights dating back to Bill
> Brown's pioneering flight in '87 could a daunting task!
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> It might be simpler to provide a history page with links to existing club-
> generated web-based records, such as:
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> http://www.eoss.org/ansrecap/index.htm
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> IIRC, most of the ARHAB web sites that I've visited have their own flight
> history pages in some form or another.
>
> Now, that wouldn't compile the ARHAB-wide total flight vs time that Paul
> wanted, but after one intensive pass thru the history pages could yield
> those numbers, and the current-year number could be updated fairly easily.
>
> The only shortcoming of this approach is that it would skip flights by
> clubs that don't have web sites, as well as those which have gone belly-up.
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> 73 de Mike W5VSI
>
> On 8/11/2010 07:28, Keith Kaiser wrote:
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> >
> > Paul has asked a couple of good, interesting questions unfortunately I
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> > not had the time to actually develop the announcements page into a real
> > database. However it has a bunch of functionality which I have pointed
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> > before but for those of you new on the list here goes.
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> > the data base from August of last year to current.
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> > select only. It also limits the list to either the current displayed page

> or
> > see #1 above to get the entire list.
> > 3) Report! -- Way up in the upper left hand corner is what looks like a
> link,
> > when click this produces a report of the complete database. Pay no
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> > to the last line in the report, I still need to de-bug that.
> > 4) Launch Statistics -- On the right side of the banner is a basic stat
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> > 5) Help -- Please note the help link immediately under the ARHAB logo.
> > 6) When I'm sent coordinates for the flight, I automatically build the
> links
> > to Google maps, the various weather reports, etc.
> > 7) When I'm sent a launch time and coordinates, I calculate the UTC
> sunrise time.
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> > reflection on the group, there are many reason to cancel.
> > 9) Any row listed in green means there was APRS or other tracking
> available to
> > look at.
> > 10) Any row listed in white is yet to happen.
> >
> > There are probably a few additional things I forgot but thats the bulk of
> it.
> > I'm limited at the moment to using Javascript and CSS to build
> functionality.
> > The server is not yet populated with PHP or Perl or even a SQL database
> and
> > until it is, you have everything I can make happen, happen.
> >
> > If you have any questions or idea, let me know please because I'm always
> > interested in adding functionality.
> >
> >
> >
> > On Aug 10, 2010, at 11:36 PM, L. Paul Verhage wrote:
> >
> >>
> >> Where can I find past flights? I looked at ARHAB.org <http://ARHAB.org>
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> >> only found flight announcements for this year.
> >> As I recall, we had over 200 registered flights last year. This year we
> have
> >> 133 so far. But I'd like to look at five years ago and see how many
> flights
> >> we had.
> >> Also, I'd like to look at the increase in the number of groups. I
> counted 82
> >> listed this year. But when I started in 1996, there must have only been
> >> around a dozen. Is there a way to check this?

> >> Thanks.
> >>
> >> --
> >> Onwards and Upwards,
> >> Paul
> >>
> >
> >
> >
> >
>

8056. Re: [GPSL] Promoting ARHAB and Consequences of growth in the hobby

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 23:27:17 UTC
From: Mark Conner
Topic: 3836 Message: 8056

I personally think if something "big" happens, we're knocked out of the air regardless of organization. Our group isn't big enough in dollars, numbers, or anything else to save ourselves. The Government will exempt itself after a large amount of navel-gazing and imposition of an expensive procedural burden.

Not that there aren't other merits to a national A(R)HAB organization and some sort of certification as Michael mentioned, but this won't be one.

73 de Mark N9XTN

On Wed, Aug 11, 2010 at 18:18, Michael Willett <mw@...> wrote:

>
> I personally think it worth while to say "They were not "[voluntary
> self-certifying group] Certified" if there is a problem with an AHAB
> flying onto the White House lawn, or over area 51, etc. :) A highly
> promoted self certification (such as is used in most of Amateur Radio)
> would help promote a better approach to the AHAB or ARHAB hobby, help
> alleviate problems with new hobbyists and possibly provide relief from
> the FAA when an issue arises and some bureaucrat wants to knock us all
> out of the air.
>

8057. Re: [GPSL] Promoting ARHAB and Consequences of growth in the hobby

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-11 23:30:51 UTC
From: Joe
Topic: 3836 Message: 8057
Attachments: 1 described; binary payloads are missing from this source WARC

And just think of the mess that the HPR guys go through just to launch
to 2000 feet!

If I had to do what they do for every flight I'd probably stop.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/11/2010 6:27 PM, Mark Conner wrote:
>
>
> I personally think if something "big" happens, we're knocked out of
> the air regardless of organization. Our group isn't big enough in
> dollars, numbers, or anything else to save ourselves. The Government
> will exempt itself after a large amount of navel-gazing and imposition
> of an expensive procedural burden.
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> Not that there aren't other merits to a national A(R)HAB organization
> and some sort of certification as Michael mentioned, but this won't be
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> 73 de Mark N9XTN
>
> On Wed, Aug 11, 2010 at 18:18, Michael Willett <mw@...
> <mailto:mw@...>> wrote:
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> self-certifying group] Certified" if there is a problem with an AHAB
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> promoted self certification (such as is used in most of Amateur Radio)
> would help promote a better approach to the AHAB or ARHAB hobby, help
> alleviate problems with new hobbyists and possibly provide relief from
> the FAA when an issue arises and some bureaucrat wants to knock us all
> out of the air.
>
>
>
>
>

8058. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 00:14:37 UTC
From: HarryM
Topic: 8035 Message: 8058

My last AMA dues was $58 and my local club dues on top of that was $50.
There is a local club here that costs $200 a year, but they have a paved
runway and a club house with all the fixings, we don't.

Mike, I'm not sure about the specifics of the insurance coverage, but it is included with the annual dues, ONLY if I am flying from a sanctioned field. If I choose to fly from somewhere other than that, like a friends house in the country or out in the street here in the city, I think I'm on my own for liability!

73 Harry KC5TRB

Hi Harry,
Does that insurance come gratis with your annual membership dues?
And does it cover the unique risks associated with ARHAB (Class A
penetration w/o an IFR clearance, uncontrolled landing sites, etc)?
73 de Mike W5VSI

8059. Re: [GPSL] zero pressure balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:19:39 UTC
From: L. Paul Verhage
Topic: 8046 Message: 8059

Goog info, thanks. As a side issue, I would be interested in a 24 hour balloon chase. Next year, I'd like to discuss this idea. Perhaps it could be a part of FDSL.

Paul

On Wed, Aug 11, 2010 at 11:54 AM, Mark Caviezel <kmcaviezel@...>wrote:

> $300, thanks. Mark, I know you make ZPBs, are you associated with TA?
>
> The $300 balloon, what is its volume?
>
> So it sounds like someone can get into ZPB for less than I thought.
>
> Paul
> >>>>>>>>>> 'TA' is the model, short for 'Trans-Atlantic'. Volume is about
> 920 cubic feet.
> http://global-western.com/Trans-Atlantic_Balloons.html
> Yes, there seem to be a lot of unfounded wives' tales out there about zero
> pressure ballooning. Smaller plastic bag balloons (zero pressure and
> sounders) are not extremely difficult to fill and launch. The price point
> for the TA balloon is not too far off from one of the larger (2 kg, 3kg)
> latex balloons. The US Federal regulations do not restrict zero pressure
> balloons any more than they restrict latex balloon flights. Indeed, FAA
> Part 101 makes no mention of the balloon technology. As long as you are
> under the payload weights, ballistic coefficient, and other stipulations of
> the Part, no announcement, co-ordination, or waiver is required. Indeed,
> even if you are flying a payload of 13 pounds or more, 100% compliance with
> the regulations is not difficult.
>
> best,
>
> - Mark ng0x
>
>
>
>
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> On Tue, Aug 10, 2010 at 11:27 AM, Mark Caviezel <kmcaviezel@...>wrote:
>
> > The current list price for the Global Western TA (Trans-Atlantic)
> balloon-
> > identical to the SNOX 4 balloon- is $300. This model is specifically
> > designed for long endurance, long distance flights. Larger displacements
> > are available to qualified clients by custom quotation.
> >

> > Despite rampant speculation on the internet discussion groups, the Global
> > Western plastic is 100% made in the USA incorporating several modern
> > technologies that you won't find on competing zero pressure balloons.
> >
> > We're currently set up to handle balloon fabrication from 1 cubic foot to
> > 10 million cubic feet. Our most recent balloon was 8.3 million cubic feet
> > and is featured in the Space Dive cover story of this month's Popular
> > Mechanics magazine.
> >
> > best regards,
> >
> > - Mark ng0x
> >
> > ps I have one 'TA' in stock right now, interested persons can avoid the
> ten
> > unit minimum order.
> >
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8060. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:24:03 UTC
From: L. Paul Verhage
Topic: 8033 Message: 8060

I lloked at Ralph's website and saw a mesage that his records were now at ARHAB. Perhaps I misunderstood something, but it looks like I can't find past records.

Can someone make a SWAG about the increase in number of flights over the last five years?

Paul

PS, Keith, do you want groups to start sending you a record of their flights? I can send them for NearSys (as KNSP and the shared flights with TVNSP).
On Wed, Aug 11, 2010 at 6:19 PM, Mark Conner <mconner1@...> wrote:

>
>
> An alternative way to generate a history would be to peruse Ralph's
> announcements on the Balloon_Sked list archive. That would get you back a
> few more years. Hank N1LTV might have some older stuff too from the 90s.
>
> 73 de Mark N9XTN
>
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>> Hi Keith,
>>
>> Man, doing a single database of ALL ARHAB flights dating back to Bill
>> Brown's pioneering flight in '87 could a daunting task!
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>> It might be simpler to provide a history page with links to existing club-
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>> history pages in some form or another.
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>> The only shortcoming of this approach is that it would skip flights by
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>>
>> 73 de Mike W5VSI
>>
>> On 8/11/2010 07:28, Keith Kaiser wrote:
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>> > Paul has asked a couple of good, interesting questions unfortunately I
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>> >> Also, I'd like to look at the increase in the number of groups. I
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Onwards and Upwards,
Paul

8061. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:30:07 UTC
From: Mark Conner
Topic: 8033 Message: 8061

Not the website, the old messages at
http://groups.yahoo.com/group/Balloon_Sked/messages

- Mark

On Wed, Aug 11, 2010 at 20:24, L. Paul Verhage <nearsys@...> wrote:

>
>
> I lloked at Ralph's website and saw a mesage that his records were now at
> ARHAB. Perhaps I misunderstood something, but it looks like I can't find
> past records.
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> Can someone make a SWAG about the increase in number of flights over the
> last five years?
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> Paul
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> PS, Keith, do you want groups to start sending you a record of their
> flights? I can send them for NearSys (as KNSP and the shared flights with
> TVNSP).
> On Wed, Aug 11, 2010 at 6:19 PM, Mark Conner <mconner1@...> wrote:
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>> An alternative way to generate a history would be to peruse Ralph's
>> announcements on the Balloon_Sked list archive. That would get you back a
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>> 73 de Mark N9XTN
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>> On Wed, Aug 11, 2010 at 16:58, Mike Manes <mrmanes@...> wrote:
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>>> Hi Keith,
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>>> Man, doing a single database of ALL ARHAB flights dating back to Bill
>>> Brown's pioneering flight in '87 could a daunting task!
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>>> It might be simpler to provide a history page with links to existing
>>> club-
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>>> http://www.eoss.org/ansrecap/index.htm
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>>> IIRC, most of the ARHAB web sites that I've visited have their own flight
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>>> Now, that wouldn't compile the ARHAB-wide total flight vs time that Paul
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>>> those numbers, and the current-year number could be updated fairly
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> --

> Onwards and Upwards,
> Paul
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8062. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:42:50 UTC
From: L. Paul Verhage
Topic: 8035 Message: 8062

Okay, so it sounds like AMA is not really an option. I talked with Pat Kilroy about affliating with AMSAT but that got no where. So maybe ARRL would be an option. Thanks, Mike for rattling the cage about that.
I have no idea what it takes to create a ARHAB organization from scratch. However, something like that could cover clubs at an affordable price for the activity we do. I like the idea of a cert process before you can join and get insurance. It would also mean that someone irresponsible enough to violate the rules forfits their coverage.

Paul

On Wed, Aug 11, 2010 at 7:14 PM, HarryM <hhm_74115@...> wrote:

>
>
> My last AMA dues was $58 and my local club dues on top of that was $50.
> There is a local club here that costs $200 a year, but they have a paved
> runway and a club house with all the fixings, we don't.
>
> Mike, I'm not sure about the specifics of the insurance coverage, but it is
> included with the annual dues, ONLY if I am flying from a sanctioned field.
> If I choose to fly from somewhere other than that, like a friends house in
> the country or out in the street here in the city, I think I'm on my own for
> liability!
>
>
> 73 Harry KC5TRB
>
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>
>
> Hi Harry,
> Does that insurance come gratis with your annual membership dues?
> And does it cover the unique risks associated with ARHAB (Class A
> penetration w/o an IFR clearance, uncontrolled landing sites, etc)?
> 73 de Mike W5VSI
>
>
>
>

--
Onwards and Upwards,
Paul

8063. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:47:09 UTC
From: Joe
Topic: 8033 Message: 8063
Attachments: 1 described; binary payloads are missing from this source WARC

yeah that gets ya back to 2000
EOSS 46 is being announced he he he

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/11/2010 8:30 PM, Mark Conner wrote:
>
>
> Not the website, the old messages at
> http://groups.yahoo.com/group/Balloon_Sked/messages
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> - Mark
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> On Wed, Aug 11, 2010 at 20:24, L. Paul Verhage <nearsys@...
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> Can someone make a SWAG about the increase in number of flights
> over the last five years?
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> PS, Keith, do you want groups to start sending you a record of
> their flights? I can send them for NearSys (as KNSP and the
> shared flights with TVNSP).
> On Wed, Aug 11, 2010 at 6:19 PM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
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> An alternative way to generate a history would be to peruse
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> would get you back a few more years. Hank N1LTV might have
> some older stuff too from the 90s.
>
> 73 de Mark N9XTN
>
>

>
> On Wed, Aug 11, 2010 at 16:58, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
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> Hi Keith,
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> Man, doing a single database of ALL ARHAB flights dating
> back to Bill
> Brown's pioneering flight in '87 could a daunting task!
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> It might be simpler to provide a history page with links
> to existing club-
> generated web-based records, such as:
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> IIRC, most of the ARHAB web sites that I've visited have
> their own flight
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> time that Paul
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> > On Aug 10, 2010, at 11:36 PM, L. Paul Verhage wrote:
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8064. Re: [GPSL] Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 01:54:05 UTC
From: L. Paul Verhage
Topic: 8033 Message: 8064
Attachments: 1 described; binary payloads are missing from this source WARC

That sounds good, but I'm not a member. My membership is pending. Could someone take a peak at 2005 and let me know how many announcements they see?

Thanks,
Paul

On Wed, Aug 11, 2010 at 8:47 PM, Joe <nss@...> wrote:

> yeah that gets ya back to 2000
> EOSS 46 is being announced he he he
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
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>> PS, Keith, do you want groups to start sending you a record of their
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>>> 73 de Mark N9XTN
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>>> On Wed, Aug 11, 2010 at 16:58, Mike Manes <mrmanes@...> wrote:
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8065. Re: [GPSL] AMA and a National Group

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 02:17:23 UTC
From: Pete Lilja
Topic: 8035 Message: 8065

There are two national organizations that deal with high power rocketry (another hobby of mine). The NAR <http://nar.org/> and Tripoli<http://tripoli.org/>offer members certification to 3 levels allowing people to fly various sized
high power motors to their cert. level. Providing the safety code for each organization is followed members are covered with $1 million in liability protection. These organizations are self-policing as well. The certification process is sequential through the 3 levels and one must be certified to purchase commercial motors through a vendor. This system works quite well. The second level requires a written test which can be found online much like the ham exams.

So, it seems to me it'd be possible to create a national organization, develop a safety code (or something similar for HAB activities) and have members show proficiency and understanding of that code and then get insurance to cover the liability from that activity.

But that's a lot of work. What is probably a more likely scenario is to create the organization as a place to develop and foster aspiring HABists. Be a place for those interested to come and learn about the 'How-tos' of HABing.

This is, of course, only my .02 worth... I have a personal liability policy with my homeowner's insurance that covers all of my (legal) activities.

And all that being said I know of two local rocketry clubs that have purchased their own liability policies that cover club members. I dunno what that costs nor how they did it but they did do it to to cover their activities that fall outside of the two national orgs. normal procedures.

Pete
KC0GPB

On Wed, Aug 11, 2010 at 8:42 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Okay, so it sounds like AMA is not really an option. I talked with Pat
> Kilroy about affliating with AMSAT but that got no where. So maybe ARRL
> would be an option. Thanks, Mike for rattling the cage about that.
> I have no idea what it takes to create a ARHAB organization from scratch.
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> Paul

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>> field. If I choose to fly from somewhere other than that, like a friends
>> house in the country or out in the street here in the city, I think I'm on
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>> 73 Harry KC5TRB
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>> Hi Harry,
>> Does that insurance come gratis with your annual membership dues?
>> And does it cover the unique risks associated with ARHAB (Class A
>> penetration w/o an IFR clearance, uncontrolled landing sites, etc)?
>> 73 de Mike W5VSI
>>
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> --
> Onwards and Upwards,
> Paul
>
>

8066. Past Flight Records

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 03:24:33 UTC
From: Keith Kaiser
Topic: 8066 Message: 8066

The only past records of flights that may exist are those trapped in old eMails. Ralph did not keep a database of flights, all his records were in 1 (one) very large Microsoft Word document. He would add a new flight, publish a new web page and send out the Word document to us all.

I have some of the old eMails with attached documents but certainly not all of them. I always thought it would be a great project to put all that into a database so I kept most of them. But I don't have the resources or the online database to make this happen at this time.

If someone needs a specific year, let me know off-line from the mailing list and I'll see if I can find what you need. I'm hoping others have old eMails too because I've only been doing ARHAB since 2005, and the oldest eMail I have from Ralph with flight announcements is dated November 17, 2005. But I will start a search in the online files that I have access to for anything older.

8067. RE: [GPSL] Past Flight Records

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 04:26:55 UTC
From: Rick von Glahn
Topic: 8066 Message: 8067

EOSS has a page that links to individual recaps from all our past flights. However, we also have a summary page that looks at all flights as a single set of data. That information is broken down in various ways but there is a spread sheet on that summary page that has all the raw data. You can discover things like...

EOSS has flown a total of 18,184.3 minutes in the air
Our average flight time is 121.4 minutes
Our max average ascent rate was 1710.7 fpm for the total ascent
We have ascended a total of 12,806,014.5 feet (yep 12 million)
Our average flight distance is 52.6 miles
Total miles flown is 7940.8 miles
We've lifted 1855 lbs.

If you download the spreadsheet you will probably become fascinated at some point. It is very interesting at times. But, word of warning, I didn't really start keeping complete records until Nick Hanks, N0LP came on board at EOSS and suggested I expand what I was tracking in the historical sense. So, that weight figure above is only a good figure for flights eoss-062 of 2002 forward. I didn't keep track of weight prior to that. There are other missing elements.

Oh, one other thing. This is a full on Excel spreadsheet (XLS) and uses VBA "macros" to calculate lots of the information, mainly distances and bearings. So, you'll get a macro warning when you load the spreadsheet.

Anyway, now that you're bored to tears... the spreadsheet basically gives total coverage of our efforts in this arena for the past 20 years.

I'm bringing this up because I'm kind of proud of our group's accomplishments but also cause, who knows, perhaps other folks have similar databases. Might be possible to concatenate a bunch of this into one record of what's been happening. On the other hand, probably not. Oh well...

73 -- Rick

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Keith Kaiser
> Sent: Wednesday, August 11, 2010 9:25 PM
> To: gpsl
> Subject: [GPSL] Past Flight Records
>
> The only past records of flights that may exist are those trapped in old
> eMails. Ralph did not keep a database of flights, all his records were in
1
> (one) very large Microsoft Word document. He would add a new flight,

> publish a new web page and send out the Word document to us all.
>
> I have some of the old eMails with attached documents but certainly not
all
> of them. I always thought it would be a great project to put all that into
a
> database so I kept most of them. But I don't have the resources or the
online
> database to make this happen at this time.
>
> If someone needs a specific year, let me know off-line from the mailing
list
> and I'll see if I can find what you need. I'm hoping others have old
eMails too
> because I've only been doing ARHAB since 2005, and the oldest eMail I have
> from Ralph with flight announcements is dated November 17, 2005. But I
will
> start a search in the online files that I have access to for anything
older.
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8068. RE: [GPSL] Past Flight Records

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 04:29:42 UTC
From: Rick von Glahn
Topic: 8066 Message: 8068

Hmmm, maybe a link would be appropriate.

http://www.eoss.org/ansrecap/overview/1_to_150/flight_history_1_to_150.htm

73 -- Rick

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Rick von Glahn
> Sent: Wednesday, August 11, 2010 10:27 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Past Flight Records
>
> EOSS has a page that links to individual recaps from all our past flights.

8069. Re: Announcements Database

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 15:09:33 UTC
From: n1ltv
Topic: 8033 Message: 8069

> That sounds good, but I'm not a member. My membership is pending.

Paul,

You are a member right now. I am an assistant moderator to
Rick.

> Could someone take a peak at 2005 and let me know how many
> announcements they see?

2005 message archive comprises about 250 separate emails.
Please do this task yourself since I don't think it can be
done with a "peek" if you're looking to see how many unique
flights or flight announcements were posted.

Hank

8070. History of independent, unified balloon launch announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 16:18:19 UTC
From: n1ltv
Topic: 8033 Message: 8070

> Hank N1LTV might have some older stuff too from the 90s.
>
> 73 de Mark N9XTN

Yes, Ralph Wallio is actually a newbie as far as independent, systematic posting of high altitude balloon flights go.

As far as I know, I originated the concept and practice dating at least as far back as April 1993 with Usenet postings, and then migrated that information to the massively used (1000 hits one day) central website for balloon launch notices (with a standard, uniform, *comprehensive* data format) called HABLIC (High Altitude Balloon Launch Information Center).

HABLIC operated for many years, but I eventually had to quit doing postings (for several reasons). I intended to revive HABLIC listings, but the final nail in the coffin was geocities discontinuing its free web hosting service. (I'm was totally aware that other free hosting was and is available, and in fact I use freehosting for other interests.)

Ralph adopted that concept and enhanced it with a parallel Yahoogroup email list.

Hank

8071. Re: [GPSL] History of independent, unified balloon launch announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 16:24:27 UTC
From: Joe
Topic: 8033 Message: 8071
Attachments: 1 described; binary payloads are missing from this source WARC

Is there any archives of the old Pixar list?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/12/2010 11:18 AM, n1ltv wrote:
>> Hank N1LTV might have some older stuff too from the 90s.
>>
>> 73 de Mark N9XTN
>>
> Yes, Ralph Wallio is actually a newbie as far as independent,
> systematic posting of high altitude balloon flights go.
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> As far as I know, I originated the concept and practice dating
> at least as far back as April 1993 with Usenet postings, and
> then migrated that information to the massively used (1000 hits
> one day) central website for balloon launch notices (with a
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> (High Altitude Balloon Launch Information Center).
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> HABLIC operated for many years, but I eventually had to quit
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> HABLIC listings, but the final nail in the coffin was geocities discontinuing its free web hosting service. (I'm was totally aware that other free hosting was and is available, and in fact I use freehosting for other interests.)
>
> Ralph adopted that concept and enhanced it with a parallel
> Yahoogroup email list.
>
> Hank
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

>

8072. Re: History of independent, unified balloon launch announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 16:55:55 UTC
From: n1ltv
Topic: 8033 Message: 8072

> Are there any archives of the old Pixar list?

Joe,

That would be fun and informative to look over those for sure.
One list for all ballooning in the US.

Bruce would be the best bet to have created such an archive and
to ask. I kinda think if there ever was an archive, it's probably
not still in existence, but still worth asking about.

I think I can find an email for him.

Hank

8073. ARBONET-GPSL.wmv

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 19:55:05 UTC
From: Joe
Topic: 8073 Message: 8073
Attachments: 1 described; binary payloads are missing from this source WARC

How far below the package was the parachute in this video?
ARBONET-GPSL.wmv

I was amazed how unstable it was on the way up continually collapsing
on it'self.

I wonder if the slipstream from the balloon was causing it to collapse
like that?

What type of chute was it also? it did not seem to be a round chute.

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8074. The GPSL Web Page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 20:04:57 UTC
From: Keith Kaiser
Topic: 8074 Message: 8074

Many of you may not know it but the http://superlaunch.org web site has been hosted on a number of different servers over the years. Bouncing from server to server depending on who was hosting GPSL that year. The last couple years I volunteered to maintain the site on the Near Space Ventures servers. That's why for example it always started out as <http://nearspaceventures.com/....>

Well effective today it has a permanent home. Thanks to Bill Brown who owns the superlaunch.org domain name and Troy Campbell who owns the servers it now has a permanent place to live. When you type in the URL you will see the URL in the address box. It will still take me a few days/weeks for me to finish the site and make it generic for GPSL. But I'm working on it, if you have any ideas as to what you want to see, let me know. But lets keep it off the mail list, send the idea to me...at wa0tjt@... that way the list stays for general discussion not web site specifics.

Thanks Bill, Thanks Troy this will make my life a little easier.

8075. Re: [GPSL] ARBONET-GPSL.wmv

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-12 20:11:03 UTC
From: Michael Willett
Topic: 8073 Message: 8075
Attachments: 1 described; binary payloads are missing from this source WARC

Yes, it was a round chute.

I think the balloon and chute were playing catch-up / slow down all the way up into the 60K+ area. The balloon would slow down due to the open chute and then the parachute would collapse, then the balloon would speed up and the parachute would open, cycle-after-cycle. Some was also likely due to the slip stream some due to the air movement needed to fill and open the chute. At higher altitudes the parachute becomes very ineffective, so it stayed collapsed more until it just stayed collapsed.

It was a 5' round chute, but one side was not tied up properly to the link.

The parachute was about 8-10' below the balloon.

I am not sure the text in the presentation captured the mention that I was up until 3AM working on gps firmware the day of the flight, and the video was a demonstration of two things: 1) Envelope pressure measurements realized and 2) How things really go very wrong when you are over tired and can't think. We went up there feeling pretty good, but the day of the flight everything that could go wrong, almost did.

--Michael

On 8/12/2010 2:55 PM, Joe wrote:
> How far below the package was the parachute in this video?
> ARBONET-GPSL.wmv
>
> I was amazed how unstable it was on the way up continually collapsing
> on it'self.
>
> I wonder if the slipstream from the balloon was causing it to collapse
> like that?
>
> What type of chute was it also? it did not seem to be a round chute.
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

8076. Tech Articles

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-13 16:12:14 UTC
From: Keith Kaiser
Topic: 8076 Message: 8076

I'd like to post more 'Science of HAB' stuff on our new arhab.org site. You can see whats there now, do you have any suggestions about more articles?

What's there now is the bulk of what Ralph Wallio left me when he retired. So please don't suggest I talk to him, but instead give me something new to work with.

You can send your ideas to either wa0tjt@... or arhabflights@... or even post them on one of these eMail servers if you want.

8077. Re: Tech Articles

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-13 16:56:56 UTC
From: n1ltv
Topic: 8076 Message: 8077

> I'd like to post more 'Science of HAB' stuff on our new arhab.org
> site. You can see whats there now, do you have any suggestions
> about more articles?

Keith,

It never hurts to have more good articles, and you and I
have talked about this in email before the makeover even took
place.

I would suggest moving

APRS Google Maps
On-line Balloon Track

to something like links, since they're not really science,
at least not science "articles."

> What's there now is the bulk of what Ralph Wallio left me when he
> retired.

It may be the bulk of what he left you, but it doesn't seem to be
the bulk of balloon related articles that he's put together.

One that is really useful is missing, and that's the GPS
characteristics table. You won't have to talk to Ralph to
acquire these, unless in the unlikely event he doesn't want
them posted elsewhere.

There are a couple others that are relevant, too. One looks
like it might have a numerical error in it. If it should turn
out to be in error, that should be corrected before posting.
I'll probably have Mike Manes look it over and see what he
thinks.

Hank

8078. Re: FW: update on NASA flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-14 18:06:46 UTC
From: L. Paul Verhage
Topic: 8078 Message: 8078

I don't have any flights scheduled to reach 100,000 feet. My balloons also
do not float, so they wouldn't stay up there that long.

I'm forwarding this message to the GPSL group. Does anyone here have a
flight scheduled or could they put together a flight to reach 100,000 feet
for 2 hours?.

If a lower altitude and shorter duration will work, I can help out.

If someone on GPSL can help out, please let me know. I'd like to help out
with the flight if it fits into my school schedule.

Paul

On Sat, Aug 14, 2010 at 11:36 AM, Sampogna, Michael <msampogna@...>wrote:

> Hello Paul,
> I'm Mike Sampogna, a physics teacher from Pima Community College in Tuscon
> AZ. We have had some exchange of emails over the past year or so regarding
> our LED based sensor head experiment. Forrest suggested I contact you (see
> note below).
>
> Briefly, we have been accepted to fly our payload on NASA's HASP platform
> in September 2010
> http://laspace.lsu.edu/hasp/
>
> We will be measuring the solar constant above the atmosphere and correlate
> with Forrest's simutaneous ground based measurements using the same circuit.
> The launch was scheduled for early September from Ft. Sumner, NM.
>
> Well, a recent accident with another HASP platform/balloon has caused NASA
> to cancel our launch.
> http://www.space.com/news/nasa-balloon-telescope-crash-100429.html
>
> As you can see from Forrest's note below, he felt that maybe we can hitch a
> ride on one of your balloons? Our requirement is that we be above 100,000 ft
> for a duration of 2+ hours spanning solar noon at that launch geographic
> position.
> If you feel it's possible, I'd like to discuss this further with you via
> phone call. My students have been working on this for the past 1.5 years
> and fear that they may never see their experiment take place.
>
> Any ideas you may have are most certainly welcome.
> Thanks
> Mike
>

> Michael Sampogna
> Physics Faculty
> Pima Community College
> 7600 North Shannon Road
> Tucson, AZ 85709
> 520-206-2157
> E-Mail: msampogna@...
>
>
> ------------------------------
> *From:* Forrest M. Mims III [fmims@...]
> *Sent:* Friday, August 13, 2010 12:35 PM
> *To:* Sampogna, Michael
> *Subject:* Re: update on NASA flight
>
> Mike,
>
> Very sorry about the delays and problems. Not good.
>
> Two options:
>
> 1. For a night flight, IR sky measurements would be perfect. But that will
> require a new instrument. See next option.
> 2. Bypass NASA when they are not prepared for you by flying your own
> balloon. Some serious amateur scientists like Paul Verhage regularly fly
> balloons to 100,000+ feet loaded with instruments and GPS. Paul does first
> class research in this manner--including flying an IR system that I
> suggested he try.
>
> Best regards,
>
> Forrest
>
> Forrest M. Mims III
> www.forrestmims.org
> www.sunandsky.org
>
>
> -----Original Message-----
> From: Sampogna, Michael <msampogna@...>
> To: fmims@... <fmims@...>
> Sent: Fri, Aug 13, 2010 1:34 pm
> Subject: update on NASA flight
>
> Hello Forrest,
> We just completed NASA's final payload integration with the HASP platform
> and have been certified "flight ready".
> That's the good news!! Now here comes the bad news from the flight
> director:
>

> "I regret to inform you that the NASA Balloon Program Office has canceled
> the fall 2010 campaign at Ft. Sumner, New Mexico. *This is because the
> NCT Mishap Investigation Board* has not yet finished its report (and
> probably will not until mid-September) and any required corrective actions
> specified in this report will not be implemented in time to support the
> campaign. We are currently looking at supporting the HASP 2010 flight
> during spring 2011. "
> In case you weren't aware, NASA had an accident a few months ago with one
> of their balloons on the ground prior to launch.
>
>
> We had a telecon today and NASA is attempting to get us off the ground on
> May 30th but not from Ft. Sumner. instead, it will be at NASA's site in
> Palestine Texas.
> More bad news: They will only consider a night flight of short duration
> (6-8 hrs). Well, taking data in the dark is not my idea of doing a good
> experiment..
> Now some good news: They may consider a 3 a.m. launch will get us some
> daylight. I attached a solar plot for Palestine TX...
> My question to you is: can we extrapolate the low intensity data to get
> what might have been at solar noon? If so, is it worth it??
> My feeling is that we should go along for the ride anyway and see how our
> platform holds up. Of course we will have to modify the platform angle to
> coincide with the new geographic location and azimuth.
> I know it's been a long trip witrh us but our students are really
> discouraged. We're hoping to salvage something form this. Any thoughjts are
> most welcome.
>
> take care and I hope this note finds you well...
>
> Mike
>
>

--
Onwards and Upwards,
Paul

8079. Re: [GPSL] Re: FW: update on NASA flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-14 21:29:36 UTC
From: Michael Willett
Topic: 8078 Message: 8079

The system I shared at GPSL is designed to do just that, reach max altitude and float there for X amount of time.

It is not yet proven, but should be what they need.

How much weight in the payload? I have only logged the characteristics of a 1200 Gram balloon so far, I don't know what a 3000 gram balloon characteristic would look like.

--Michael K5NOT

On 8/14/2010 1:06 PM, L. Paul Verhage wrote:
> I don't have any flights scheduled to reach 100,000 feet. My balloons
> also do not float, so they wouldn't stay up there that long.
> I'm forwarding this message to the GPSL group. Does anyone here have
> a flight scheduled or could they put together a flight to reach
> 100,000 feet for 2 hours?.
> If a lower altitude and shorter duration will work, I can help out.
> If someone on GPSL can help out, please let me know. I'd like to help
> out with the flight if it fits into my school schedule.
> Paul
>
> On Sat, Aug 14, 2010 at 11:36 AM, Sampogna, Michael
> <msampogna@... <mailto:msampogna@...>> wrote:
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> Hello Paul,
> I'm Mike Sampogna, a physics teacher from Pima Community College
> in Tuscon AZ. We have had some exchange of emails over the past
> year or so regarding our LED based sensor head experiment. Forrest
> suggested I contact you (see note below).
> Briefly, we have been accepted to fly our payload on NASA's HASP
> platform in September 2010
> http://laspace.lsu.edu/hasp/
> We will be measuring the solar constant above the atmosphere and
> correlate with Forrest's simutaneous ground based measurements
> using the same circuit. The launch was scheduled for early
> September from Ft. Sumner, NM.
> Well, a recent accident with another HASP platform/balloon has
> caused NASA to cancel our launch.
> http://www.space.com/news/nasa-balloon-telescope-crash-100429.html
> As you can see from Forrest's note below, he felt that maybe we
> can hitch a ride on one of your balloons? Our requirement is that
> we be above 100,000 ft for a duration of 2+ hours spanning solar
> noon at that launch geographic position.
> If you feel it's possible, I'd like to discuss this further with
> you via phone call. My students have been working on this for the

> past 1.5 years and fear that they may never see their experiment
> take place.
> Any ideas you may have are most certainly welcome.
> Thanks
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> Michael Sampogna
> Physics Faculty
> Pima Community College
> 7600 North Shannon Road
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> 520-206-2157
> E-Mail: msampogna@... <mailto:msampogna@...>
> ---
> *From:* Forrest M. Mims III [fmims@... <mailto:fmims@...>]
> *Sent:* Friday, August 13, 2010 12:35 PM
> *To:* Sampogna, Michael
> *Subject:* Re: update on NASA flight
>
> Mike,
> Very sorry about the delays and problems. Not good.
> Two options:
> 1. For a night flight, IR sky measurements would be perfect. But
> that will require a new instrument. See next option.
> 2. Bypass NASA when they are not prepared for you by flying your
> own balloon. Some serious amateur scientists like Paul Verhage
> regularly fly balloons to 100,000+ feet loaded with instruments
> and GPS. Paul does first class research in this manner--including
> flying an IR system that I suggested he try.
> Best regards,
>
> Forrest
>
> Forrest M. Mims III
> www.forrestmims.org <http://www.forrestmims.org/>
> www.sunandsky.org <http://www.sunandsky.org/>
>
>
> -----Original Message-----
> From: Sampogna, Michael <msampogna@...
> <mailto:msampogna@...>>
> To: fmims@... <mailto:fmims@...> <fmims@...
> <mailto:fmims@...>>
> Sent: Fri, Aug 13, 2010 1:34 pm
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>
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> take care and I hope this note finds you well...
> Mike
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> Onwards and Upwards,
> Paul
>

8080. Re: [GPSL] Re: FW: update on NASA flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-15 12:28:26 UTC
From: Dan Bowen
Topic: 8078 Message: 8080

Have you flown this yet?

Thanks,
Dan

Sent from my iPhone 4

On Aug 14, 2010, at 16:29, Michael Willett <mw@...> wrote:

>
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>
> It is not yet proven, but should be what they need.
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>>
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>> To: Sampogna, Michael
>> Subject: Re: update on NASA flight
>>
>> Mike,
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>>
>> Best regards,
>>
>> Forrest
>>

>> Forrest M. Mims III
>> www.forrestmims.org
>> www.sunandsky.org
>>
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>> From: Sampogna, Michael <msampogna@...>
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>>
>>
>> We had a telecon today and NASA is attempting to get us off the ground on May 30th but not from Ft. Sumner. instead, it will be at NASA's site in Palestine Texas.
>> More bad news: They will only consider a night flight of short duration (6-8 hrs). Well, taking data in the dark is not my idea of doing a good experiment..
>> Now some good news: They may consider a 3 a.m. launch will get us some daylight. I attached a solar plot for Palestine TX...
>> My question to you is: can we extrapolate the low intensity data to get what might have been at solar noon? If so, is it worth it??
>> My feeling is that we should go along for the ride anyway and see how our platform holds up. Of course we will have to modify the platform angle to coincide with the new geographic location and azimuth.
>> I know it's been a long trip witrh us but our students are really discouraged. We're hoping to salvage something form this. Any thoughjts are most welcome.
>>
>> take care and I hope this note finds you well...
>>
>> Mike
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>

>

8081. GPS vs 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-15 18:12:49 UTC
From: HarryM
Topic: 8081 Message: 8081

Anyone have the link to the updated GPS vs 60k data that was on Ralph's site?

73 Harry KC5TRB

8082. Re: [GPSL] Re: FW: update on NASA flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-15 18:38:12 UTC
From: Michael Willett
Topic: 8078 Message: 8082

Not yet, but we hoped to get one up in the air for the valve test next
month.

--Michael

On 8/15/2010 7:28 AM, Dan Bowen wrote:
> Have you flown this yet?
>
> Thanks,
> Dan
>
>
> Sent from my iPhone 4
>
> On Aug 14, 2010, at 16:29, Michael Willett <mw@...
> <mailto:mw@...>> wrote:
>
>>
>> The system I shared at GPSL is designed to do just that, reach max
>> altitude and float there for X amount of time.
>>
>> It is not yet proven, but should be what they need.
>>
>> How much weight in the payload? I have only logged the
>> characteristics of a 1200 Gram balloon so far, I don't know what a
>> 3000 gram balloon characteristic would look like.
>>
>> --Michael K5NOT
>>
>>
>> On 8/14/2010 1:06 PM, L. Paul Verhage wrote:
>>
>>> I don't have any flights scheduled to reach 100,000 feet. My
>>> balloons also do not float, so they wouldn't stay up there that long.
>>> I'm forwarding this message to the GPSL group. Does anyone here
>>> have a flight scheduled or could they put together a flight to reach
>>> 100,000 feet for 2 hours?.
>>> If a lower altitude and shorter duration will work, I can help out.
>>> If someone on GPSL can help out, please let me know. I'd like to
>>> help out with the flight if it fits into my school schedule.
>>> Paul
>>>
>>> On Sat, Aug 14, 2010 at 11:36 AM, Sampogna, Michael
>>> <msampogna@... <mailto:msampogna@...>> wrote:
>>>

>>> Hello Paul,
>>> I'm Mike Sampogna, a physics teacher from Pima Community College
>>> in Tuscon AZ. We have had some exchange of emails over the past
>>> year or so regarding our LED based sensor head experiment.
>>> Forrest suggested I contact you (see note below).
>>> Briefly, we have been accepted to fly our payload on NASA's HASP
>>> platform in September 2010
>>> http://laspace.lsu.edu/hasp/
>>> We will be measuring the solar constant above the atmosphere and
>>> correlate with Forrest's simutaneous ground based measurements
>>> using the same circuit. The launch was scheduled for early
>>> September from Ft. Sumner, NM.
>>> Well, a recent accident with another HASP platform/balloon has
>>> caused NASA to cancel our launch.
>>> http://www.space.com/news/nasa-balloon-telescope-crash-100429.html
>>> As you can see from Forrest's note below, he felt that maybe we
>>> can hitch a ride on one of your balloons? Our requirement is
>>> that we be above 100,000 ft for a duration of 2+ hours spanning
>>> solar noon at that launch geographic position.
>>> If you feel it's possible, I'd like to discuss this further with
>>> you via phone call. My students have been working on this for
>>> the past 1.5 years and fear that they may never see their
>>> experiment take place.
>>> Any ideas you may have are most certainly welcome.
>>> Thanks
>>> Mike
>>> Michael Sampogna
>>> Physics Faculty
>>> Pima Community College
>>> 7600 North Shannon Road
>>> Tucson, AZ 85709
>>> 520-206-2157
>>> E-Mail: msampogna@... <mailto:msampogna@...>
>>> ---
>>> *From:* Forrest M. Mims III [fmims@... <mailto:fmims@...>]
>>> *Sent:* Friday, August 13, 2010 12:35 PM
>>> *To:* Sampogna, Michael
>>> *Subject:* Re: update on NASA flight
>>>
>>> Mike,
>>> Very sorry about the delays and problems. Not good.
>>> Two options:
>>> 1. For a night flight, IR sky measurements would be perfect. But
>>> that will require a new instrument. See next option.
>>> 2. Bypass NASA when they are not prepared for you by flying your
>>> own balloon. Some serious amateur scientists like Paul Verhage
>>> regularly fly balloons to 100,000+ feet loaded with instruments
>>> and GPS. Paul does first class research in this
>>> manner--including flying an IR system that I suggested he try.
>>> Best regards,

>>>
>>> Forrest
>>>
>>> Forrest M. Mims III
>>> www.forrestmims.org <http://www.forrestmims.org>
>>> www.sunandsky.org <http://www.sunandsky.org>
>>>
>>>
>>> -----Original Message-----
>>> From: Sampogna, Michael <msampogna@...
>>> <mailto:msampogna@...>>
>>> To: fmims@... <mailto:fmims@...> <fmims@...
>>> <mailto:fmims@...>>
>>> Sent: Fri, Aug 13, 2010 1:34 pm
>>> Subject: update on NASA flight
>>>
>>> Hello Forrest,
>>> We just completed NASA's final payload integration with the HASP
>>> platform and have been certified "flight ready".
>>> That's the good news!! Now here comes the bad news from the
>>> flight director:
>>> "I regret to inform you that the NASA Balloon Program Office has
>>> canceled the fall 2010 campaign at Ft. Sumner, New Mexico. *This
>>> is because the NCT Mishap Investigation Board* has not yet
>>> finished its report (and probably will not until mid-September)
>>> and any required corrective actions specified in this report
>>> will not be implemented in time to support the campaign. We are
>>> currently looking at supporting the HASP 2010 flight during
>>> spring 2011. "
>>> In case you weren't aware, NASA had an accident a few months ago
>>> with one of their balloons on the ground prior to launch.
>>> We had a telecon today and NASA is attempting to get us off the
>>> ground on May 30th but not from Ft. Sumner. instead, it will be
>>> at NASA's site in Palestine Texas.
>>> More bad news: They will only consider a night flight of short
>>> duration (6-8 hrs). Well, taking data in the dark is not my idea
>>> of doing a good experiment..
>>> Now some good news: They may consider a 3 a.m. launch will get
>>> us some daylight. I attached a solar plot for Palestine TX...
>>> My question to you is: can we extrapolate the low intensity data
>>> to get what might have been at solar noon? If so, is it worth it??
>>> My feeling is that we should go along for the ride anyway and
>>> see how our platform holds up. Of course we will have to modify
>>> the platform angle to coincide with the new geographic location
>>> and azimuth.
>>> I know it's been a long trip witrh us but our students are
>>> really discouraged. We're hoping to salvage something form this.
>>> Any thoughjts are most welcome.
>>> take care and I hope this note finds you well...
>>> Mike

>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>
>

8083. Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-15 23:53:36 UTC
From: wb8elk@aol.com
Topic: 8083 Message: 8083

Twenty three years ago I flew my first Balloonsat from Findlay, Ohio....why August 15th?....it was my birthday. As it turns out some of the pioneering balloon group founders that popped up after that also shared my birthday: Joe Mayenschein WB9SBD of NSS and Chuck Crist W9IH of Windtrax. I know there are others in the ARHAB community that share this birthday as well, so please post a message here if this is also your birthday. There must be something about this date that causes an interest in ballooning.

I do plan a big celebration of the upcoming 25th anniversary in 2012...any and all are welcome to join in a large superlaunch event on that date in Ohio.

- Bill WB8ELK

8084. Re: [Balloonatics] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 00:26:48 UTC
From: Joe
Topic: 8083 Message: 8084
Attachments: 1 described; binary payloads are missing from this source WARC

Yup

Joe WB9SBD & Near Space Sciences 1988 August something I don't remember
our actual date if it was on the birthday or not, but I know it was
august! Happy birthday to bill and the rest of us birthday boys today!

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/15/2010 6:53 PM, wb8elk@... wrote:
> Twenty three years ago I flew my first Balloonsat from Findlay, Ohio....why August 15th?....it was my birthday. As it turns out some of the pioneering balloon group founders that popped up after that also shared my birthday: Joe Mayenschein WB9SBD of NSS and Chuck Crist W9IH of Windtrax. I know there are others in the ARHAB community that share this birthday as well, so please post a message here if this is also your birthday. There must be something about this date that causes an interest in ballooning.
>
> I do plan a big celebration of the upcoming 25th anniversary in 2012...any and all are welcome to join in a large superlaunch event on that date in Ohio.
>
> - Bill WB8ELK
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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8085. Re: [GPSL] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 00:24:44 UTC
From: Keith Kaiser
Topic: 8083 Message: 8085

Today 8/15 is also Troy Campbell's (KC0MIC) birthday.

On Aug 15, 2010, at 6:53 PM, wb8elk@... wrote:

>
> Twenty three years ago I flew my first Balloonsat from Findlay, Ohio....why August 15th?....it was my birthday. As it turns out some of the pioneering balloon group founders that popped up after that also shared my birthday: Joe Mayenschein WB9SBD of NSS and Chuck Crist W9IH of Windtrax. I know there are others in the ARHAB community that share this birthday as well, so please post a message here if this is also your birthday. There must be something about this date that causes an interest in ballooning.
>
> I do plan a big celebration of the upcoming 25th anniversary in 2012...any and all are welcome to join in a large superlaunch event on that date in Ohio.
>
> - Bill WB8ELK
>
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>

8086. Re: [GPSL] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 00:35:43 UTC
From: Pete Lilja
Topic: 8083 Message: 8086

Birthday probability <http://en.wikipedia.org/wiki/Birthday_problem> is a
fun exercise. But it doesn't specifically relate to Bill's 8/15.

Mine is 9/30.

Pete
KC0GPB

On Sun, Aug 15, 2010 at 7:24 PM, Keith Kaiser <wa0tjt@gmail.com> wrote:

>
>
> Today 8/15 is also Troy Campbell's (KC0MIC) birthday.
>
>
> On Aug 15, 2010, at 6:53 PM, wb8elk@... wrote:
>
>
>
> Twenty three years ago I flew my first Balloonsat from Findlay, Ohio....why
> August 15th?....it was my birthday. As it turns out some of the pioneering
> balloon group founders that popped up after that also shared my birthday:
> Joe Mayenschein WB9SBD of NSS and Chuck Crist W9IH of Windtrax. I know there
> are others in the ARHAB community that share this birthday as well,
> so please post a message here if this is also your birthday. There must be
> something about this date that causes an interest in ballooning.
>
> I do plan a big celebration of the upcoming 25th anniversary in 2012...any
> and all are welcome to join in a large superlaunch event on that date in
> Ohio.
>
> - Bill WB8ELK
>
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8087. Re: [GPSL] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 00:44:47 UTC
From: Roger Hammond
Topic: 8083 Message: 8087

Happy Birthday Bill and thanks for starting all this madness!

Roger KC0MWM
CNNSP

On Aug 15, 2010 7:35 PM, "Pete Lilja" <plilja@...> wrote:

Birthday probability <http://en.wikipedia.org/wiki/Birthday_problem> is a
fun exercise. But it doesn't specifically relate to Bill's 8/15.

Mine is 9/30.

Pete
KC0GPB

On Sun, Aug 15, 2010 at 7:24 PM, Keith Kaiser <wa0tjt@...> wrote:
>
>
>
> Today 8/15 is al...

Your email settings: Individual Email|Traditional
Change settings via the Web (Yahoo! ID require...

8088. Re: [Balloonatics] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 01:38:58 UTC
From: Mike Manes
Topic: 8083 Message: 8088

Happy Birthday, Bill!

And thanks for the big gift that you gave ham radio in the form of a whole new specialty.

73 de Mike W5VSI

On 8/15/2010 17:53, wb8elk@... wrote:
>
> Twenty three years ago I flew my first Balloonsat from Findlay, Ohio....why August 15th?....it was my birthday. As it turns out some of the pioneering balloon group founders that popped up after that also shared my birthday: Joe Mayenschein WB9SBD of NSS and Chuck Crist W9IH of Windtrax. I know there are others in the ARHAB community that share this birthday as well, so please post a message here if this is also your birthday. There must be something about this date that causes an interest in ballooning.
>
> I do plan a big celebration of the upcoming 25th anniversary in 2012...any and all are welcome to join in a large superlaunch event on that date in Ohio.
>
> - Bill WB8ELK
>
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8089. Re: [Ballooning] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 01:58:18 UTC
From: Michael Willett
Topic: 8083 Message: 8089

Happy Birthday Bill!

Thanks for starting a hobby that has challenged this mind for so very
many hours! I hope to be there in 2012!

--Michael K5NOT

On 8/15/2010 6:53 PM, wb8elk@... wrote:
>
> Twenty three years ago I flew my first Balloonsat from Findlay,
> Ohio....why August 15th?....it was my birthday. As it turns out some
> of the pioneering balloon group founders that popped up after that
> also shared my birthday: Joe Mayenschein WB9SBD of NSS and Chuck
> Crist W9IH of Windtrax. I know there are others in the ARHAB community
> that share this birthday as well, so please post a message here if
> this is also your birthday. There must be something about this date
> that causes an interest in ballooning.
> I do plan a big celebration of the upcoming 25th anniversary in
> 2012...any and all are welcome to join in a large superlaunch event on
> that date in Ohio.
> - Bill WB8ELK
>
>
>

8090. Re: [Ballooning] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 02:35:05 UTC
From: Nicholas
Topic: 8083 Message: 8090

Bill, I enjoyed celebrating your 20th anniversary with you and plan to attend the 25th and launch another with you.

Regards,
Nick Stich
K0NMS

> > I do plan a big celebration of the upcoming 25th anniversary in
> > 2012...any and all are welcome to join in a large superlaunch event on
> > that date in Ohio.
> > - Bill WB8ELK

8091. Re: [GPSL] Re: [Ballooning] Happy 23rd anniversary for ARHAB flights in the US

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 15:00:45 UTC
From: L. Paul Verhage
Topic: 8083 Message: 8091

Thre cheers!!!!

Happy B-Day to each and all.

Thanks Bill for getting this hobby off the ground (in more than one way). I wouldn't be doing the great stuff I'm doing now i it had not been for you.

Best,
Paul

PS, a
Anyone an April 19th?

On Sun, Aug 15, 2010 at 9:35 PM, Nicholas <NStich@...> wrote:

> Bill, I enjoyed celebrating your 20th anniversary with you and plan to
> attend the 25th and launch another with you.
>
> Regards,
> Nick Stich
> K0NMS
>
> > > I do plan a big celebration of the upcoming 25th anniversary in
> > > 2012...any and all are welcome to join in a large superlaunch event on
> > > that date in Ohio.
> > > - Bill WB8ELK
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8092. Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 16:30:04 UTC
From: Keith Kaiser
Topic: 8092 Message: 8092

In web design one of the most difficult things to do is make sure your design works in the browsers your customers use. Todays web design is very robust, there are an incredible number of things I can do with just straight HTML, CSS and JavaScript. The problem arises in compatibility with each individual browser.

Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for. But many people in the Windows world never move out of their less than capable Internet Explorer 6 environment. I would like to do some of the Web 2.0 type things in the various ARHAB.ORG pages, reports for example. But I'm concerned about our communities ability to use them if I do.

So I'm taking a little pole here to find out what browsers you are using. We are all high-tech kind of people so I hope I find the majority using modern browsers. But here is your chance to tell me otherwise.

What browser and version are you using?

Should I write for just modern browsers (see list above) or stick with the out of date?

Thanks....

8093. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 16:38:36 UTC
From: Zack Clobes
Topic: 8092 Message: 8093

As a web designer myself, I understand your dilemma, and have traditionally tended to stick with the older "lowest common denominator" mentality. Recently however, I've began to conclude that those who insist on running IE6 and the likes, are probably getting pretty used to sites not working correctly for them.

Move forward is my advice.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Aug 16, 2010 at 11:30 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> In web design one of the most difficult things to do is make sure your
> design works in the browsers your customers use. Todays web design is very
> robust, there are an incredible number of things I can do with just straight
> HTML, CSS and JavaScript. The problem arises in compatibility with each
> individual browser.
>
> Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for. But
> many people in the Windows world never move out of their less than capable
> Internet Explorer 6 environment. I would like to do some of the Web 2.0 type
> things in the various ARHAB.ORG pages, reports for example. But I'm
> concerned about our communities ability to use them if I do.
>
> So I'm taking a little pole here to find out what browsers you are using.
> We are all high-tech kind of people so I hope I find the majority using
> modern browsers. But here is your chance to tell me otherwise.
>
> What browser and version are you using?
>
> Should I write for just modern browsers (see list above) or stick with the
> out of date?
>
> Thanks....
>
>
>

8094. Dates/Location for GPSL 2011?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 16:40:00 UTC
From: Zack Clobes
Topic: 8094 Message: 8094

I realize it's pretty early, but have any official dates been set for the next GPSL? Also, I know we're planning on launching from the Pueblo area, but where will the symposium be held?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

8095. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 16:45:40 UTC
From: Michael Willett
Topic: 8092 Message: 8095

Latest Fire fox here, and I believe you can look at your ISP web server stats file to see what browsers and rev levels of those browsers have hit your site.

I think even win 98 (Mike M?) can run the latest browsers.

When you try to make something that is all things to all people, you never end up with anything as good as it could be. How's that quote go?... You can please some of the people all of the time and all of the people some of the time, but you will never make a liar out of Nixon.

--Michael K5NOT

On 8/16/2010 11:30 AM, Keith Kaiser wrote:
>
> In web design one of the most difficult things to do is make sure your
> design works in the browsers your customers use. Todays web design is
> very robust, there are an incredible number of things I can do with
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> Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for.
> But many people in the Windows world never move out of their less than
> capable Internet Explorer 6 environment. I would like to do some of
> the Web 2.0 type things in the various ARHAB.ORG pages, reports for
> example. But I'm concerned about our communities ability to use them
> if I do.
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> So I'm taking a little pole here to find out what browsers you are
> using. We are all high-tech kind of people so I hope I find the
> majority using modern browsers. But here is your chance to tell me
> otherwise.
>
> What browser and version are you using?
>
> Should I write for just modern browsers (see list above) or stick with
> the out of date?
>
> Thanks....
>
>

8096. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 16:57:27 UTC
From: Joe
Topic: 8092 Message: 8096
Attachments: 1 described; binary payloads are missing from this source WARC

Latest and greatest Firefox here as well as IE also. and like you also
several offbeat browsers too.

What I used to do when i was big into making pages I made mirror
versions. two complete seperate pages.

One fancy and state of the art and one basic.

Kinda like Broadband vs dilup, or HTML mail vs TXT only,

and the front door page of each had a link to the other.

worked pretty good a LOT of work tho.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/16/2010 11:30 AM, Keith Kaiser wrote:
> In web design one of the most difficult things to do is make sure your design works in the browsers your customers use. Todays web design is very robust, there are an incredible number of things I can do with just straight HTML, CSS and JavaScript. The problem arises in compatibility with each individual browser.
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>
> Thanks....
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> Yahoo! Groups Links
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8097. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 17:04:36 UTC
From: Joe
Topic: 8092 Message: 8097
Attachments: 1 described; binary payloads are missing from this source WARC

an awesome way to see what using ur page is to use this one counter i
use. it's fast and really finds out a lot of stuff go to my clock page
and on the front page way at the bottom is the link to the counter

http://idle-tyme.com/

take the link to the counter and yoy can see all sorts of stuff, from
the browser status used. (Mozilla) is #1 (firefox) Ie 7 is in there
too as well as many many others.

One ting i find very nteresting and sometimes funny is the link that
says URL address <http://cqcounter.com/?sts,l20url,,,,IdleTyme>

That one shows what page people wee at just before coming to your page.
so you can see what in sending people to you or whatever.

sometimes it funny,, some people are really nasty! he he he pervs!
he he he anyway, that counter tells you a ton of stuff and it's free too.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/16/2010 11:45 AM, Michael Willett wrote:
>
>
>
> Latest Fire fox here, and I believe you can look at your ISP web
> server stats file to see what browsers and rev levels of those
> browsers have hit your site.
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> I think even win 98 (Mike M?) can run the latest browsers.
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> When you try to make something that is all things to all people, you
> never end up with anything as good as it could be. How's that quote
> go?... You can please some of the people all of the time and all of
> the people some of the time, but you will never make a liar out of Nixon.
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> --Michael K5NOT
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> On 8/16/2010 11:30 AM, Keith Kaiser wrote:
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>> In web design one of the most difficult things to do is make sure
>> your design works in the browsers your customers use. Todays web
>> design is very robust, there are an incredible number of things I can
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>> less than capable Internet Explorer 6 environment. I would like to do
>> some of the Web 2.0 type things in the various ARHAB.ORG pages,
>> reports for example. But I'm concerned about our communities ability
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>> using. We are all high-tech kind of people so I hope I find the
>> majority using modern browsers. But here is your chance to tell me
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>> What browser and version are you using?
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>> Should I write for just modern browsers (see list above) or stick
>> with the out of date?
>>
>> Thanks....
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>

8098. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 17:08:34 UTC
From: Roger Hammond
Topic: 8092 Message: 8098

FireFox 3.6.8

I concur. Move forward.

Rog KC0MWM

On Mon, Aug 16, 2010 at 11:30 AM, Keith Kaiser <wa0tjt@...> wrote:

> In web design one of the most difficult things to do is make sure your
> design works in the browsers your customers use. Todays web design is very
> robust, there are an incredible number of things I can do with just straight
> HTML, CSS and JavaScript. The problem arises in compatibility with each
> individual browser.
>
> Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for. But
> many people in the Windows world never move out of their less than capable
> Internet Explorer 6 environment. I would like to do some of the Web 2.0 type
> things in the various ARHAB.ORG pages, reports for example. But I'm
> concerned about our communities ability to use them if I do.
>
> So I'm taking a little pole here to find out what browsers you are using.
> We are all high-tech kind of people so I hope I find the majority using
> modern browsers. But here is your chance to tell me otherwise.
>
> What browser and version are you using?
>
> Should I write for just modern browsers (see list above) or stick with the
> out of date?
>
> Thanks....
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

8099. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 18:49:37 UTC
From: HarryM
Topic: 8092 Message: 8099

GOOGLE Chrome 5

73 Harry KC5TRB

> What browser and version are you using?

8100. Re: [GPSL] GPS vs 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 18:54:28 UTC
From: HarryM
Topic: 8081 Message: 8100

BUMP!

☐
Anyone have the link to the updated GPS vs 60k data that was on Ralph's site?

73 Harry KC5TRB

8101. RE: [GPSL] GPS vs 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 19:16:16 UTC
From: Rick von Glahn
Topic: 8081 Message: 8101
Attachments: 1 described; binary payloads are missing from this source WARC

I did a little digging and found this capture of the GPS vs altitude report from May 2007. It is a good starting place. I have no idea what was added after that date.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of HarryM
Sent: Sunday, August 15, 2010 12:13 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPS vs 60k

☐

Anyone have the link to the updated GPS vs 60k data that was on Ralph's site?

73 Harry KC5TRB

8102. Re: [GPSL] GPS vs 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 19:23:45 UTC
From: Keith Kaiser
Topic: 8081 Message: 8102

This is one of the very few pages I did not capture from Ralph's site. I found it to be so far out of date that I just couldn't justify it for the new site.

My bad!

If someone locates it, I'll spend the time to clean it up (no small task on his old pages) and post it on the new site.

Sorry guys!

I still have a lot of work to do on the 'report' pages. Getting them out of MS Word and reformatted for the real world is taking more time than I every dreamed it would. But progress as slow as it is, is moving forward.

On Aug 16, 2010, at 1:54 PM, HarryM wrote:

> □
>
> BUMP!
>
>
> □
> Anyone have the link to the updated GPS vs 60k data that was on Ralph's site?
>
> 73 Harry KC5TRB
>
>
>

8103. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 19:21:25 UTC
From: James Hannon
Topic: 8092 Message: 8103

I am stuck with IE7 at work because that is what they let us use, otherwise I use the latest FireFox.Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "Keith Kaiser" <wa0tjt@...>
Sent 8/16/2010 11:30:04 AM
To: "gpsl" <GPSL@yahoogroups.com>
Subject: [GPSL] Web DesignIn web design one of the most difficult things to do is make sure your design works in the browsers your customers use. Todays web design is very robust, there are an incredible number of things I can do with just straight HTML, CSS and JavaScript. The problem arises in compatibility with each individual browser.
Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for. But many people in the Windows world never move out of their less than capable Internet Explorer 6 environment. I would like to do some of the Web 2.0 type things in the various ARHAB.ORG pages, reports for example. But I'm concerned about our communities ability to use them if I do.
So I'm taking a little pole here to find out what browsers you are using. We are all high-tech kind of people so I hope I find the majority using modern browsers. But here is your chance to tell me otherwise.
What browser and version are you using?
Should I write for just modern browsers (see list above) or stick with the out of date?
Thanks....

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

8104. GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 19:31:09 UTC
From: Keith Kaiser
Topic: 8104 Message: 8104

I've uploaded the page. You can see it under the 'Science' tab on arhab.org.

I have not cleaned it up yet, I'll do that asap.

8105. Re: [GPSL] GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 19:42:26 UTC
From: dvpatterson@comcast.net
Topic: 8104 Message: 8105

Here's a link:

http ://showcase. netins .net/web/ wallio /GPSrcvrsvs60kft. htm

It looks like the above page has info on it that is not contained in the arhab .org page.

Keith - it's been a while since I'd visited the arhab .org site - it looks awesome! Keep up the good work, it's much appreciated.

-David, KB9QLS

----- Original Message -----
From: "Keith Kaiser" <wa0tjt@ gmail .com>
To: " gpsl " < GPSL @ yahoogroups .com>
Sent: Monday, August 16, 2010 1:31:09 PM
Subject: [GPSL] GPS Vs. 60k

I've uploaded the page. You can see it under the 'Science' tab on arhab .org.

I have not cleaned it up yet, I'll do that asap.

8106. Re: [GPSL] Web Design

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 23:21:51 UTC
From: Mike Manes
Topic: 8092 Message: 8106

My 300 MHz P2 laptop is stuck with W98 and Firefox 2.x, but I run W2K and Firefox 3.6.8 from home.
Thanks for the thought.
73 de Mike W5VSI

On 8/16/2010 10:45, Michael Willett wrote:
>
>
>
> Latest Fire fox here, and I believe you can look at your ISP web server stats
> file to see what browsers and rev levels of those browsers have hit your site.
>
> I think even win 98 (Mike M?) can run the latest browsers.
>
> When you try to make something that is all things to all people, you never end
> up with anything as good as it could be. How's that quote go?... You can
> please some of the people all of the time and all of the people some of the
> time, but you will never make a liar out of Nixon.
>
> --Michael K5NOT
>
>
> On 8/16/2010 11:30 AM, Keith Kaiser wrote:
>>
>> In web design one of the most difficult things to do is make sure your
>> design works in the browsers your customers use. Todays web design is very
>> robust, there are an incredible number of things I can do with just straight
>> HTML, CSS and JavaScript. The problem arises in compatibility with each
>> individual browser.
>>
>> Moder browsers (IE >8, FireFox, Safari, Chrome) are easy to write for. But
>> many people in the Windows world never move out of their less than capable
>> Internet Explorer 6 environment. I would like to do some of the Web 2.0 type
>> things in the various ARHAB.ORG pages, reports for example. But I'm
>> concerned about our communities ability to use them if I do.
>>
>> So I'm taking a little pole here to find out what browsers you are using. We
>> are all high-tech kind of people so I hope I find the majority using modern
>> browsers. But here is your chance to tell me otherwise.
>>
>> What browser and version are you using?
>>
>> Should I write for just modern browsers (see list above) or stick with the
>> out of date?
>>

>> Thanks....
>>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8107. Re: [GPSL] GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-16 23:43:46 UTC
From: HarryM
Topic: 8104 Message: 8107

Rick - Keith - David,

Thanks for the info & link. I looked all over for the page and failed to find it.
I'm working with a couple OEM GPS boards and I wanted to see if they were listed.

73 Harry KC5TRB

8108. Re: [GPSL] GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 01:25:06 UTC
From: Keith Kaiser
Topic: 8104 Message: 8108

Here is a direct link. But the page is not optimized and looks like.... I'll work on it asap.
http://www.arhab.org/science/science/gpsv60k.html

On Aug 16, 2010, at 6:43 PM, HarryM wrote:

> □
>
> Rick - Keith - David,
>
> Thanks for the info & link. I looked all over for the page and failed to find it.
> I'm working with a couple OEM GPS boards and I wanted to see if they were listed.
>
>
> 73 Harry KC5TRB
>
>
>

8109. Re: [GPSL] GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 02:36:58 UTC
From: HarryM
Topic: 8104 Message: 8109

You're doing a GREAT job on the site Keith!

73 Harry KC5TRB

Here is a direct link. But the page is not optimized and looks like.... I'll work on it asap.

8110. Re: GPS vs 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 03:33:52 UTC
From: n1ltv
Topic: 8081 Message: 8110

> I did a little digging and found this capture of the GPS vs altitude > report from May 2007.

I have the very latest version, dated by Ralph June 7, 2009.
Until very recently, there were links at the Wallio homepage
that pointed to the file at Ralph's site. The file itself is
still at the Wallio website, just at an undisclosed location:

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

I also have all the other balloon relevant Wallio articles that
I will email to Keith, with the exception of one that I believe
has a significant numerical error. I will endeavor to confirm
the error, rewrite the section with corrections, and then send
it to Keith.

Hank

8111. Re: GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 03:59:39 UTC
From: n1ltv
Topic: 8104 Message: 8111

KK> But the page is not optimized

Keith,

Optimized for what?

KK> and looks like....

Just what do you mean by "looks like ...." ?

Are you some kind of web page Rembrandt? :)

Looks fine to me (usually with Firefox), and a lot more
informative now that it's on arhab.org, compared to when
it wasn't on the page. Better to "look like ...." as you
say, and be on a website; then to not be on a website and be invisible.

You just said this,

KK> We are all high-tech kind of people ....

so I thought you got it that it's about content, first and
foremost. Style and cosmetics should be secondary to raw
content.

KK> I found it to be so far out of date that I just couldn't
KK> justify it for the new site.

This GPS information Ralph collected pertains to a range of a
GPS devices that spanned many years of production. It, of
necessity, has some observations that are more than a few
years old.

That doesn't mean it's outdated information or obsolete
information, just accurate information that pertains to older
devices, many of which are still being used and some of which
may even be readily available in the surplus market.

Hank

8112. Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 08:20:46 UTC
From: wb8elk@aol.com
Topic: 8112 Message: 8112

I hitched a ride on the weekly Ozonesonde flight last Saturday to test out the final design of my Multi-Mode Transmitter and also attached a 100 milliwatt 915 MHz Zigbee XSC PRO module with a stock SMA rubber duck antenna. My MMT unit sent out the same telemetry string at 4800 baud to the Zigbee module (RF link was at 9600 baud) as was being sent down on DominoEx and 300 baud ASCII on 144.34 MHz.

Using an 8 dBi gain patch antenna on the ground with another Zigbee module mounted to the back of the patch antenna and hooked to my netbook via a USB interface, I was very pleased to copy quite a few transmissions directly from the balloon during the flight. The longest slant range distance was approximately 20 miles distance. I was even able to pull down some telemetry frames when the balloon was 19 miles directly above my house, which is right in the null zone off the end of the rubber duck antenna.

I was also able to copy a number of frames during the chase with the patch inside the car in the back window.

I was not able to receive anything using an omni gain antenna, so the 8 dBi patch would seem to be the minimum of what is required for this. I'm going to try a high-gain yagi in the next week or two and that should give me great copy on it as well as the ability to send commands up to the balloon.

- Bill WB8ELK
www,wb8elk.com

8113. Re: [GPSL] Re: GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 14:04:32 UTC
From: Keith Kaiser
Topic: 8104 Message: 8113

I'm no Rembrandt but if I'm going to spend time on something, I want it to look and work good. You think the page looks OK, I'm glad, take a look at the 'source' and you'll see what I mean. You ask "optimized for what?" for maintenance, that's what.

It is a bear of a lot of work to fix the pages Ralph left in his wake. More power to him for being able to maintain such things but fixing them takes a lot of work and a lot of time. You might ask "fix what". Not a bad question except that to maintain a web page is usually far more work than creating it in the first place. In the case of Ralph all his pages were created with the absolutely, no one will argue, worst possible editor on earth for doing such things.....MS Word. It's easy to make a page using it, just save as HTML. But just you try and be a web master and maintain such a thing. That's why I give Ralph so much credit for what he did, it was a monster job and he did it for many years.

Well, I have a full time job, a large family, grandchildren, and my time is valuable to me. So while I love to be the web master, you'll have to give me the credit to work on these things as I see fit. Unless you might want to pay for a professional web developer. I may have called the importance of this GPS page wrong, but I'm now doing the best I can to get it back up and running for everyone. If it looks OK now it's because I took my time to go and fix it. It will look better when I have a chance to spend more time with it.

I appreciate all the kind words from the members of this list who have acknowledged my work on these pages. It will continue, and again if I missed something essential to your operation or just something that would make a good addition to the pages, please let me know. For those who are unhappy with my work, please let me know that too, I have plenty of work I can share with you to work on yourself.

On Aug 16, 2010, at 10:59 PM, n1ltv wrote:

> KK> But the page is not optimized
>
> Keith,
>
> Optimized for what?
>
> KK> and looks like....
>
> Just what do you mean by "looks like ...." ?
>
> Are you some kind of web page Rembrandt? :)
>
> Looks fine to me (usually with Firefox), and a lot more
> informative now that it's on arhab.org, compared to when
> it wasn't on the page. Better to "look like ...." as you
> say, and be on a website; then to not be on a website and be invisible.
>
> You just said this,

>
> KK> We are all high-tech kind of people ....
>
> so I thought you got it that it's about content, first and
> foremost. Style and cosmetics should be secondary to raw
> content.
>
> KK> I found it to be so far out of date that I just couldn't
> KK> justify it for the new site.
>
> This GPS information Ralph collected pertains to a range of a
> GPS devices that spanned many years of production. It, of
> necessity, has some observations that are more than a few
> years old.
>
> That doesn't mean it's outdated information or obsolete
> information, just accurate information that pertains to older
> devices, many of which are still being used and some of which
> may even be readily available in the surplus market.
>
> Hank
>
>

8114. Re: GPS Vs. 60k

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 16:15:06 UTC
From: n1ltv
Topic: 8104 Message: 8114

> I'm no Rembrandt but if I'm going to spend time on something, I
> want it to look and work good. You think the page looks OK, I'm
> glad, take a look at the 'source' and you'll see what I mean.

Keith,

I may have needed to be clearer about exactly *what* looks okay and
what *looks okay* means.

I mean the exact unadulterated GPS html file, as created and still
present on the Wallio website, and as I have provided a link to on
GPSL before (GPSL message #8110, posted Monday), and will again now,
looks **perfectly good**, and as far as what any user of the ARHAB
website is concerned, needs no fixing by you or anyone else right now.

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

Whenever I refer to qualities of html files, I'm refering to
the "look and information content" from the user's point of view,
not what the source "looks" like or what qualities the source
may have as to maintainability or other desirable characteristics.

Your explanation of optimized was welcome and necessary because
I'm pretty sure a lot (maybe most) of GPSL subscribers did not know
what you meant by optimized. Thanks for clearing that vagueness up.

I have taken a look at your new, optimized html, remember this
is with regard to its rendering in appearance by the web browser
of an ARHAB website user, and to this casual viewer it **looks**
the **same**, no better, no worse.

Your optimized main html file is now bigger in bytes than it was
before optimization (101k vs. 93k), but if that increase gives better
maintainability, fine, it's only a small increase.

> So while I love to be the web master, you'll have to give me the
> credit to work on these things as I see fit.

I'm not sure that's the best policy with your limited time. I would
like you to pledge to not spend time fixing things that aren't broke,
particularly if you have family demands (see more about this below
when direct uploading of unlatered Wallio files is mentioned).

> Unless you might want to pay for a professional web developer.

That is entirely not necessary because you seem to be insisting on
doing things that don't really need doing.

> I may have called the importance of this GPS page wrong, but I'm
> now doing the best I can to get it back up and running for
> everyone.

All that was required was a simple upload of the GPS html file Ralph uploaded. That's it. If you want to create more work for yourself, I guess that's your choice.

"... GPS page ....get it back up and running for everyone."

Keith, please, this is not a complex process. You take a file and upload it. That's it. It's not a big deal.

You also said it R. Wallio's GPS file "looked like ...." Now I can be blunt, but I'd never say that on a forum about someone's excellent and meticulous work of compilation.

> If it looks OK now it's because I took my time to go and fix it.
> It will look better when I have a chance to spend more time with
> it.

It look okay now, because it looks identical to what it looked like before you worked on it. You didn't improve anything about its appearance as far as I can tell. Please don't spend any more time on making it look better because it looked fine as Ralph did it several years ago and it looks perfectly fine now.

> For those who are unhappy with my work, please let me know that
> too, I have plenty of work I can share with you to work on
> yourself.

I **very much appreciate** your willingness to do the ARHAB website, but I am unhappy with the way you're going about it as you can see, and I'm explaining my reasoning so you and all who read GPSL to understand why I feel that way.

I have several very **valuable** html files from Ralph that need absolutely NO modification when uploaded to ARHAB or any other website. I foresee no need for maintenance of any of these files.

I would request that you upload these files **as is**, and use the time you might have spent optimizing or otherwise modifying them to spend with your family.

> For those who are unhappy with my work, please let me know
> that too, I have plenty of work I can share with you to work
> on yourself.

As you know, through email to you over several months, I've been making suggestions about ARHAB content and form. I'm sure others have as well.

I think I could contribute to making technical information
getting posted more easily, efficiently, and accurately to ARHAB. So, I hereby volunteer to do some website work in that area, but I must be able to upload files, that are not broken, just as they are, and not be required to fix them when nothing needs to be fixed.

I could also serve as a technical editor of such files, calling
on other seasoned experts such as Mike Manes, Mark Conner, and
others to assist with that task as needed.

Hank

8115. Re: Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 16:44:27 UTC
From: n1ltv
Topic: 8112 Message: 8115

> I hitched a ride on the weekly Ozonesonde flight last Saturday to
> test out the final design of my Multi-Mode Transmitter and also
> attached a 100 milliwatt 915 MHz Zigbee XSC PRO module with a stock
> SMA rubber duck antenna. My MMT unit sent out the same telemetry
> string at 4800 baud to the Zigbee module (RF link was at 9600 baud)
> as was being sent down on DominoEx and 300 baud ASCII on 144.34 MHz.

Bill,

It's always great to hear what you're doing and how it's
going (signal performance-wise).

I'm one of the few people who've used ASCII other than yourself.
I used much slower than 300 baud for better s/n. We use OOK
for ASCII -- what modulation mode did you use?

What was the performance of the other modes, and what powers/
antennas were used?

Hank

8116. Differences of philosophy about how to build ARHAB.org

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 17:21:55 UTC
From: n1ltv
Topic: 8104 Message: 8116

HR> Please don't spend any more time on making it [Wallio
HR> GPS 60k file] look better because it looked fine as Ralph
HR> did it several years ago and it looks perfectly fine now
HR> [as presently available at the R. Wallio website in its
HR> original, unaltered form].

Also as late as June of last year, the latest revision.

Hank

8117. Re: [GPSL] Differences of philosophy about how to build ARHAB.org

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 17:56:58 UTC
From: Hank Riley
Topic: 8104 Message: 8117

I have just received an email from Keith Kaiser which is kind of ludicrous -- it's his response to my email which I attempted to carefully and thoughtfully word so as to not create unwanted misunderstandings. I guess it still wasn't done well enough for Keith.

I think Keith at this point is not listening too carefully and taking this all too personally. I acknowledged some of Keith's valid points, and commended him on his willingness to take on the ARHAB.org project. I have no problem mixing approval and praise for a person in the same message as disagreement and constructive criticism. I'm not too sure about Keith, especially in view of this this latest email to me which he has chosen not to post to GPSL. (It's not what I would call off-the-wall, but kind of semi-irrelevant to what I'm trying to convey.)

The main point is that I will not split this thread between public and private. This is an important issue and it deserves to be discussed fully in a public forum, with no private outtakes.

So Keith, please either post to GPSL what you emailed to me (leaving out the 90k html source -- I and everyone else knows how to read source if they want to), or prepare a new, hopefully more rational response to the points I've raised and post that to GPSL.

Hank

8118. Re: Differences of philosophy about how to build ARHAB.org

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 18:03:15 UTC
From: n1ltv
Topic: 8104 Message: 8118

> I think I could contribute to making technical information
> getting posted more easily, efficiently, and accurately to ARHAB.
> So, I hereby volunteer to do some website work in that area, but I
> must be able to upload files, that are not broken, just as they
> are, and not be required to fix them when nothing needs to be
> fixed.
>
> I could also serve as a technical editor of such files, calling
> on other seasoned experts such as Mike Manes, Mark Conner, and
> others to assist with that task as needed.
>
> Hank

Keith,

What do you say to this offer? Please reply in public this
time, not in private email.

Hank

8119. Re: [GPSL] Differences of philosophy about how to build ARHAB.org

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 18:42:48 UTC
From: Keith Kaiser
Topic: 8104 Message: 8119

Happy to oblige you Hank. Please find below the entire text of what I sent. Including the 90k file which is exactly the point I'm trying to make about maintaining this site. Be aware that the file in question is the GPS vs 60K Ft. report. But Hank, this is it. I will NOT justify you by responding to any additional comments from you. All others may send me whatever comments they wish, even criticism. --- Copy of my note to Hank starts here --- Off line this time. First I have made no changes to the file from Ralph... none, I have not "optimized" it for any use as of now. I simply changed the method of displaying it. I have however changed massively the files we use to report records. That process is now complete and I will take a look at the GPS file we have been discussing. In no way have I ever criticized Ralph's work, only the editor he used to do it. In fact I'm blown away by his work, always have been and will alway appreciate the efforts he put in. They were above and beyond, so don't reflect your feelings about him on me. Unless you are a webmaster, I really don't care if you think the file is OK or not. Maintenance of the file is far more important than its one time look. Below is the file source, look it over, tell me you would like to maintain this. When I'm done "optimizing" it I'll send you another copy and unless you're blind you'll see a massive difference especially in maintainability. To illustrate this, pretend you want to add a new row to the table, a new GPS has just come on the market, pretend to add its profile to this record below. I'm sure even you will agree that even finding where to appropriately add the new record is cumbersome. The file IS broke, even Ralph admitted as much, in fact it's one of the reasons he quit doing the updates. They were getting so much out of his control he didn't have the time or want to spend the time doing it any longer. I've spent more than 50 hours working on the arhab.org web site, another 10 on superlaunch.org. Constructive criticism is always welcome, criticism for the sake of criticism is not. W0RPK GPSv60KFT

GPS RECEIVERS vs 60KFT
Ralph Wallio, WÃ˜RPK W0RPK at netINS.net
Updated 07Jun09

The 60kft limit (aka 18km) is one of the three vehicle dynamics limitations placed on GPS receivers for we civilian unwashed, altitude, vehicle velocity and acceleration. GPS receiver manufacturers are allowed some leeway to juggle the values of these limits to serve their markets so details vary between manufacturers, between models from the same manufacturer and even between software versions in the same model. The 60kft (18km) upper limit of controlled airspace is the altitude limit most often used.

Amateur high altitude balloonists have discovered a few GPS receivers that allow operation above 60kft and often announce their findings to our small community. I have yet to hear of balloonists using expensive GPS simulators for this test so this knowledge results from actually flying receivers above 60kft and experiencing the results. This web page is intended to gather first person information submitted by individuals and groups that have tested receivers.

We will need to be picky about models, software versions and dates so submitted information will need to include:

Manufacturer
Model number (complete)
Software version (often output at power-up)
Individual or group involved in test
Date of test
Test result (Pass or fail)
Other relevant information

RECEIVERS THAT PASS THE 60KFT TEST

MANUFACTURER

MODEL

SOFTWARE

TESTED BY

TEST DATE

DATE POSTED

DeLorme

TripMate

(Rockwell ZODIAC chip set and commands)

TBD

ARSAT (N5SNN)

10Sep05

18Mar06

FASTRAX
See Notes [3] [7]

iTrax02

V 1.11

AMSAT-France
(F6FAO)

15May04

18May04

GARMIN

ETrex

2.11

KMC
(Pioneer Astro)

17Apr02

13Jun02

GARMIN

GEKO 201

V 2.0

TVNSP
(KD7OST)

TV03G 12Jul03

13Jul03

GARMIN

GPS-16-HVS

2.3.0 & 2.9.0

TVNSP

(N7MTZ & W7MJR)

04Jul04

05Jul04

GARMIN [Note 9]

GPS-18-LVC

2.30 & 2.40

TVNSP
(KC7DBA)

06Nov04

14Nov04

GARMIN [Note 9]

GPS-18X

GPS-18Xvc

3.00

SARA (KÃ˜BR)

NTI (N5NTI)

04Apr09

22May09

21Apr09

07Jun09

GARMIN

GPS-25 LP-LVS

GPS 25-LVS V2.5

F1SRX

12Jun2003

30Jan04

GARMIN

RINO

TBD

HABITAT SKYLAB

(KAÃ˜JLF)

01Aug04

03Aug04

GARMIN

GPS-35HVS

GPS 25-HVS V2.5

WÃ˜ZC

22Apr01

05May01

GARMIN

GPS-15H

2.70

KB8PVR

09Apr05

19Apr05

INVENTEK [Note 11]

ISMF2-C5.1-V004

C5.1-V004

WB8ELK

17Jan09

20Jan09

MOTOROLA

GT+ ONCORE [5]

NA

KI5CZ

1998

07Dec04

MOTOROLA

M12
P183T12N12

61-G10002A
Ver.1 Rev. 3

ANSR
(KD7LMO)

12Jan03

MOTOROLA

M12+
P283T12N15

61-G10002A
Ver.1 Rev. 8

ANSR
(KD7LMO)

07Dec02

12Dec02

NAVMAN

JUPITER 32

(SiRF III chipset)

GSW3.2.4-SDKNM_3.1.00.12-SDK001P1.00a
Jupiter32 v2.1 build 1 (S3)

ANSR

(KD7LMO)

15Dec07

31Dec07

RAND McNALLY

Streetfinder GPS for the Palm III

(ROCKWELL ZODIAC)

ZODIAC V1.83

ORB

(KC5TRB)

ORB-5 14Sep03

18Sep03

ROCKWELL
(CONEXANT)

JUPITER
TU30-D140-221/231
[Note 6]

JUP V1.80
CRC:CFB5

EOSS
(W5VSI)

EOSS-39 12Mar00 thru -49 21Apr01

08May01

TRIMBLE

COPERNICUS
(AIR mode)

2.01.1

Meteotek08

28Feb09

21Apr09

TRIMBLE

LASSEN LP GPS P/N 39263-00

7.82

BEAR
(VE6SBS)

BEAR-1 27May00
BEAR-2 05Aug00

23Jun01

RECEIVERS THAT FAIL THE 60KFT TEST

MANUFACTURER

MODEL

SOFTWARE

TESTED BY

TEST DATE

DATE POSTED

AXIOM

SandPiper

SiRF Star-1 chipset

[1]

unk

BYONICS

GPS2

SiRF-III

Notes [1 & 8]

LASA

24Nov07

27Nov07

DELUO

(rebranded EVERMORE)

Note [4]

Serial GPS

Unknown

EOSS-83

(KÃ˜ANI)

08Aug04

09Aug04

DELUO

Lite

Unknown

(Sony chipset)

K5IS

16Apr05

28Apr05

GARMIN

GPS-45

8120. Re: [GPSL] Re: Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 22:43:37 UTC
From: wb8elk@aol.com
Topic: 8112 Message: 8120

Hi Hank,

For the 300 baud ASCII RTTY, I'm using 200 Hz audio tone shifts (1050 Hz and 1250 Hz) and 8N1 ASCII encoding. I use that audio to FM modulate my transmitter on 2 meters.

By using ASCII encoding of the RTTY, I can send down the full alphabet (upper and lower case with special characters) instead of trying to deal with ancient 5-bit Baudot. To decode it, I use the free soundcard program FLdigi and set it's RTTY mode to CUSTOM and set it up for the above specs. It copies perfectly at 300 baud almost down to the noise level, once you start hearing static noise, it doesn't work well, but the DominoEX still copies well. The ASCII RTTY is not as good as DominoEX22 in weak signal situations. DominoEX can give you perfect copy down to -10 dB below the noise level (even FM modulated DominoEX if you open the squelch). But as long as you have a good received signal, 300 baud ASCII really works great.

I've set up the tones on the ASCII RTTY to be the same as the ozonesonde....it sounds exactly the same. I made the ozonesonde folks jump last weekend when I turned on my transmitter since they thought they had accidently turned on their ozonesonde too early.

The folks at UKHAS have modified FLdigi to work with balloon telemetry that allows it to send the telemetry directly to their web server and display on a Google Map, provided you send your telemetry in the format that they need....their modified version is also a free download....search for "dl-FLdigi" to download the ARHAB version.

Currently I have my transmitter send one frame of DominoEX22 at the top of each minute, followed by two frames of 300 baud ASCII RTTY and then every 5 minutes, CW and Hellscreiber.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Tue, Aug 17, 2010 11:44 am
Subject: [GPSL] Re: Successful Zigbee telemetry from balloon to ground last weekend

> I hitched a ride on the weekly Ozonesonde flight last Saturday to
> test out the final design of my Multi-Mode Transmitter and also
> attached a 100 milliwatt 915 MHz Zigbee XSC PRO module with a stock
> SMA rubber duck antenna. My MMT unit sent out the same telemetry
> string at 4800 baud to the Zigbee module (RF link was at 9600 baud)
> as was being sent down on DominoEx and 300 baud ASCII on 144.34 MHz.

Bill,

It's always great to hear what you're doing and how it's going (signal performance-wise).

I'm one of the few people who've used ASCII other than yourself. I used much slower than 300 baud for better s/n. We use OOK for ASCII -- what modulation mode did you use?

What was the performance of the other modes, and what powers/ antennas were used?

Hank

8121. Re: [GPSL] Re: Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-17 22:45:57 UTC
From: wb8elk@aol.com
Topic: 8112 Message: 8121

Hank...just saw your other two questions....my output power last weekend on the DominoEX and 300 baud ASCII RTTY transmitter was 30 milliwatts and the antenna was a 1/4 wave whip....I bypassed the final amp and just ran it directly from my frequency synthesizer chip with some matching components....it pegged my S-meter using a 3 element Arrow beam on the ground during most of the flight....it was S-9 in the car as well.

- Bill WB8ELK

-----Original Message-----
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Tue, Aug 17, 2010 11:44 am
Subject: [GPSL] Re: Successful Zigbee telemetry from balloon to ground last weekend

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I'm one of the few people who've used ASCII other than yourself.
I used much slower than 300 baud for better s/n. We use OOK
for ASCII -- what modulation mode did you use?

What was the performance of the other modes, and what powers/
antennas were used?

Hank

8122. Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 09:35:55 UTC
From: Keith Kaiser
Topic: 8122 Message: 8122

Welcome to the world of Amateur Radio High Altitude Ballooning (ARHAB) Konstantinos. We would be honored to have you as members of our world wide group of enthusiasts and I have added you to our web site at http://arhab.org.

The best way to reach the most ARHAB members with your questions would be to join the two primary HAB Yahoo groups at;

http://groups.yahoo.com/group/gpsl/
http://groups.yahoo.com/group/balloon_sked/

On these mailing lists you will find the worlds leading HAB individuals and groups. They can answer any and all of your questions about any aspect of the hobby. Please join.

Many of our member groups have web sites of their own with project details going back 25 years, be sure to visit the members page at http://www.arhab.org/members/members.html and explore.

73's
Keith
http://arhab.org
http://superlaunch.org

On Aug 18, 2010, at 3:02 AM, KOS wrote:

> Dear Keith,
> I am contacting you on behalf of the Greek Microwave Group (www.microwave.gr). Our group is an open and free group of enthusiasts about microwave telecommunications and we currently have more than 1000 registered members around the world, sharing this experience. Our great interest is space telecommunications, so eventually we have decided to test some of its aspects using a high altitude baloon, in a project we namer Gaia Project (www.microwave.gr/content/view/96/121).
>
> We yould like to add a link of your website to ours and if wou wish, we would greatly like to do so for us in your website.
>
> Also, your experience will be valuable to the Gaia Project, so we yould like to kindly ask you to participate the project. Participation, will not include spending money for the project from your point (this will be covered by the group) but just sharing information with the rest of the participants, through a series of emails. If you agree, we would like to add you as the 6th member of the project.
>
> This is the first time we have done something like this and we are very exited. Personally I like more custom made aparatus to be sent upthere, instead of buying commercial aparatus like GPS stuff, as I see the project like designing a system for a space mission, rather than a baloon mission (they could be considered simmilar in many things related to design process).
>

> I am waiting forward for your feedback,
> Best regards
>
> --
> Konstantinos Giannopoulos (SW3ORA)
> Computer and Telecommunications Engineer
> Director of the Greek Microwave Group (www.microwave.gr)

8123. Re: Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 12:54:56 UTC
From: n1ltv
Topic: 8112 Message: 8123

> my output power last weekend on the DominoEX and 300 baud ASCII RTTY > transmitter was 30 milliwatts and the antenna was a 1/4 wave whip.

Thanks, Bill, for mentioning the antenna and especially power used.

> it pegged my S-meter using a 3 element Arrow beam on the ground
> during most of the flight....it was S-9 in the car as well.

That's a nice demonstration of what happens with a true line of sight path, and the performance can be extrapolated to orbit distances.

Hank

8124. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 16:28:04 UTC
From: Joe
Topic: 8122 Message: 8124
Attachments: 1 described; binary payloads are missing from this source WARC

Did we not want to yes use the sked reflector for announcing of
skeds, but leave gpsl for just gpsl info and move general traffic to
the ballooning refelector?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/18/2010 4:35 AM, Keith Kaiser wrote:
>
>
> Welcome to the world of Amateur Radio High Altitude Ballooning
> (ARHAB) Konstantinos. We would be honored to have you as members of
> our world wide group of enthusiasts and I have added you to our web
> site at http://arhab.org.
>
> The best way to reach the most ARHAB members with your questions would
> be to join the two primary HAB Yahoo groups at;
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> http://groups.yahoo.com/group/gpsl/
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> On these mailing lists you will find the worlds leading HAB
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>
> Many of our member groups have web sites of their own with project
> details going back 25 years, be sure to visit the members page at
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>
> 73's
> Keith
> http://arhab.org
> http://superlaunch.org
>
> On Aug 18, 2010, at 3:02 AM, KOS wrote:
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>> we currently have more than 1000 registered members around the world,

>> sharing this experience. Our great interest is space
>> telecommunications, so eventually we have decided to test some of its
>> aspects using a high altitude baloon, in a project we namer Gaia
>> Project (www.microwave.gr/content/view! ! /96/121
>> <http://www.microwave.gr/content/view/96/121>).
>>
>> We yould like to add a link of your website to ours and if wou wish,
>> we would greatly like to do so for us in your website.
>>
>> Also, your experience will be valuable to the Gaia Project, so we
>> yould like to kindly ask you to participate the project.
>> Participation, will not include spending money for the project from
>> your point (this will be covered by the group) but just sharing
>> information with the rest of the participants, through a series of
>> emails. If you agree, we would like to add you as the 6th member of
>> the project.
>>
>> This is the first time we have done something like this and we are
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>> <http://www.microwave.gr/>)
>
>
>
>

8125. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 20:15:28 UTC
From: wb8elk@aol.com
Topic: 8122 Message: 8125
Attachments: 1 described; binary payloads are missing from this source WARC

Joe...the Ballooning reflector is the Arizona group's reflector, although there is a lot of general discussion there....the way it seems to have been working for the past few years and I think it's a good one is that Balloon_Sked for schedules....GPSL is for GPSL conference AND technical discussion.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Keith Kaiser <wa0tjt@...>; KOS <skylimit000@...>; Balloon_Sked Sked <Balloon_Sked@yahoogroups.com>
Sent: Wed, Aug 18, 2010 11:28 am
Subject: Re: [GPSL] Re: High Altitude Balooning and the GMG

Did we not want to yes use the sked reflector for announcing of skeds, but leave gpsl for just gpsl info and move general traffic to the ballooning refelector?

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On these mailing lists you will find the worlds leading HAB individuals and groups. They can answer any and all of your questions about any aspect of the hobby. Please join.

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http://arhab.org
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We would like to add a link of your website to ours and if wou wish, we would greatly like to do so for us in your website.

Also, your experience will be valuable to the Gaia Project, so we would like to kindly ask you to participate the project. Participation, will not include spending money for the project from your point (this will be covered by the group) but just sharing information with the rest of the participants, through a series of emails. If you agree, we would like to add you as the 6th member of the project.

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I am waiting forward for your feedback,
Best regards

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Konstantinos Giannopoulos (SW3ORA)
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8126. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 20:32:51 UTC
From: HarryM
Topic: 8122 Message: 8126

Balloon_Sked has been a YGroup for announcing flights for years and has remained pretty true to that topic. After Paul moved to Idaho, the KNSP YGroup became the general ARHAB discussion area. The GPSL YGroup has become like the KNSP YGroup and I for one liked it when it was limited to GPSL topics. That was it's purpose from inception and I would like to see it return to that. The description of the GPSL Group says... "This list is for the discussion of the annual Great Plains Super Launch, a gathering of amateur radio balloon enthusiasts. "

73 Harry KC5TRB

8127. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 21:12:26 UTC
From: Joe
Topic: 8122 Message: 8127
Attachments: 2 described; binary payloads are missing from this source WARC

I remember about a moth ago everyone decided to not use the GPSL
reflector for casual non GPSL discussions.

But could be wrong.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/18/2010 3:15 PM, wb8elk@... wrote:
> Joe...the Ballooning reflector is the Arizona group's reflector,
> although there is a lot of general discussion there....the way it
> seems to have been working for the past few years and I think it's a
> good one is that Balloon_Sked for schedules....GPSL is for GPSL
> conference AND technical discussion.
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Cc: Keith Kaiser <wa0tjt@...>; KOS <skylimit000@...>;
> Balloon_Sked Sked <Balloon_Sked@yahoogroups.com>
> Sent: Wed, Aug 18, 2010 11:28 am
> Subject: Re: [GPSL] Re: High Altitude Balooning and the GMG
>
> Did we not want to yes use the sked reflector for announcing of
> skeds, but leave gpsl for just gpsl info and move general traffic to
> the ballooning refelector?
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> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>> The best way to reach the most ARHAB members with your questions
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>> On these mailing lists you will find the worlds leading HAB
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>>
>> Many of our member groups have web sites of their own with project
>> details going back 25 years, be sure to visit the members page at
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>>
>> 73's
>> Keith
>> http://arhab.org <http://arhab.org/>
>> http://superlaunch.org <http://superlaunch.org/>
>>
>> On Aug 18, 2010, at 3:02 AM, KOS wrote:
>>
>>> Dear Keith,
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>>> www.microwave.gr <http://www.microwave.gr/>). Our group is an open
>>> and free group of enthusiasts about microwave telecommunications and
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>>> We yould like to add a link of your website to ours and if wou wish,
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8128. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 21:35:28 UTC
From: Keith Kaiser
Topic: 8122 Message: 8128

The thing is, the obvious eMail address for us to use on Yahoo Groups would be ARHAB@... but thats the 'Ballooning' group over at ANSR. So unless we use that we'd have to come up with something new.

Lets just start asking people to use that, if they have no issue with it.

On Aug 18, 2010, at 4:12 PM, Joe wrote:

> I remember about a moth ago everyone decided to not use the GPSL reflector for casual non GPSL discussions.
>
> But could be wrong.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
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>> - Bill WB8ELK
>>
>>
>>
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>> From: Joe <nss@mwt.net>
>> To: GPSL@yahoogroups.com
>> Cc: Keith Kaiser <wa0tjt@...>; KOS <skylimit000@...>; Balloon_Sked Sked <Balloon_Sked@...m>
>> Sent: Wed, Aug 18, 2010 11:28 am
>> Subject: Re: [GPSL] Re: High Altitude Balooning and the GMG
>>
>> Did we not want to yes use the sked reflector for announcing of skeds, but leave gpsl for just gpsl info and move general traffic to the ballooning refelector?
>>
>> Joe WB9SBD
>> <Mail Attachment.jpeg>
>> The Original Rolling Ball Clock
>> Idle Tyme

>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 8/18/2010 4:35 AM, Keith Kaiser wrote:
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>>>> Also, your experience will be valuable to the Gaia Project, so we yould like to kindly ask you to participate the project. Participation, will not include spending money for the project from your point (this will be covered by the group) but just sharing information with the rest of the participants, through a series of emails. If you agree, we would like to add you as the 6th member of the project.
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>>>> This is the first time we have done something like this and we are very exited. Personally I like more custom made aparatus to be sent upthere, instead of buying commercial aparatus like GPS stuff, as I see the project like designing a system for a space mission, rather than a baloon mission (they could be considered simmilar in many

things related to design process).
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>>>> I am waiting forward for your feedback,
>>>> Best regards
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>>>> --
>>>> Konstantinos Giannopoulos (SW3ORA)
>>>> Computer and Telecommunications Engineer
>>>> Director of the Greek Microwave Group (www.microwave.gr)
>>>

8129. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 21:40:49 UTC
From: Mark Conner
Topic: 8122 Message: 8129

I have a draft proposal to the group that I'm still working on - basically, we rename the "GPSL" list to "ARHAB" (using arhab@yahoogroups.com which is not taken) and start a new GPSL-only list. The ARHAB group will "inherit" all the current "GPSL" subscriptions, archives, files, etc. I'll send it once I've worked out all the nuts and bolts.

73 de Mark N9XTN

On Wed, Aug 18, 2010 at 16:35, Keith Kaiser <wa0tjt@...> wrote:

>
>
> The thing is, the obvious eMail address for us to use on Yahoo Groups would
> be ARHAB@... but thats the 'Ballooning' group over at ANSR. So
> unless we use that we'd have to come up with something new.
>
> Lets just start asking people to use that, if they have no issue with it.
>
> On Aug 18, 2010, at 4:12 PM, Joe wrote:
>
> I remember about a moth ago everyone decided to not use the GPSL reflector
> for casual non GPSL discussions.
>
> But could be wrong.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>
> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com
>
> On 8/18/2010 3:15 PM, wb8elk@... wrote:
>
> Joe...the Ballooning reflector is the Arizona group's reflector, although
> there is a lot of general discussion there....the way it seems to have been
> working for the past few years and I think it's a good one is that
> Balloon_Sked for schedules....GPSL is for GPSL conference AND technical
> discussion.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----

> From: Joe <nss@...> <nss@...>
> To: GPSL@yahoogroups.com
> Cc: Keith Kaiser <wa0tjt@...> <wa0tjt@...>; KOS
> <skylimit000@...> <skylimit000@...>; Balloon_Sked Sked
> <Balloon_Sked@yahoogroups.com> <Balloon_Sked@yahoogroups.com>
> Sent: Wed, Aug 18, 2010 11:28 am
> Subject: Re: [GPSL] Re: High Altitude Balooning and the GMG
>
> Did we not want to yes use the sked reflector for announcing of skeds, but
> leave gpsl for just gpsl info and move general traffic to the ballooning
> refelector?
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> On 8/18/2010 4:35 AM, Keith Kaiser wrote:
>
> Welcome to the world of Amateur Radio High Altitude Ballooning
> (ARHAB) Konstantinos. We would be honored to have you as members of our
> world wide group of enthusiasts and I have added you to our web site at
> http://arhab.org.
>
> The best way to reach the most ARHAB members with your questions would be
> to join the two primary HAB Yahoo groups at;
>
> http://groups.yahoo.com/group/gpsl/
> http://groups.yahoo.com/group/balloon_sked/
>
> On these mailing lists you will find the worlds leading HAB individuals
> and groups. They can answer any and all of your questions about any aspect
> of the hobby. Please join.
>
> Many of our member groups have web sites of their own with project
> details going back 25 years, be sure to visit the members page at
> http://www.arhab.org/members/members.html and explore.
>
> 73's
> Keith
> http://arhab.org
> http://superlaunch.org
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> On Aug 18, 2010, at 3:02 AM, KOS wrote:
>
> Dear Keith,
> I am contacting you on behalf of the Greek Microwave Group (

> www.microwave.gr). Our group is an open and free group of enthusiasts
> about microwave telecommunications and we currently have more than 1000
> registered members around the world, sharing this experience. Our great
> interest is space telecommunications, so eventually we have decided to test
> some of its aspects using a high altitude baloon, in a project we namer Gaia
> Project (www.microwave.gr/content/view! !
/96/121<http://www.microwave.gr/content/view/96/121>).
>
> We yould like to add a link of your website to ours and if wou wish, we
> would greatly like to do so for us in your website.
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> Also, your experience will be valuable to the Gaia Project, so we yould
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8130. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 21:44:53 UTC
From: Keith Kaiser
Topic: 8122 Message: 8130

Sounds promising.

On Aug 18, 2010, at 4:40 PM, Mark Conner wrote:

> I have a draft proposal to the group that I'm still working on - basically, we rename the "GPSL" list to "ARHAB" (using arhab@yahoogroups.com which is not taken) and start a new GPSL-only list. The ARHAB group will "inherit" all the current "GPSL" subscriptions, archives, files, etc. I'll send it once I've worked out all the nuts and bolts.
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>>> - Bill WB8ELK
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>>>
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have added you to our web site at http://arhab.org.
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>>>> The best way to reach the most ARHAB members with your questions would be to join the
two primary HAB Yahoo groups at;
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>>>> http://groups.yahoo.com/group/gpsl/
>>>> http://groups.yahoo.com/group/balloon_sked/
>>>>
>>>> On these mailing lists you will find the worlds leading HAB individuals and groups.
They can answer any and all of your questions about any aspect of the hobby. Please join.
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>>>> Many of our member groups have web sites of their own with project details going back
25 years, be sure to visit the members page at http://www.arhab.org/members/members.html
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>>>>> We yould like to add a link of your website to ours and if wou wish, we would greatly like to do so for us in your website.
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>>>>> Also, your experience will be valuable to the Gaia Project, so we yould like to kindly ask you to participate the project. Participation, will not include spending money for the project from your point (this will be covered by the group) but just sharing information with the rest of the participants, through a series of emails. If you agree, we would like to add you as the 6th member of the project.
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>>>>> Konstantinos Giannopoulos (SW3ORA)
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>>>>> Director of the Greek Microwave Group (www.microwave.gr)
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>
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8131. Re: [GPSL] Re: Successful Zigbee telemetry from balloon to ground last weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 21:56:22 UTC
From: Mike Manes
Topic: 8112 Message: 8131

It is written: "Line of sight is a magic thing."
73 de Mike W5VSI

On 8/18/2010 06:54, n1ltv wrote:
>> my output power last weekend on the DominoEX and 300 baud ASCII RTTY> transmitter was 30 milliwatts and the antenna was a 1/4 wave whip.
>
> Thanks, Bill, for mentioning the antenna and especially power used.
>
>> it pegged my S-meter using a 3 element Arrow beam on the ground
>> during most of the flight....it was S-9 in the car as well.
>
> That's a nice demonstration of what happens with a true line of
> sight path, and the performance can be extrapolated to orbit
> distances.
>
> Hank
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8132. Re: Time Lapse Video of Space Shuttle - assembly to launch (3:52 min)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 22:27:31 UTC
From: Mike Manes
Topic: 8132 Message: 8132

Kewl!

On 8/18/2010 10:06, Bill Bradford wrote:
> http://www.youtube.com/watch_popup?v=KZrFC988Thc

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8133. Re: [GPSL] Re: High Altitude Balooning and the GMG

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-18 22:48:02 UTC
From: compassing
Topic: 8122 Message: 8133

I am relatively new to ARHAB, (joined ANSR '03; subscribed to "Ballooning" Yahoo!Group Jan04) and can remember "Ballooning" being used as a de facto general ARHAB discussion remailer. In the past, ANSR members have always been favorable to hosting any ARHAB traffic on the remailer/group. We are well aware that the 441 "Ballooning Group" members are not there to follow only ANSR endeavors.

If you decide against starting up yet another ARHAB remailer/group, and prefer to continue using "Ballooning" for general ARHAB discussion, then I'll revise the description page to reflect that it is open in that regard.

As to the ARHAB@... address, ANSR does not own arhab@yahoo.com or arhab@yahoogroups.com. Ours group address is

ballooning@yahoogroups.com

or you may message all five owners at:

Ballooning-owner@yahoogroups.com

Best regards,
James AC7ZT

On Wed, Aug 18, 2010 at 2:35 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> The thing is, the obvious eMail address for us to use on Yahoo Groups would
> be ARHAB@... but thats the 'Ballooning' group over at ANSR. So
> unless we use that we'd have to come up with something new.
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> Lets just start asking people to use that, if they have no issue with it.
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> Joe...the Ballooning reflector is the Arizona group's reflector, although
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> Balloon_Sked for schedules....GPSL is for GPSL conference AND technical
> discussion.
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> - Bill WB8ELK
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> -----Original Message-----
> From: Joe <nss@...> <nss@...>
> To: GPSL@yahoogroups.com
> Cc: Keith Kaiser <wa0tjt@...> <wa0tjt@...>; KOS
> <skylimit000@...> <skylimit000@...>; Balloon_Sked Sked
> <Balloon_Sked@yahoogroups.com> <Balloon_Sked@yahoogroups.com>
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> world wide group of enthusiasts and I have added you to our web site at
> http://arhab.org.
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> The best way to reach the most ARHAB members with your questions would be
> to join the two primary HAB Yahoo groups at;
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> http://groups.yahoo.com/group/gpsl/
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> On these mailing lists you will find the worlds leading HAB individuals
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> Many of our member groups have web sites of their own with project
> details going back 25 years, be sure to visit the members page at
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> Konstantinos Giannopoulos (SW3ORA)
> Computer and Telecommunications Engineer
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>
>

>

8134. Balloon_sked needs to be brought back to its proper and rightful purpose

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 15:20:30 UTC
From: n1ltv
Topic: 8122 Message: 8134

> The best way to reach the most ARHAB members with your questions
> would be to join the two primary HAB Yahoo groups at;
>
> http://groups.yahoo.com/group/gpsl/
> http://groups.yahoo.com/group/balloon_sked/

I just noticed that balloon_sked is getting really
seriously cluttered with questions other than directly
related to scheduling.

Balloon_sked is the balloon group that is perhaps the
purest (maybe **was** purest is the correct wording) in
nature, and the one easiest to keep to its core mission
by moderator action that would encourage, or more strongly,
enforce adherence to its core mission.

As an assistant moderator to balloon_sked (with a low level
of involvement, up to now, other than with the routine
membership acceptance process), I would like to confer
with b_s moderator Rick about cutting down on off topic
discussions on b_s.

I certainly would not want b-s announced to be an appropriate
forum for questions other than sked related. Okay to find out
who's doing what, okay to pose scheduling questions, not
okay to discuss things like for instance the use of hydrogen
vs. helium.

I guess all of us have to start honoring the purpose of
balloon_sked, and there's no better time than now.

Hank

8135. Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 15:45:13 UTC
From: Mark Conner
Topic: 8135 Message: 8135

Since we are now safely past GPSL 2010 and the recent discussion of the purposes of various ARHAB lists, I think now might be the time to throw this idea out to the list at large.....

The Yahoo Groups "GPSL" list started in 2002 as a list for just the discussion of the annual Great Plains Super Launch - the scheduling, logistics, frequency coordination, promotion, etc. For better or worse, it has also become an all-purpose amateur radio high altitude ballooning discussion list, with GPSL-related discussions ramping up in the summer and miscellaneous discussions continuing all year. This "all-purpose" mission has started to bleed over into other lists, including "Balloon_Sked" which was designed as an announcement-only list but has also started to drift.

I believe there is benefit in having a separate ARHAB general discussion list and one specific to the GPSL. There have got to be a large number of ARHAB enthusiasts out there who do not intend to participate in GPSL (even vicariously) and perhaps a small number who would like to participate in a particular year's GPSL discussion without having to sort through a large number of non-GPSL-related posts.

Having said that, the existing membership and archive on the current GPSL list would be difficult or impossible to migrate cleanly to a new ARHAB list. However, we can rename the "GPSL" list to "ARHAB" without any loss of the message archive, files, or subscription list. About the only change apparent to subscribers would be that new posts would arrive with [ARHAB] in the subject line instead of [GPSL]. The main page of the list would be modified to reflect the new name and purpose of the "ARHAB" list, and would be aligned branding-wise with the upgraded arhab.org website. This would hopefully make the ARHAB list more findable by newcomers and make it pop up higher when someone uses a search engine (I'm not sure anyone would find the GPSL Yahoo list by a web search, let alone understand its purpose had morphed over the last 2-3 years).

Here's the proposal:

1) Rename the "GPSL" Yahoo list to "ARHAB", keeping intact all the subscriptions, files, and message archives.
2) Redo the newly-renamed ARHAB Yahoo list's main page to reflect the new purpose, link to the arhab.org website. The arhab.org website could also promote this list as the "home" list for ARHAB discussions.
3) Create a new list for Great Plains Super Launch discussions, calling it "GPSL" if possible (not sure if the 'old' name gets released for reuse), or "SuperLaunch" if not.

This will require anyone interested in Super Launch discussions to subscribe to a new list. Posting of general ARHAB discusssions to the GPSL list will be discouraged, but periodic (not routine) GPSL updates will be OK on the ARHAB list. It is expected that the GPSL list will be quiet for much of the year - that's OK.

Balloon_Sked should also stay on its original purpose of announcing upcoming flights, including changes and cancellations. Routine discussions should be reserved for the "ARHAB" list or other group-specific lists.

I'd like to do this in the next week or so. Please post your thoughts on this list or e-mail me privately if you like.

73 de Mark N9XTN
"GPSL" list owner

8136. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 16:17:41 UTC
From: Joe
Topic: 8135 Message: 8136
Attachments: 1 described; binary payloads are missing from this source WARC

Near Space Sciences Likes this.

But with one change.

Change the name of GPSL to ARHAB as discussed below. and keep everyone as a member a member.

Create the New GPSL list, but for now just take the complete e mail list from the existing GPSL list and add them there.

I bet there are far more people that want to be on BOTH lists than just one or the other.

In addition if someone does NOT want to be on one list or the other they can un subscribe from the one they don't like.

I thisnk this would be far simpler than having the several hundred re subscribe to a new one true?

Just sub everyone to both lists, and let them opt out of the ones they don't want to if any.

Joe WB9SBD
Near Space Sciences KB9KHO

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/19/2010 10:45 AM, Mark Conner wrote:
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> GPSL list will be discouraged, but periodic (not routine) GPSL updates
> will be OK on the ARHAB list. It is expected that the GPSL list will
> be quiet for much of the year - that's OK.
>
> Balloon_Sked should also stay on its original purpose of announcing
> upcoming flights, including changes and cancellations. Routine
> discussions should be reserved for the "ARHAB" list or other
> group-specific lists.
>
> I'd like to do this in the next week or so. Please post your thoughts
> on this list or e-mail me privately if you like.
>
> 73 de Mark N9XTN

> "GPSL" list owner
>
>
>
>
>

8137. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 16:21:33 UTC
From: Jerry Gable
Topic: 8135 Message: 8137

Cleaning up the lists is always a good thing in my opinion. In email I'm not sure it makes much difference but it does make it a lot easier if you want to look something up on the list archive site.

I would also suggest at least for the next few months you add a footer that lists all the lists and describes each list's purpose. A lot of incorrect posts come from not knowing where to actually post.

And finally, I suggest calling yahoo before you make the changes. My few experiences with their help desk have been reasonable and they may be able to do some of the changes in the background. My biggest concern would be the recycling of the GPSL name. They tend to lock old names for a while before allowing them to be reused.

Jerry

From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Thu, August 19, 2010 8:45:13 AM
Subject: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Since we are now safely past GPSL 2010 and the recent discussion of the purposes of various ARHAB lists, I think now might be the time to throw this idea out to the list at large.....

The Yahoo Groups "GPSL" list started in 2002 as a list for just the discussion of the annual Great Plains Super Launch - the scheduling, logistics, frequency coordination, promotion, etc. For better or worse, it has also become an all-purpose amateur radio high altitude ballooning discussion list, with GPSL-related discussions ramping up in the summer and miscellaneous discussions continuing all year. This "all-purpose" mission has started to bleed over into other lists, including "Balloon_Sked" which was designed as an announcement-only list but has also started to drift.

I believe there is benefit in having a separate ARHAB general discussion list and one specific to the GPSL. There have got to be a large number of ARHAB enthusiasts out there who do not intend to participate in GPSL (even vicariously) and perhaps a small number who would like to participate in a particular year's GPSL discussion without having to sort through a large number of non-GPSL-related posts.

Having said that, the existing membership and archive on the current GPSL list would be difficult or impossible to migrate cleanly to a new ARHAB list.

However, we can rename the "GPSL" list to "ARHAB" without any loss of the message archive, files, or subscription list. About the only change apparent to subscribers would be that new posts would arrive with [ARHAB] in the subject line instead of [GPSL]. The main page of the list would be modified to reflect the new name and purpose of the "ARHAB" list, and would be aligned branding-wise with the upgraded arhab.org website. This would hopefully make the ARHAB list more findable by newcomers and make it pop up higher when someone uses a search engine (I'm not sure anyone would find the GPSL Yahoo list by a web search, let alone understand its purpose had morphed over the last 2-3 years).

Here's the proposal:

1) Rename the "GPSL" Yahoo list to "ARHAB", keeping intact all the subscriptions, files, and message archives.
2) Redo the newly-renamed ARHAB Yahoo list's main page to reflect the new purpose, link to the arhab.org website. The arhab.org website could also promote this list as the "home" list for ARHAB discussions.
3) Create a new list for Great Plains Super Launch discussions, calling it "GPSL" if possible (not sure if the 'old' name gets released for reuse), or "SuperLaunch" if not.

This will require anyone interested in Super Launch discussions to subscribe to a new list. Posting of general ARHAB discusssions to the GPSL list will be discouraged, but periodic (not routine) GPSL updates will be OK on the ARHAB list. It is expected that the GPSL list will be quiet for much of the year - that's OK.

Balloon_Sked should also stay on its original purpose of announcing upcoming flights, including changes and cancellations. Routine discussions should be reserved for the "ARHAB" list or other group-specific lists.

I'd like to do this in the next week or so. Please post your thoughts on this list or e-mail me privately if you like.

73 de Mark N9XTN
"GPSL" list owner

8138. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 16:33:16 UTC
From: Mark Conner
Topic: 8135 Message: 8138

I agree this is the way to go, if it is possible. However, Yahoo by default makes it difficult or impossible to add people to a group without their consent (or spammers could use Yahoo as a delivery means).

Jerry had a good comment about working with Yahoo customer service on this to make it happen more smoothly which I'll investigate.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 11:17, Joe <nss@...> wrote:

>
>
> Create the New GPSL list, but for now just take the complete e mail list
> from the existing GPSL list and add them there.
>
> I bet there are far more people that want to be on BOTH lists than just
> one or the other.
>
> In addition if someone does NOT want to be on one list or the other they
> can un subscribe from the one they don't like.
>
> I thisnk this would be far simpler than having the several hundred re
> subscribe to a new one true?
>
> Just sub everyone to both lists, and let them opt out of the ones they
> don't want to if any.
>
>
>
>

8139. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 17:30:16 UTC
From: Keith Kaiser
Topic: 8135 Message: 8139

NSV and I are in favor of this, if there is anything I can do to help just let me know.

On Aug 19, 2010, at 11:33 AM, Mark Conner wrote:

> I agree this is the way to go, if it is possible. However, Yahoo by default makes it difficult or impossible to add people to a group without their consent (or spammers could use Yahoo as a delivery means).
>
> Jerry had a good comment about working with Yahoo customer service on this to make it happen more smoothly which I'll investigate.
>
> 73 de Mark N9XTN
>
>
> On Thu, Aug 19, 2010 at 11:17, Joe <nss@...> wrote:
>
>
> Create the New GPSL list, but for now just take the complete e mail list from the existing GPSL list and add them there.
>
> I bet there are far more people that want to be on BOTH lists than just one or the other.
>
> In addition if someone does NOT want to be on one list or the other they can un subscribe from the one they don't like.
>
> I thisnk this would be far simpler than having the several hundred re subscribe to a new one true?
>
> Just sub everyone to both lists, and let them opt out of the ones they don't want to if any.
>
>>
>
>
>

8140. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 17:53:52 UTC
From: dvpatterson@comcast.net
Topic: 8135 Message: 8140

Keith:

I'd suggest a promenent link on the ARHAB.org site with something like "Beginner's Guide" (could be generic with info on everything from FAR101 to communications systems, etc) or "Community Guidelines" (more specific, with instructions on how to interact with each list). The folks over at www.diydrones.com have done a fairly good job of making their conops available to beginners from within the Ning architechture, I think, with links like that right at the top of the page.

Just a thought... I might be willing to help with content (not layout or design, sorry), but we'll have to see how my schedule works out.

-David

----- Original Message -----
From: "Keith Kaiser" <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Thursday, August 19, 2010 11:30:16 AM
Subject: Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

NSV and I are in favor of this, if there is anything I can do to help just let me know.

On Aug 19, 2010, at 11:33 AM, Mark Conner wrote:

I agree this is the way to go, if it is possible. However, Yahoo by default makes it difficult or impossible to add people to a group without their consent (or spammers could use Yahoo as a delivery means).

Jerry had a good comment about working with Yahoo customer service on this to make it happen more smoothly which I'll investigate.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 11:17, Joe < nss@... > wrote:

Create the New GPSL list, but for now just take the complete e mail list from the existing GPSL list and add them there.

I bet there are far more people that want to be on BOTH lists than just one or the other.

In addition if someone does NOT want to be on one list or the other they can un subscribe from the one they don't like.

I thisnk this would be far simpler than having the several hundred re subscribe to a new one true?

Just sub everyone to both lists, and let them opt out of the ones they don't want to if any.

8141. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 18:48:26 UTC
From: Mark Conner
Topic: 8135 Message: 8141

In addition to a link on the ARHAB front page to the ARHAB list, I'd also suggest an arhab.org page containing subscription information and mission statements of any ARHAB lists people want to promote. The various list owners should be responsible for providing Keith this info, rather than him having to seek it out and writing it up.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 12:53, <dvpatterson@...> wrote:

>
>
> Keith:
>
>
>
> I'd suggest a promenent link on the ARHAB.org site with something like
> "Beginner's Guide" (could be generic with info on everything from FAR101 to
> communications systems, etc) or "Community Guidelines" (more specific, with
> instructions on how to interact with each list). The folks over at
> www.diydrones.com have done a fairly good job of making their conops
> available to beginners from within the Ning architechture, I think, with
> links like that right at the top of the page.
>
>
>
> Just a thought... I might be willing to help with content (not layout or
> design, sorry), but we'll have to see how my schedule works out.
>
>
>
> -David
>
>

8142. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 19:39:06 UTC
From: wb8elk@aol.com
Topic: 8135 Message: 8142

Rather than changing GPSL to ARHAB....you might want to see if there is a way to just create ARHAB and copy the member list to that list.....just trying to avoid having to re-sign up to each list and losing folks that way....or it might be best to just create ARHAB and have everyone sign up to the new list (moderator invite?).

- Bill WB8ELK

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Thu, Aug 19, 2010 1:48 pm
Subject: Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

In addition to a link on the ARHAB front page to the ARHAB list, I'd also suggest an arhab.org page containing subscription information and mission statements of any ARHAB lists people want to promote. The various list owners should be responsible for providing Keith this info, rather than him having to seek it out and writing it up.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 12:53, <dvpatterson@comcast.net> wrote:

Keith:

I'd suggest a promenent link on the ARHAB.org site with something like "Beginner's Guide" (could be generic with info on everything from FAR101 to communications systems, etc) or "Community Guidelines" (more specific, with instructions on how to interact with each list). The folks over at www.diydrones.com have done a fairly good job of making their conops available to beginners from within the Ning architechture, I think, with links like that right at the top of the page.

Just a thought... I might be willing to help with content (not layout or design, sorry), but we'll have to see how my schedule works out.

-David

8143. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 19:50:54 UTC
From: Mark Conner
Topic: 8135 Message: 8143

Renaming the GPSL list to ARHAB will automatically make existing "GPSL" members "ARHAB" members. The only signup required would be to the new GPSL list.

Much of the current message archive has more relevance to "ARHAB" than "GPSL", especially the last couple of years. I think that history more properly belongs to the new ARHAB list.

Yahoo Groups help says I can directly subscribe members to a new list, but only "some" at a time. You have to wait 24 hours or so to subscribe "some" more. It's possible Yahoo's help desk can help me "clone" the list, which would make things easier.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 14:39, <wb8elk@...> wrote:

>
>
> Rather than changing GPSL to ARHAB....you might want to see if there is a
> way to just create ARHAB and copy the member list to that list.....just
> trying to avoid having to re-sign up to each list and losing folks that
> way....or it might be best to just create ARHAB and have everyone sign up to
> the new list (moderator invite?).
>
> - Bill WB8ELK
>
>
>

8144. Re: [Balloonatics] Ballooning on TV tonight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-19 22:18:56 UTC
From: Mike Manes
Topic: 8144 Message: 8144

Thanks, Joe,

I also gave up on trying to find that on the G4tv site.

And yeah, its production values target the gamers, but if that's what it takes to get kids today to get involved, then so be it. And what little science that showed up was accurate, despite the format of its presentation.

Gotta give 'em credit for a 100% recovery rate (assuming that was their only flight).

73 de Mike W5VSI

On 8/19/2010 15:01, Joe wrote:
> Here ya go gang,
>
> Thanks to whoever sent me the link to download the video,
>
> http://tinypic.com/r/wujt6p/4
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/19/2010 2:41 PM, wb8elk@... wrote:
>> It would be nice to see the show, but my cable didn't have G4 as an option. If anyone recorded it, it would be good to see.
>>
>> - Bill WB8ELK
>>
>>
>>
>>
>>
>>
>> -----Original Message-----
>> From: Mark Conner<mconner1@...>
>> To: Balloonatics@yahoogroups.com
>> Sent: Thu, Aug 19, 2010 10:23 am
>> Subject: Re: [Balloonatics] Ballooning on TV tonight
>>
>>

>>
>>
>> Much of G4's programming can be summed up with this statement. Even so,
>> sometimes you take the PR where you can get it.
>>
>> 73 de Mark N9XTN
>>
>> On Thu, Aug 19, 2010 at 10:19, Ralph<ralphlists@...> wrote:
>>
>>> I was remarking to my Son that I thought the whole show (and the episode
>>> that followed it) was lame as well.
>>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
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>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
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>>
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>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8145. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-20 01:27:03 UTC
From: L. Paul Verhage
Topic: 8135 Message: 8145

I'm fine with the switch to ARHAB. Switching the name of the Yahoo list
sounds the easiest.

I'd also like to have ARHAB.org link to my BASIC Stamp near sapce book as a
reference. Would that be acceptable?

Paul

On Thu, Aug 19, 2010 at 2:50 PM, Mark Conner <mconner1@...> wrote:

>
>
> Renaming the GPSL list to ARHAB will automatically make existing "GPSL"
> members "ARHAB" members. The only signup required would be to the new GPSL
> list.
>
> Much of the current message archive has more relevance to "ARHAB" than
> "GPSL", especially the last couple of years. I think that history more
> properly belongs to the new ARHAB list.
>
> Yahoo Groups help says I can directly subscribe members to a new list, but
> only "some" at a time. You have to wait 24 hours or so to subscribe "some"
> more. It's possible Yahoo's help desk can help me "clone" the list, which
> would make things easier.
>
> 73 de Mark N9XTN
>
>
> On Thu, Aug 19, 2010 at 14:39, <wb8elk@...> wrote:
>
>>
>>
>> Rather than changing GPSL to ARHAB....you might want to see if there is a
>> way to just create ARHAB and copy the member list to that list.....just
>> trying to avoid having to re-sign up to each list and losing folks that
>> way....or it might be best to just create ARHAB and have everyone sign up to
>> the new list (moderator invite?).
>>
>> - Bill WB8ELK
>>
>>
>>
>
>
>

>
>

--
Onwards and Upwards,
Paul

8146. QST article on ARHAB mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-20 02:16:45 UTC
From: Mark Conner
Topic: 8146 Message: 8146

Nice writeup of a 2009 Project Blue Horizon mission in the latest QST.
Author was John N2XE. Guess they will take ARHAB articles now and again.
;-)

73 de Mark N9XTN

8147. Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-20 08:47:23 UTC
From: wb8elk@aol.com
Topic: 8135 Message: 8147

The main thing I worry about is the potential loss of GPSL group name if you rename it ... I'd check with Yahoo folks on how to also preserve the GPSL group name.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, Aug 19, 2010 8:27 pm
Subject: Re: [GPSL] Proposal: Rename/repurpose "GPSL" list to "ARHAB", create new GPSL list

I'm fine with the switch to ARHAB. Switching the name of the Yahoo list sounds the easiest.

I'd also like to have ARHAB.org link to my BASIC Stamp near sapce book as a reference. Would that be acceptable?

Paul

On Thu, Aug 19, 2010 at 2:50 PM, Mark Conner <mconner1@...> wrote:

Renaming the GPSL list to ARHAB will automatically make existing "GPSL" members "ARHAB" members. The only signup required would be to the new GPSL list.

Much of the current message archive has more relevance to "ARHAB" than "GPSL", especially the last couple of years. I think that history more properly belongs to the new ARHAB list.

Yahoo Groups help says I can directly subscribe members to a new list, but only "some" at a time. You have to wait 24 hours or so to subscribe "some" more. It's possible Yahoo's help desk can help me "clone" the list, which would make things easier.

73 de Mark N9XTN

On Thu, Aug 19, 2010 at 14:39, <wb8elk@...> wrote:

Rather than changing GPSL to ARHAB....you might want to see if there is a way to just create ARHAB and copy the member list to that list.....just trying to avoid having to re-sign up to each list and losing folks that way....or it might be best to just create ARHAB and have everyone sign up to the new list (moderator invite?).

- Bill WB8ELK

--
Onwards and Upwards,
Paul

8148. Re: [GPSL] QST article on ARHAB mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-20 16:45:53 UTC
From: Mike Manes
Topic: 8146 Message: 8148

Yeah. That was the Sept 2010 issue, page 57. From the footnote, John's done a couple of other (non-balloon) articles for QST before. Having a "portfolio" may help get a foot in the door.
73 de Mike W5VSI

On 8/19/2010 20:16, Mark Conner wrote:
>
>
> Nice writeup of a 2009 Project Blue Horizon mission in the latest QST. Author
> was John N2XE. Guess they will take ARHAB articles now and again. ;-)
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8149. WB8ELK Oz25 flight from last weekend recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 07:41:54 UTC
From: wb8elk@aol.com
Topic: 8149 Message: 8149

After a week of torrential rains, finally on Friday I had a good day to make the recovery attempt. Looked like it would be a "walk in park" since there was a well-maintained path/dirt road right up to the soy bean field where my experiment along with the Ozonesonde were resting.

After a 1500 foot hike I was thrilled to find a nice path around the edge of the soy bean field, so no need to hike 800 feet in waist high beans. Once I got to the nearest point, it would be a quick little jaunt of about 250 feet into the beans, grab the payload and head home....piece of cake.

It was that last 250 feet into the waist-high beans with an added nice touch of Morning Glory vines along with a heat index of 105 degrees that was the tough part....I also found out that a Garmin car GPS unit is not the best thing for tracking GPS coordinates on foot....somehow the waypoint on the Garmin got lost....I had remembered the Latitude, but couldn't remember the longitude (that bit of paper with the landing coordinates was back in my car a half mile away). So I walked along the latitude line to the west into the beans until I thought I had gone far enough....NOTHING....nothing but beans as far as the eye could see...no parachute flopping in the wind, no payloads covered with orange duct tape. It's not easy walking in soy beans that are drilled in solid....combined with the extreme heat it was miserable. I made a note of the longitude of my westernmost trek and since I didn't see anything figured that the farmer had found everything already and had already scooped it up.

I walked the half mile back to my car, drank a whole bottle of water and looked at my piece of paper with the landing coordinates.....to my chagrin, I had given up and turned around in the field 50 feet too soon!!!!!

Since I wouldn't have been able to sleep that night wondering if it really was still out there, I braved the heat and trekked the half mile back to the soy beans. This time, armed with both latitude and longitude, I hacked my way slowly to the exact spot....NOTHING but beans....I hiked another 50 feet west from that point and just when I was about to give up, I nearly tripped over a white string draped over the beans. I followed the string and there it was!!!! I had to be within 5 feet of it to actually see the payloads. I found the parachute and balloon all tangled up about 20 feet away, also invisible from more than 5 feet away...I wouldn't have been able to find either one without the string leading the way.

Everything is in good shape...(except me suffering from heat exhaustion). My bubble wrap enclosed payload was actually dry inside even after a week of torrential thunderstorms and still works just fine.

- Bill WB8ELK

8150. Glitch with migration to "ARHAB" name

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 14:25:04 UTC
From: Mark Conner
Topic: 8150 Message: 8150

Well, shoot. I checked to see if the "ARHAB" name was taken by going to http://groups.yahoo.com/group/arhab and the Yahoo error page said there is no group called 'arhab'. So I thought all was good. However, Rick N0KKZ mentioned to me yesterday that he tried to create a group named 'arhab' several months ago and was unable to. I tried the same thing last night and was also unable to. It's possible that there exists an 'arhab' group but that it is unlisted.

I still have a ticket open with Yahoo about the migration, so I'll see what they say. In the meantime, we may want to think of alternate names for the group. We can still have "ARHAB" as a prominent search term for the group, but it might not be named "arhab@yahoogroups.com".

73 de Mark N9XTN

8151. Re: [GPSL] Glitch with migration to "ARHAB" name

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 14:35:45 UTC
From: Zack Clobes
Topic: 8150 Message: 8151

ARHAB is available on Google Groups. Actually, it WAS available - I went ahead and created it in case we want to switch over to using Google.

I've had good luck using Google for about a year with Project: Traveler, although my volume is so low that it hasn't been a good test...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sat, Aug 21, 2010 at 9:25 AM, Mark Conner <mconner1@...> wrote:

>
>
> Well, shoot. I checked to see if the "ARHAB" name was taken by going to
> http://groups.yahoo.com/group/arhab and the Yahoo error page said there is
> no group called 'arhab'. So I thought all was good. However, Rick N0KKZ
> mentioned to me yesterday that he tried to create a group named 'arhab'
> several months ago and was unable to. I tried the same thing last night and
> was also unable to. It's possible that there exists an 'arhab' group but
> that it is unlisted.
>
> I still have a ticket open with Yahoo about the migration, so I'll see what
> they say. In the meantime, we may want to think of alternate names for the
> group. We can still have "ARHAB" as a prominent search term for the group,
> but it might not be named "arhab@yahoogroups.com".
>
> 73 de Mark N9XTN
>
>
>

8152. At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 14:54:27 UTC
From: Zack Clobes
Topic: 8152 Message: 8152

How many of you are using Facebook for ballooning or otherwise?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

8153. Re: [GPSL] At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 16:53:38 UTC
From: BASE
Topic: 8152 Message: 8153

Zack,
BASE_DePauw is a Facebook fan page that I use as a reflector for the Twitter account and as another place to post some videos and photos. I have a facebook account under the same name to control the fan page, and I have my own account to see what the fan page looks like to a 'fan.'
There is not much traffic on the fan page,but it is there.
Howard

--- On Sat, 8/21/10, Zack Clobes <zclobes@...> wrote:

From: Zack Clobes <zclobes@gmail.com>
Subject: [GPSL] At the risk of starting another religious debate....
To: "Group GPSL" <GPSL@yahoogroups.com>
Date: Saturday, August 21, 2010, 10:54 AM

How many of you are using Facebook for ballooning or otherwise?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

8154. Re: [GPSL] At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 17:15:38 UTC
From: Michael Willett
Topic: 8152 Message: 8154

Hi Zack,

Just taking a look at that myself, I added the video shown at GPSL this year to ARBONETVIDEOS on YouTube last night and was looking at an un-restricted Facebook page to use as a Blog. We have a web page named ARBONET.NET that needs updating (my ISP crashed and lost our web site), and a blog, but thought the three together, YouTube, FaceBook and a Web page may make for a really good set of tools.

--Michael K5NOT

On 8/21/2010 9:54 AM, Zack Clobes wrote:
>
> How many of you are using Facebook for ballooning or otherwise?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>

8155. Re: [GPSL] Glitch with migration to "ARHAB" name

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 17:52:44 UTC
From: Mike Manes
Topic: 8150 Message: 8155

Hey, I'd prefer a google group anyway, since yahoo's voluntarily pulled
email attachments off and required readers to pull up a browser and to
log in to see any attachment.

73 de Mike W5VSI

On 8/21/2010 08:35, Zack Clobes wrote:
>
>
> ARHAB is available on Google Groups. Actually, it WAS available - I went
> ahead and created it in case we want to switch over to using Google.
>
> I've had good luck using Google for about a year with Project: Traveler,
> although my volume is so low that it hasn't been a good test...
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Sat, Aug 21, 2010 at 9:25 AM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
> Well, shoot. I checked to see if the "ARHAB" name was taken by going to
> http://groups.yahoo.com/group/arhab and the Yahoo error page said there is
> no group called 'arhab'. So I thought all was good. However, Rick N0KKZ
> mentioned to me yesterday that he tried to create a group named 'arhab'
> several months ago and was unable to. I tried the same thing last night
> and was also unable to. It's possible that there exists an 'arhab' group
> but that it is unlisted.
>
> I still have a ticket open with Yahoo about the migration, so I'll see
> what they say. In the meantime, we may want to think of alternate names
> for the group. We can still have "ARHAB" as a prominent search term for
> the group, but it might not be named "arhab@yahoogroups.com
> <mailto:arhab@yahoogroups.com>".
>
> 73 de Mark N9XTN
>
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8156. Re: [GPSL] Glitch with migration to "ARHAB" name

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-21 20:17:50 UTC
From: Roger Hammond
Topic: 8150 Message: 8156

I've had good success with Google Groups, as well. I created one for our
local CERT membership, but like Zack it's pretty low usage.

Rog

On Sat, Aug 21, 2010 at 12:52 PM, Mike Manes <mrmanes@...> wrote:

> Hey, I'd prefer a google group anyway, since yahoo's voluntarily pulled
> email attachments off and required readers to pull up a browser and to
> log in to see any attachment.
>
> 73 de Mike W5VSI
>
> On 8/21/2010 08:35, Zack Clobes wrote:
> >
> >
> > ARHAB is available on Google Groups. Actually, it WAS available - I went
> > ahead and created it in case we want to switch over to using Google.
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> > I've had good luck using Google for about a year with Project: Traveler,
> > although my volume is so low that it hasn't been a good test...
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> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> > www.projecttraveler.org <http://www.projecttraveler.org>
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> > On Sat, Aug 21, 2010 at 9:25 AM, Mark Conner <mconner1@...
> > <mailto:mconner1@...>> wrote:
> >
> > Well, shoot. I checked to see if the "ARHAB" name was taken by going
> to
> > http://groups.yahoo.com/group/arhab and the Yahoo error page said
> there is
> > no group called 'arhab'. So I thought all was good. However, Rick
> N0KKZ
> > mentioned to me yesterday that he tried to create a group named
> 'arhab'
> > several months ago and was unable to. I tried the same thing last
> night
> > and was also unable to. It's possible that there exists an 'arhab'
> group
> > but that it is unlisted.
> >
> > I still have a ticket open with Yahoo about the migration, so I'll

> see
> > what they say. In the meantime, we may want to think of alternate
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> > for the group. We can still have "ARHAB" as a prominent search term
> for
> > the group, but it might not be named "arhab@yahoogroups.com
> > <mailto:arhab@yahoogroups.com>".
> >
> > 73 de Mark N9XTN
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> >
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> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

8157. Re: [GPSL] At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 03:54:58 UTC
From: L. Paul Verhage
Topic: 8152 Message: 8157

I twitter, but I don't facebook. Until I hear they are friendly, I won't
assoicate with them.

Paul

On Sat, Aug 21, 2010 at 12:15 PM, Michael Willett <mw@...> wrote:

>
>
> Hi Zack,
>
> Just taking a look at that myself, I added the video shown at GPSL this
> year to ARBONETVIDEOS on YouTube last night and was looking at an
> un-restricted Facebook page to use as a Blog. We have a web page named
> ARBONET.NET <http://arbonet.net/> that needs updating (my ISP crashed and
> lost our web site), and a blog, but thought the three together, YouTube,
> FaceBook and a Web page may make for a really good set of tools.
>
> --Michael K5NOT
>
>
>
> On 8/21/2010 9:54 AM, Zack Clobes wrote:
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> How many of you are using Facebook for ballooning or otherwise?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

8158. Re: [GPSL] At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 04:09:56 UTC
From: HarryM
Topic: 8152 Message: 8158

I Yahoo & Google only!

Harry KC5TRB

8159. Multiple Payload Flight Trains,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 20:08:03 UTC
From: Joe
Topic: 8159 Message: 8159
Attachments: 1 described; binary payloads are missing from this source WARC

Hi All,

Sorry for the mass mailing to all the groups here, But i guess hit them all till we get the lists all straightened out.

I'd like to contact the groups that fly multiple payloads on single flight strings.

Like I have sen maybe up to even a dozen small payloads and it does look like a train.

Any groups out there that fly these types of flights please drop me a line?

Joe WB9SBD
Near Space Sciences KB9KHO
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8160. Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 20:58:59 UTC
From: Mark Conner
Topic: 8160 Message: 8160

I got a response from Yahoo customer service earlier today. Most of the response was offering more specifics and restating their FAQ/help pages.

First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or "AR-HAB" though.

Second, if we rename "GPSL" to something else, the "GPSL" name would not be available again for 'weeks to months'.

Third, moderators can only invite 50 people per day to the list, or directly subscribe 10 per day. Obviously people could subscribe on their own with no rate limits. Yahoo offered no extra assistance in this area.

So we now have some choices, and I'm not sure which is the best.

1) Keep GPSL, start AR-HAB or AR_HAB at Yahoo
2) Keep GPSL, start ARHAB at Google (requires non-Google users to get a Google sign-in)
3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo (possibly renaming it GPSL again when that name frees up in a few months)
4) Do nothing

I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would also match superlaunch.org.

Please post your thoughts or send them direct to me if you prefer.

73 de Mark N9XTN

8161. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:20:23 UTC
From: Mike Manes
Topic: 8160 Message: 8161

IMHO, "ARHAB" is entirely arcane enough for a newbie to find, so I'm 2-thumbs-down on "AR-HAB", >especially< in light of that fact that some other outfit already has "ARHAB" - talk about potential confusion!

The original discussion of a name change started, IIRC, with a minor gripe about how the original intent of the GPSL reflector having been besmirched by its having become more of a balloonacy techie forum than just a news site for a single annual event. That event, BTW, started out a just a mass launch, and has evolved to include a full-day conference, and, more recently, even another day of touristy stuff.

I personally have no problem with that evolution, but would favor a transition to another group dedicated to balloonacy tech ONLY if its group name bears some clear mnemonic connection to that field. Maybe that can happen with google-groups?

Otherwise, let's leave well enough alone (#4) and keep the GPSL reflector active year 'round.

73 de Mike W5VSI
CTO EOSS

On 8/22/2010 14:58, Mark Conner wrote:
>
>
> I got a response from Yahoo customer service earlier today. Most of the
> response was offering more specifics and restating their FAQ/help pages.
>
> First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or
> "AR-HAB" though.
>
> Second, if we rename "GPSL" to something else, the "GPSL" name would not be
> available again for 'weeks to months'.
>
> Third, moderators can only invite 50 people per day to the list, or directly
> subscribe 10 per day. Obviously people could subscribe on their own with no
> rate limits. Yahoo offered no extra assistance in this area.
>
>
> So we now have some choices, and I'm not sure which is the best.
>
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> 2) Keep GPSL, start ARHAB at Google (requires non-Google users to get a Google
> sign-in)
> 3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo (possibly
> renaming it GPSL again when that name frees up in a few months)

> 4) Do nothing
>
> I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would also
> match superlaunch.org <http://superlaunch.org>.
>
> Please post your thoughts or send them direct to me if you prefer.
>
> 73 de Mark N9XTN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8162. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:26:10 UTC
From: Zack Clobes
Topic: 8160 Message: 8162

I'm for #4 or #2.

Zack

On Sun, Aug 22, 2010 at 4:20 PM, Mike Manes <mrmanes@...> wrote:

>
>
> IMHO, "ARHAB" is entirely arcane enough for a newbie to find, so I'm
> 2-thumbs-down on "AR-HAB", >especially< in light of that fact that some
> other outfit already has "ARHAB" - talk about potential confusion!
>
> The original discussion of a name change started, IIRC, with a minor
> gripe about how the original intent of the GPSL reflector having been
> besmirched by its having become more of a balloonacy techie forum than
> just a news site for a single annual event. That event, BTW, started out
> a just a mass launch, and has evolved to include a full-day conference,
> and, more recently, even another day of touristy stuff.
>
> I personally have no problem with that evolution, but would favor a
> transition to another group dedicated to balloonacy tech ONLY if its
> group name bears some clear mnemonic connection to that field. Maybe
> that can happen with google-groups?
>
> Otherwise, let's leave well enough alone (#4) and keep the GPSL reflector
> active year 'round.
>
> 73 de Mike W5VSI
> CTO EOSS
>
>
> On 8/22/2010 14:58, Mark Conner wrote:
> >
> >
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> > response was offering more specifics and restating their FAQ/help pages.
> >
> > First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or
> > "AR-HAB" though.
> >
> > Second, if we rename "GPSL" to something else, the "GPSL" name would not
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> > available again for 'weeks to months'.
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> > Third, moderators can only invite 50 people per day to the list, or
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> > subscribe 10 per day. Obviously people could subscribe on their own with
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> > 3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo (possibly
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> > 4) Do nothing
> >
> > I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would
> also
> > match superlaunch.org <http://superlaunch.org>.
>
> >
> > Please post your thoughts or send them direct to me if you prefer.
> >
> > 73 de Mark N9XTN
> >
> >
> >
>
> --
> Mike Manes mrmanes@gmail.com <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8163. Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:33:56 UTC
From: k6rpt
Topic: 8160 Message: 8163

I,m with Zack #4 or #2

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mark Conner <mconner1@...> wrote:
>
> I got a response from Yahoo customer service earlier today. Most of the
> response was offering more specifics and restating their FAQ/help pages.
>
> First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or
> "AR-HAB" though.
>
> Second, if we rename "GPSL" to something else, the "GPSL" name would not be
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>
> I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would
> also match superlaunch.org.
>
> Please post your thoughts or send them direct to me if you prefer.
>
> 73 de Mark N9XTN
>

8164. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:40:46 UTC
From: Joe
Topic: 8160 Message: 8164
Attachments: 1 described; binary payloads are missing from this source WARC

Is there a way, (through Yahoo support?) to contact who ever has the ARHAB, and find out what it is, and what it's being used for, and possibly if even if it's not being used at all even. I know of many groups that I have joined when they first appeared and thought it would be a good group to join, only to have it be me and the owner and no one else and not a posting in years! Maybe the current owner of ARHAB could give it up?

I wonder what it's all about even? Ya Know what can ARHAB stand for? When Googled it comesback mainly ballooning stuff

then a last name of people from the middle east, and finally an actual area of the middle east.

soo it really makes me wonder if some balloon group is the owner of it, but just forgot all about it?

or for that matter hey everyone. go to the page of yahoo groups where it lists all the ones you are a member of, (mine is currently 165 groups long) anyway go to it and make sure you are not already a member of this ARHAB group, or the owner for that matter!

I know I did just to make sure I was not the one that created it way back when and forgot all about it. (out of the 165 I did get reminded of groups I had made in the past for a purpose, but never did anything with them.)

Make sure one of our own already isn't a member or even owner of it!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/22/2010 4:20 PM, Mike Manes wrote:
> IMHO, "ARHAB" is entirely arcane enough for a newbie to find, so I'm
> 2-thumbs-down on "AR-HAB",>especially< in light of that fact that some
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> The original discussion of a name change started, IIRC, with a minor
> gripe about how the original intent of the GPSL reflector having been
> besmirched by its having become more of a balloonacy techie forum than
> just a news site for a single annual event. That event, BTW, started out
> a just a mass launch, and has evolved to include a full-day conference,

> and, more recently, even another day of touristy stuff.
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> I personally have no problem with that evolution, but would favor a
> transition to another group dedicated to balloonacy tech ONLY if its
> group name bears some clear mnemonic connection to that field. Maybe
> that can happen with google-groups?
>
> Otherwise, let's leave well enough alone (#4) and keep the GPSL reflector
> active year 'round.
>
> 73 de Mike W5VSI
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>> 4) Do nothing
>>
>> I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would also
>> match superlaunch.org<http://superlaunch.org>.
>>
>> Please post your thoughts or send them direct to me if you prefer.
>>
>> 73 de Mark N9XTN
>>
>>
>>

8165. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:44:11 UTC
From: Jerry Gable
Topic: 8160 Message: 8165

Maybe we should think about a new name instead of jumping on a variation of ARHAB right away. It makes sense if you know what it stands for but not when you first come across it. So to throw out a few names to get people thinking

HiBal - what FAA uses
HamBal - for Ham radio ballooning
HAB4AR - High altitude Balloons for Amateur Radio (maybe pronounce Hab-Far)
Balloonitics -Ive seen a few use this term

I kind of like true acronyms, ones you can pronounce.

From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Sun, August 22, 2010 1:58:59 PM
Subject: [GPSL] Update on migration from "GPSL" to "ARHAB"

I got a response from Yahoo customer service earlier today. Most of the response was offering more specifics and restating their FAQ/help pages.

First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or "AR-HAB" though.

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4) Do nothing

I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would also match superlaunch.org.

Please post your thoughts or send them direct to me if you prefer.

73 de Mark N9XTN

8166. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:44:33 UTC
From: Michael Willett
Topic: 8160 Message: 8166

I agree with Mike, but I think Zack offered ARHAB up on the Google reflector system, having reserved it for this group just in case.

Since signing up with the AR_WhateverNewGroup may be a manual task anyway, I think looking at Zack's foresight to a Google group might be very worth while.

Personally I don't care if the group is on Google, Yahoo!, or any other site, it is a virtual world and should work pretty easy once you are signed up.

--Michael

On 8/22/2010 4:20 PM, Mike Manes wrote:
>
> IMHO, "ARHAB" is entirely arcane enough for a newbie to find, so I'm
> 2-thumbs-down on "AR-HAB", >especially< in light of that fact that some
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> Otherwise, let's leave well enough alone (#4) and keep the GPSL reflector
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> > Please post your thoughts or send them direct to me if you prefer.
> >
> > 73 de Mark N9XTN
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8167. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-22 21:55:00 UTC
From: Joe
Topic: 8160 Message: 8167
Attachments: 1 described; binary payloads are missing from this source WARC

For what it's worth, I guess I'm the owner of a never ever used
AmateurBalloons
http://groups.yahoo.com/group/amateurballoons/

if we want to use that I have no problem transferring ownership to
whoever wants to manage it.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/22/2010 4:44 PM, Jerry Gable wrote:
>
>
> Maybe we should think about a new name instead of jumping on a
> variation of ARHAB right away. It makes sense if you know what it
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> HiBal - what FAA uses
> HamBal - for Ham radio ballooning
> HAB4AR - High altitude Balloons for Amateur Radio (maybe pronounce
> Hab-Far)
> Balloonitics -Ive seen a few use this term
>
> I kind of like true acronyms, ones you can pronounce.
>
> ---
> *From:* Mark Conner <mconner1@...>
> *To:* GPSL list <GPSL@yahoogroups.com>
> *Sent:* Sun, August 22, 2010 1:58:59 PM
> *Subject:* [GPSL] Update on migration from "GPSL" to "ARHAB"
>
> I got a response from Yahoo customer service earlier today. Most of
> the response was offering more specifics and restating their FAQ/help
> pages.
>
> First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB"
> or "AR-HAB" though.
>
> Second, if we rename "GPSL" to something else, the "GPSL" name would
> not be available again for 'weeks to months'.

>
> Third, moderators can only invite 50 people per day to the list, or
> directly subscribe 10 per day. Obviously people could subscribe on
> their own with no rate limits. Yahoo offered no extra assistance in
> this area.
>
>
> So we now have some choices, and I'm not sure which is the best.
>
> 1) Keep GPSL, start AR-HAB or AR_HAB at Yahoo
> 2) Keep GPSL, start ARHAB at Google (requires non-Google users to get
> a Google sign-in)
> 3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo
> (possibly renaming it GPSL again when that name frees up in a few months)
> 4) Do nothing
>
> I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name
> would also match superlaunch.org <http://superlaunch.org>.
>
> Please post your thoughts or send them direct to me if you prefer.
>
> 73 de Mark N9XTN
>
>
>
>

8168. Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 00:32:25 UTC
From: Nicholas
Topic: 8160 Message: 8168

I am also for either #2 or #4.
Nick
K0NMS
>
> I'm for #4 or #2.
>
> Zack
>
> On Sun, Aug 22, 2010 at 4:20 PM, Mike Manes <mrmanes@...> wrote:
>
> > >
> > >
> > > IMHO, "ARHAB" is entirely arcane enough for a newbie to find, so I'm
> > > 2-thumbs-down on "AR-HAB", >especially< in light of that fact that some
> > > other outfit already has "ARHAB" - talk about potential confusion!
> > >
> > > The original discussion of a name change started, IIRC, with a minor
> > > gripe about how the original intent of the GPSL reflector having been
> > > besmirched by its having become more of a balloonacy techie forum than
> > > just a news site for a single annual event. That event, BTW, started out
> > > a just a mass launch, and has evolved to include a full-day conference,
> > > and, more recently, even another day of touristy stuff.
> > >
> > > I personally have no problem with that evolution, but would favor a
> > > transition to another group dedicated to balloonacy tech ONLY if its
> > > group name bears some clear mnemonic connection to that field. Maybe
> > > that can happen with google-groups?
> > >
> > > Otherwise, let's leave well enough alone (#4) and keep the GPSL reflector
> > > active year 'round.
> > >
> > > 73 de Mike W5VSI
> > > CTO EOSS
> > >
> > >
> > > On 8/22/2010 14:58, Mark Conner wrote:
> > > >
> > > >
> > > > I got a response from Yahoo customer service earlier today. Most of the
> > > > response was offering more specifics and restating their FAQ/help pages.
> > > >
> > > > First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or
> > > > "AR-HAB" though.
> > > >
> > > > Second, if we rename "GPSL" to something else, the "GPSL" name would not

> > be
> > > available again for 'weeks to months'.
> > >
> > > Third, moderators can only invite 50 people per day to the list, or
> > directly
> > > subscribe 10 per day. Obviously people could subscribe on their own with
> > no
> > > rate limits. Yahoo offered no extra assistance in this area.
> > >
> > >
> > > So we now have some choices, and I'm not sure which is the best.
> > >
> > > 1) Keep GPSL, start AR-HAB or AR_HAB at Yahoo
> > > 2) Keep GPSL, start ARHAB at Google (requires non-Google users to get a
> > Google
> > > sign-in)
> > > 3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo (possibly
> > > renaming it GPSL again when that name frees up in a few months)
> > > 4) Do nothing
> > >
> > > I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would
> > also
> > > match superlaunch.org <http://superlaunch.org>.
> >
> > >
> > > Please post your thoughts or send them direct to me if you prefer.
> > >
> > > 73 de Mark N9XTN
> > >
> > >
> > >
> >
> > --
> > Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
> >
>

8169. Re: [GPSL] Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 01:48:14 UTC
From: Roger Hammond
Topic: 8160 Message: 8169

I'll vote for #2 or #4, as well.

Rog KC0MWM

On Sun, Aug 22, 2010 at 3:58 PM, Mark Conner <mconner1@...> wrote:

>
>
> I got a response from Yahoo customer service earlier today. Most of the
> response was offering more specifics and restating their FAQ/help pages.
>
> First, the Yahoo name "ARHAB" is indeed taken. We could get "AR_HAB" or
> "AR-HAB" though.
>
> Second, if we rename "GPSL" to something else, the "GPSL" name would not be
> available again for 'weeks to months'.
>
> Third, moderators can only invite 50 people per day to the list, or
> directly subscribe 10 per day. Obviously people could subscribe on their
> own with no rate limits. Yahoo offered no extra assistance in this area.
>
>
> So we now have some choices, and I'm not sure which is the best.
>
> 1) Keep GPSL, start AR-HAB or AR_HAB at Yahoo
> 2) Keep GPSL, start ARHAB at Google (requires non-Google users to get a
> Google sign-in)
> 3) Rename GPSL to AR-HAB or AR_HAB, start SuperLaunch at Yahoo (possibly
> renaming it GPSL again when that name frees up in a few months)
> 4) Do nothing
>
> I'm leaning towards #3 and calling it AR-HAB. The SuperLaunch name would
> also match superlaunch.org.
>
> Please post your thoughts or send them direct to me if you prefer.
>
> 73 de Mark N9XTN
>
>
>

8170. Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 02:43:14 UTC
From: Mark Conner
Topic: 8160 Message: 8170

I could be talked into option 2 (start the ARHAB list on Google Groups). I've already got both Google and Yahoo IDs so that isn't very difficult for me. I don't know how many on the list would need to have a Google ID just for this and would be reluctant to get one. Zack, can you directly subscribe members to a Google group or is it required to have a Google ID? If we can do direct subscription, the moderators could add a person to the list and they wouldn't need a Google ID.

Given the lack of assistance offered by Yahoo support with the migration of the list to a new name, I don't think they'll help us contact the Yahoo ARHAB list owner, nor help talk them into giving it up. Plus it would be the 'weeks or months' quoted me before the ID became available even if the current owner did delete it.

I'll be putting up a membership poll shortly so people can provide input even if they'd rather not do so publicly on the forum. The poll will be more advisory in nature rather than sealing the group's fate solely by the vote count.

Keep brainstorming and throwing out ideas!

73 de Mark N9XTN

8171. New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 02:52:53 UTC
From: GPSL@yahoogroups.com
Topic: 8171 Message: 8171

Enter your vote today! A new poll has been created for the
GPSL group:

The GPSL group was originally created to discuss the annual
Great Plains Super Launch, but now also discusses general
ARHAB topics. The question is whether to migrate the more
general discussions to a separate list and return GPSL to its
original purpose, or keep things as they are. The ARHAB
name is taken on Yahoo, but is available on Google. Also,
if we rename GPSL to AR-HAB, the GPSL list will not be
available for reuse for weeks or months.

o Keep GPSL, start AR-HAB on Yahoo
o Keep GPSL, start ARHAB at Google
o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
o Keep all discussions on GPSL, no new list

To vote, please visit the following web page:
http://groups.yahoo.com/group/GPSL/surveys?id=13030919

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

8172. Re: [GPSL] Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 03:10:56 UTC
From: Joe
Topic: 8160 Message: 8172

On 8/22/2010 9:43 PM, Mark Conner wrote:
>
> Given the lack of assistance offered by Yahoo support with the
> migration of the list to a new name, I don't think they'll help us
> contact the Yahoo ARHAB list owner, nor help talk them into giving it
> up. Plus it would be the 'weeks or months' quoted me before the ID
> became available even if the current owner did delete it.

But see that wouldn't have to happen either. all the existing owner
would do is send invites to the person thats gonna take over and then
after they are signed up make them moderator.

BUT,

now I remember something in the back of my head that might be a
problem, If i remember correctly, once a group is made to be a private
or hidden group it can never be made open to the public again, maybe?

Joe WB9SBD
>

8173. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 04:14:13 UTC
From: L. Paul Verhage
Topic: 8171 Message: 8173

I'm happy to keep discussions on GPSL I understand that may make a little
more difficult for new people to find us.

Paul

On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com> wrote:

>
> Enter your vote today! A new poll has been created for the
> GPSL group:
>
> The GPSL group was originally created to discuss the annual
> Great Plains Super Launch, but now also discusses general
> ARHAB topics. The question is whether to migrate the more
> general discussions to a separate list and return GPSL to its
> original purpose, or keep things as they are. The ARHAB
> name is taken on Yahoo, but is available on Google. Also,
> if we rename GPSL to AR-HAB, the GPSL list will not be
> available for reuse for weeks or months.
>
> o Keep GPSL, start AR-HAB on Yahoo
> o Keep GPSL, start ARHAB at Google
> o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
> o Keep all discussions on GPSL, no new list
>
>
> To vote, please visit the following web page:
> http://groups.yahoo.com/group/GPSL/surveys?id=13030919
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!
>
>
>
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>
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> ---------------------------------
>
> Yahoo! Groups Links
>
>

>
>

--
Onwards and Upwards,
Paul

8174. Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 18:52:06 UTC
From: n1ltv
Topic: 8160 Message: 8174

> Maybe we should think about a new name instead of jumping on a
> variation of ARHAB right away. It makes sense if you know what it
> stands for but not when you first come across it.

I think Jerry's idea has real merit. Variations of ARHAB, and
ARHAB itself are not as likely to guide people doing a websearch
as more obvious names would.

Hank

8175. Re: [GPSL] Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 19:42:59 UTC
From: Mike Manes
Topic: 8160 Message: 8175

Does simple membership on a google reflector require signing up with google,
or is that just required to get to the group web site - like yahoo?
73 de Mike W5VSI

On 8/22/2010 20:43, Mark Conner wrote:
>
>
> I could be talked into option 2 (start the ARHAB list on Google Groups). I've
> already got both Google and Yahoo IDs so that isn't very difficult for me. I
> don't know how many on the list would need to have a Google ID just for this
> and would be reluctant to get one. Zack, can you directly subscribe members
> to a Google group or is it required to have a Google ID? If we can do direct
> subscription, the moderators could add a person to the list and they wouldn't
> need a Google ID.
>
> Given the lack of assistance offered by Yahoo support with the migration of
> the list to a new name, I don't think they'll help us contact the Yahoo ARHAB
> list owner, nor help talk them into giving it up. Plus it would be the 'weeks
> or months' quoted me before the ID became available even if the current owner
> did delete it.
>
> I'll be putting up a membership poll shortly so people can provide input even
> if they'd rather not do so publicly on the forum. The poll will be more
> advisory in nature rather than sealing the group's fate solely by the vote count.
>
> Keep brainstorming and throwing out ideas!
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8176. Re: [GPSL] Re: Update on migration from "GPSL" to "ARHAB"

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 19:47:24 UTC
From: Mark Conner
Topic: 8160 Message: 8176

Rick N0KKZ ran an experiment and found that users can subscribe to a Google Groups list without a Google ID. One is required to work with the Google Groups website. So it appears it's a lot like Yahoo in that regard.

73 de Mark N9XTN

On Mon, Aug 23, 2010 at 14:42, Mike Manes <mrmanes@...> wrote:

> Does simple membership on a google reflector require signing up with
> google,
> or is that just required to get to the group web site - like yahoo?
> 73 de Mike W5VSI
>
>

8177. Fwd: [Balloonatics] NASA Summer of Inovation

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-23 21:11:39 UTC
From: Mike Manes
Topic: 8177 Message: 8177

-------- Original Message --------
Subject: [Balloonatics] NASA Summer of Inovation
Date: Mon, 23 Aug 2010 13:52:31 -0500
From: Snyder, David B. (GRC-RPV0) <david.b.snyder@...>
Reply-To: Balloonatics@yahoogroups.com
To: balloonatics@yahoogroups.com <balloonatics@yahoogroups.com>

This might be of interest for some balloon groups. Looks like it's a program
targeted to Middle School STEM programs.

http://www.nasa.gov/pdf/472104main_SoI_PartnershipAO_Aug19.pdf
http://www.nasa.gov/offices/education/programs/national/summer/home/index.html

-david snyder, KB8PVR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8178. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 02:30:18 UTC
From: ccccrnr@aim.com
Topic: 8171 Message: 8178

Paul,

Actually I think it is confusing how many list there already are.

And with all the activity showing on each, to a be comer they probably don't want all the email...
it would crash their inbox.

I think perhaps a forum would be the best to start for ARHAB or a wiki FAQ

something made newby friendly and Google searchable for many answer and discussions that keep coming up.

And let GPSL be open to all "NEW Questions and Concerns"

Carlton
-.- .. ....- -. .... -.-

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Sun, Aug 22, 2010 7:14 pm
Subject: Re: [GPSL] New poll for GPSL

I'm happy to keep discussions on GPSL I understand that may make a little more difficult for new people to find us.

Paul

On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com> wrote:

Enter your vote today! A new poll has been created for the
GPSL group:

The GPSL group was originally created to discuss the annual
Great Plains Super Launch, but now also discusses general
ARHAB topics. The question is whether to migrate the more
general discussions to a separate list and return GPSL to its
original purpose, or keep things as they are. The ARHAB
name is taken on Yahoo, but is available on Google. Also,
if we rename GPSL to AR-HAB, the GPSL list will not be
available for reuse for weeks or months.

o Keep GPSL, start AR-HAB on Yahoo
o Keep GPSL, start ARHAB at Google
o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
o Keep all discussions on GPSL, no new list

To vote, please visit the following web page:
http://groups.yahoo.com/group/GPSL/surveys?id=13030919

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

8179. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 03:04:11 UTC
From: Joe
Topic: 8171 Message: 8179
Attachments: 1 described; binary payloads are missing from this source WARC

I thought there was a wiki someplace,

and if it's a forum format NSS is gone.

I miss the weekly flight announcements that came via e mail.

Having to go to a web page to find stuff sucks OK I'm lazy. I would
rather hit the delete button 100 times deleting stuff that doesn't
interest me than have to dig through a forum to find anything that does
interest me.

The flow of information in a forum just doesn't work.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/23/2010 9:30 PM, ccccrnr@... wrote:
>
>
> Paul,
>
> Actually I think it is confusing how many list there already are.
>
> And with all the activity showing on each, to a be comer they probably
> don't want all the email...
> it would crash their inbox.
>
> I think perhaps a forum would be the best to start for ARHAB or a wiki FAQ
>
> something made newby friendly and Google searchable for many answer
> and discussions that keep coming up.
>
> And let GPSL be open to all "NEW Questions and Concerns"
>
> Carlton
> -.- .. ....- -. .... -.-
>
>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: GPSL <GPSL@yahoogroups.com>

> Sent: Sun, Aug 22, 2010 7:14 pm
> Subject: Re: [GPSL] New poll for GPSL
>
> I'm happy to keep discussions on GPSL I understand that may make a
> little more difficult for new people to find us.
> Paul
>
> On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com>> wrote:
>
>
> Enter your vote today! A new poll has been created for the
> GPSL group:
>
> The GPSL group was originally created to discuss the annual
> Great Plains Super Launch, but now also discusses general
> ARHAB topics. The question is whether to migrate the more
> general discussions to a separate list and return GPSL to its
> original purpose, or keep things as they are. The ARHAB
> name is taken on Yahoo, but is available on Google. Also,
> if we rename GPSL to AR-HAB, the GPSL list will not be
> available for reuse for weeks or months.
>
> o Keep GPSL, start AR-HAB on Yahoo
> o Keep GPSL, start ARHAB at Google
> o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
> o Keep all discussions on GPSL, no new list
>
>
> To vote, please visit the following web page:
> http://groups.yahoo.com/group/GPSL/surveys?id=13030919
>
> Note: Please do not reply to this message. Poll votes are
> not collected via email. To vote, you must go to the Yahoo! Groups
> web site listed above.
>
> Thanks!
>
>
>
>
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>

>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8180. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 03:15:06 UTC
From: Joe
Topic: 8171 Message: 8180
Attachments: 2 described; binary payloads are missing from this source WARC

yup there is a wiki
http://en.wikipedia.org/wiki/Amateur_Radio_High_Altitude_Ballooning
Not a lot there but it's a start.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/23/2010 10:04 PM, Joe wrote:
> I thought there was a wiki someplace,
>
> and if it's a forum format NSS is gone.
>
> I miss the weekly flight announcements that came via e mail.
>
> Having to go to a web page to find stuff sucks OK I'm lazy. I would
> rather hit the delete button 100 times deleting stuff that doesn't
> interest me than have to dig through a forum to find anything that
> does interest me.
>
> The flow of information in a forum just doesn't work.
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/23/2010 9:30 PM, ccccrnr@... wrote:
>> Paul,
>>
>> Actually I think it is confusing how many list there already are.
>>
>> And with all the activity showing on each, to a be comer they
>> probably don't want all the email...
>> it would crash their inbox.
>>
>> I think perhaps a forum would be the best to start for ARHAB or a
>> wiki FAQ

>>
>> something made newby friendly and Google searchable for many answer
>> and discussions that keep coming up.
>>
>> And let GPSL be open to all "NEW Questions and Concerns"
>>
>> Carlton
>> -.- .. ....- -. .... -.-
>>
>>
>> -----Original Message-----
>> From: L. Paul Verhage <nearsys@...>
>> To: GPSL <GPSL@yahoogroups.com>
>> Sent: Sun, Aug 22, 2010 7:14 pm
>> Subject: Re: [GPSL] New poll for GPSL
>>
>> I'm happy to keep discussions on GPSL I understand that may make a
>> little more difficult for new people to find us.
>> Paul
>>
>> On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com
>> <mailto:GPSL@yahoogroups.com>> wrote:
>>
>>
>> Enter your vote today! A new poll has been created for the
>> GPSL group:
>>
>> The GPSL group was originally created to discuss the annual
>> Great Plains Super Launch, but now also discusses general
>> ARHAB topics. The question is whether to migrate the more
>> general discussions to a separate list and return GPSL to its
>> original purpose, or keep things as they are. The ARHAB
>> name is taken on Yahoo, but is available on Google. Also,
>> if we rename GPSL to AR-HAB, the GPSL list will not be
>> available for reuse for weeks or months.
>>
>> o Keep GPSL, start AR-HAB on Yahoo
>> o Keep GPSL, start ARHAB at Google
>> o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
>> o Keep all discussions on GPSL, no new list
>>
>>
>> To vote, please visit the following web page:
>> http://groups.yahoo.com/group/GPSL/surveys?id=13030919
>>
>> Note: Please do not reply to this message. Poll votes are
>> not collected via email. To vote, you must go to the Yahoo! Groups
>> web site listed above.
>>
>> Thanks!

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>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul

8181. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 08:16:40 UTC
From: natewac@aol.com
Topic: 8171 Message: 8181
Attachments: 1 described; binary payloads are missing from this source WARC

I'm a newbie here. I joined the GPSL to gain as much information on ballooning as possible. I don't launch but do try to work the balloons as much as possible. I also live in Ohio, Nowhere near the Great Plans so maybe my 2 cents worth doesn't count. This thread has gone on sooo long I can hardly remember how it started. I think it was about too much conversation on GPSL which was set up just for Graet Plans balloon launching announcements. If this isn't the case then just ignore this email. If this is the case, would it be better just to have a web site set up just like ARHAB Balloon Announcements? Then there wouldn't be hardly any posting at all here. From an outsider looking in....I also think it would be easier to hit the delete button than to go off and find the information that one is interested in. Again just my 2 cents worth from an outsider.

N8WAC,Tony

-----Original Message-----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: ccccrnr@aim.com
Sent: Mon, Aug 23, 2010 11:04 pm
Subject: Re: [GPSL] New poll for GPSL

I thought there was a wiki someplace,

and if it's a forum format NSS is gone.

I miss the weekly flight announcements that came via e mail.

Having to go to a web page to find stuff sucks OK I'm lazy. I would rather hit the delete button 100 times deleting stuff that doesn't interest me than have to dig through a forum to find anything that does interest me.

The flow of information in a forum just doesn't work.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/23/2010 9:30 PM, ccccrnr@... wrote:
Paul,

Actually I think it is confusing how many list there already are.

And with all the activity showing on each, to a be comer they probably don't want all the email...

it would crash their inbox.

I think perhaps a forum would be the best to start for ARHAB or a wiki FAQ

something made newby friendly and Google searchable for many answer and discussions that keep coming up.

And let GPSL be open to all "NEW Questions and Concerns"

Carlton
-.- .. ....- -. .... -.-

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Sun, Aug 22, 2010 7:14 pm
Subject: Re: [GPSL] New poll for GPSL

I'm happy to keep discussions on GPSL I understand that may make a little more difficult for new people to find us.

Paul

On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com> wrote:

Enter your vote today! A new poll has been created for the
GPSL group:

The GPSL group was originally created to discuss the annual
Great Plains Super Launch, but now also discusses general
ARHAB topics. The question is whether to migrate the more
general discussions to a separate list and return GPSL to its
original purpose, or keep things as they are. The ARHAB
name is taken on Yahoo, but is available on Google. Also,
if we rename GPSL to AR-HAB, the GPSL list will not be
available for reuse for weeks or months.

o Keep GPSL, start AR-HAB on Yahoo
o Keep GPSL, start ARHAB at Google
o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
o Keep all discussions on GPSL, no new list

To vote, please visit the following web page:
http://groups.yahoo.com/group/GPSL/surveys?id=13030919

Note: Please do not reply to this message. Poll votes are
not collected via email. To vote, you must go to the Yahoo! Groups
web site listed above.

Thanks!

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

8182. Scientist: World's helium being squandered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 08:38:59 UTC
From: Greg Williams
Topic: 8182 Message: 8182

http://www.upi.com/Science_News/2010/08/23/Scientist-Worlds-helium-being-squandered/UPI-60551282600133/

As if they needed ANOTHER excuse to jack up the price of helium...

WASHINGTON, Aug. 23 (UPI) -- The world is running out of helium, a resource that cannot be renewed, and supplies could run out in 25 to 30 years, a U.S. researcher says.

Nobel-prize winning physicist Robert Richardson warns that the inert gas is being sold off far too cheaply -- so cheaply there is no incentive to recycle it -- and world supplies of the gas, a vital component of medical MRI scanners, spacecraft and rockets, could be gone in just decades, Britain's The Telegraph reported Monday.

About 80 per cent of the world's reserves are in the U.S. Southwest at the U.S. National Helium Reserve in Amarillo, Texas, but a recently passed law has ruled the reserve must be sold off by 2015 regardless of market price, Britain's Independent said.

"As a result of that act, helium is far too cheap and is not treated as a precious resource," Richardson says. "It's being squandered."

More of the story at the link up top.

Greg Williams
gregwilliams@...
k4hsm@...

8183. Re: [GPSL] New poll for GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 12:56:24 UTC
From: Keith Kaiser
Topic: 8171 Message: 8183

Once a decision has been reached on a mail server, we can start making and recommending other changes to the way we work. Including but not limited to a weekly flight announcement eMail again. But first I think we need to figure out how to handle the eMail system(s) we have.

On Aug 23, 2010, at 10:04 PM, Joe wrote:

> I thought there was a wiki someplace,
>
> and if it's a forum format NSS is gone.
>
> I miss the weekly flight announcements that came via e mail.
>
> Having to go to a web page to find stuff sucks OK I'm lazy. I would rather hit the delete button 100 times deleting stuff that doesn't interest me than have to dig through a forum to find anything that does interest me.
>
> The flow of information in a forum just doesn't work.
>
> Joe WB9SBD
> Near Space Sciences
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 8/23/2010 9:30 PM, ccccrnr@... wrote:
>>
>> Paul,
>>
>> Actually I think it is confusing how many list there already are.
>>
>> And with all the activity showing on each, to a be comer they probably don't want all the email...
>> it would crash their inbox.
>>
>> I think perhaps a forum would be the best to start for ARHAB or a wiki FAQ
>>
>> something made newby friendly and Google searchable for many answer and discussions that keep coming up.
>>
>> And let GPSL be open to all "NEW Questions and Concerns"
>>
>> Carlton

>> -.- .. ....- -. .... -.-
>>
>>
>> -----Original Message-----
>> From: L. Paul Verhage <nearsys@gmail.com>
>> To: GPSL <GPSL@yahoogroups.com>
>> Sent: Sun, Aug 22, 2010 7:14 pm
>> Subject: Re: [GPSL] New poll for GPSL
>>
>> I'm happy to keep discussions on GPSL I understand that may make a little more difficult for new people to find us.
>>
>> Paul
>>
>> On Sun, Aug 22, 2010 at 9:52 PM, <GPSL@yahoogroups.com> wrote:
>>
>> Enter your vote today! A new poll has been created for the
>> GPSL group:
>>
>> The GPSL group was originally created to discuss the annual
>> Great Plains Super Launch, but now also discusses general
>> ARHAB topics. The question is whether to migrate the more
>> general discussions to a separate list and return GPSL to its
>> original purpose, or keep things as they are. The ARHAB
>> name is taken on Yahoo, but is available on Google. Also,
>> if we rename GPSL to AR-HAB, the GPSL list will not be
>> available for reuse for weeks or months.
>>
>> o Keep GPSL, start AR-HAB on Yahoo
>> o Keep GPSL, start ARHAB at Google
>> o Rename GPSL to AR-HAB on Yahoo, start SuperLaunch on Yahoo
>> o Keep all discussions on GPSL, no new list
>>
>>
>> To vote, please visit the following web page:
>> http://groups.yahoo.com/group/GPSL/surveys?id=13030919
>>
>> Note: Please do not reply to this message. Poll votes are
>> not collected via email. To vote, you must go to the Yahoo! Groups
>> web site listed above.
>>
>> Thanks!
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>> Yahoo! Groups Links
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>> --
>> Onwards and Upwards,
>> Paul

8184. Re: [GPSL] At the risk of starting another religious debate....

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 15:09:35 UTC
From: Mark Garrett
Topic: 8152 Message: 8184

I use Facebook otherwise but at times promote ballooning on it.

Mark Garrett

From: Zack Clobes <zclobes@gmail.com>
To: Group GPSL <GPSL@yahoogroups.com>
Sent: Sat, August 21, 2010 9:54:27 AM
Subject: [GPSL] At the risk of starting another religious debate....

How many of you are using Facebook for ballooning or otherwise?

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

8185. Re: [GPSL] Scientist: World's helium being squandered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 18:51:43 UTC
From: Mike Manes
Topic: 8182 Message: 8185

Fortunately, we in ARHAB do have a serviceable, albeit spookier, alternative lift gas: Hydrogen. Further, it's always been less expensive than He, and it's getting more so as the He reserve is depleted.

Now, it's also true that He is a byproduct from natural gas wells that's largely just vented. However, once the commodity price of He gets high enough, then it's likely that more natural gas suppliers will invest in the cryogenic processing necessary to recover the He product. Hopefully, that will occur before those for whom there is no alternative to He suffer too greatly.

ARHAB can help by getting cracking on developing and implementing methods for the safe and effective storage, transport and use of H2 for a fill gas.

73 de Mike W5VSI

On 8/24/2010 02:38, Greg Williams wrote:
> http://www.upi.com/Science_News/2010/08/23/Scientist-Worlds-helium-being-squandered/UPI-60551282600133/
>
> As if they needed ANOTHER excuse to jack up the price of helium...
>
>
> WASHINGTON, Aug. 23 (UPI) -- The world is running out of helium, a
> resource that cannot be renewed, and supplies could run out in 25 to
> 30 years, a U.S. researcher says.
>
> Nobel-prize winning physicist Robert Richardson warns that the inert
> gas is being sold off far too cheaply -- so cheaply there is no
> incentive to recycle it -- and world supplies of the gas, a vital
> component of medical MRI scanners, spacecraft and rockets, could be
> gone in just decades, Britain's The Telegraph reported Monday.
>
> About 80 per cent of the world's reserves are in the U.S. Southwest at
> the U.S. National Helium Reserve in Amarillo, Texas, but a recently
> passed law has ruled the reserve must be sold off by 2015 regardless
> of market price, Britain's Independent said.
>
> "As a result of that act, helium is far too cheap and is not treated
> as a precious resource," Richardson says. "It's being squandered."
>
>
>
> More of the story at the link up top.
>
>

>
> Greg Williams
> gregwilliams@...
> k4hsm@...
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8186. Slightly O.T.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 20:19:46 UTC
From: Al Wolfe
Topic: 8186 Message: 8186

It is with deap regret that I report the passing of Arlo Raim, KB9LLF. While I doubt that he aver tracked a balloon package, he was a legend in tracking birds with small transmitters aboard. Arlo probably had more experience in DFing than any 50 people combined, as he had been at it daily for more than 35 years. His old beat up Saturn station wagon with a big VHF Yagi on top was a familiar sight to us here in east central Illinois as he tracked his quary at all hours. Arlo also had the dubious distinction of being the cause of more calls to the sheriff's office in Champaign County than anyone in history.

Arlo was stuck by a freight train and killed instantly yesterday morning west of Chicago while plying his craft of DFing birds.

See http://www.chicagotribune.com/news/local/ct-met-bird-tracker-killed-0824-2010823,0,7368669.story .

Arlo's credit in wildlife research go back to the 1960's. He enjoyed an international reputation in avian research.

As one who has been involved with tracking and searching for balloon packages, and a sometimes avid foxhunter, I think this is a sobering story.

Al, K9SI

8187. Re: [GPSL] Slightly O.T.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 20:46:28 UTC
From: Rodney Sparks
Topic: 8186 Message: 8187

Al-

Very sorry to hear this!

FYI, the link you sent didn't work right... here's a new link:
http://www.chicagotribune.com/news/local/ct-met-bird-tracker-killed-0824-20100823,0,7368669.story

-Rodney
rodney@...

On Tue, Aug 24, 2010 at 1:19 PM, Al Wolfe <k9si@...> wrote:

> It is with deap regret that I report the passing of Arlo Raim, KB9LLF.
> While I doubt that he aver tracked a balloon package, he was a legend in
> tracking birds with small transmitters aboard. Arlo probably had more
> experience in DFing than any 50 people combined, as he had been at it daily
> for more than 35 years. His old beat up Saturn station wagon with a big VHF
> Yagi on top was a familiar sight to us here in east central Illinois as he
> tracked his quary at all hours. Arlo also had the dubious distinction of
> being the cause of more calls to the sheriff's office in Champaign County
> than anyone in history.
>
> Arlo was stuck by a freight train and killed instantly yesterday morning
> west of Chicago while plying his craft of DFing birds.
>
> See
>
> http://www.chicagotribune.com/news/local/ct-met-bird-tracker-killed-0824-2010823,0,7368669.story.
>
> Arlo's credit in wildlife research go back to the 1960's. He enjoyed an
> international reputation in avian research.
>
> As one who has been involved with tracking and searching for balloon
> packages, and a sometimes avid foxhunter, I think this is a sobering story.
>
> Al, K9SI
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> Yahoo! Groups Links
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8188. # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-24 22:29:01 UTC
From: Joe
Topic: 8188 Message: 8188
Attachments: 1 described; binary payloads are missing from this source WARC

While we here at Near Space Sciences are up to flight 50, But it got me to thinking,

What group has had the most flights?

I'm thinking it's a race between EOSS with their 150+ flights, and or Bill Brown WB8ELK # of flights unknown.

So Bill, Denver,, who has had more flights?

Joe WB9SBD
Near Space Sciences
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8189. Re: [GPSL] # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 02:24:43 UTC
From: L. Paul Verhage
Topic: 8188 Message: 8189
Attachments: 1 described; binary payloads are missing from this source WARC

I've got 81. Does that count?

Paul

On Tue, Aug 24, 2010 at 5:29 PM, Joe <nss@...> wrote:

> While we here at Near Space Sciences are up to flight 50, But it got me
> to thinking,
>
> What group has had the most flights?
>
> I'm thinking it's a race between EOSS with their 150+ flights, and or
> Bill Brown WB8ELK # of flights unknown.
>
> So Bill, Denver,, who has had more flights?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

--
Onwards and Upwards,
Paul

8190. Re: [GPSL] # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 03:07:08 UTC
From: Joe
Topic: 8188 Message: 8190
Attachments: 2 described; binary payloads are missing from this source WARC

Cool, thats still pretty good.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/24/2010 9:24 PM, L. Paul Verhage wrote:
>
>
> I've got 81. Does that count?
> Paul
>
> On Tue, Aug 24, 2010 at 5:29 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> While we here at Near Space Sciences are up to flight 50, But it
> got me to thinking,
>
> What group has had the most flights?
>
> I'm thinking it's a race between EOSS with their 150+ flights,
> and or Bill Brown WB8ELK # of flights unknown.
>
> So Bill, Denver,, who has had more flights?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8191. Re: # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 03:11:15 UTC
From: n1ltv
Topic: 8188 Message: 8191

> I've got 81. Does that count?

Paul,

I hope you can compile a list of those 81 by location, date,
and perhaps at least a brief description of payload and
size balloon used.

That would make for good reading.

Hank

8192. Re: [GPSL] # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 06:47:50 UTC
From: wb8elk@aol.com
Topic: 8188 Message: 8192
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe....I will have to sit down and try to figure out just how many flights I've done or had payloads on....approximately 10 to 20 flights per year for 23 years....so approximately 300 to 400 flights to date but would guess it's closer to 400. Also have launched in 20 states so far as well.

It all depends on how you categorize things....I've flown a lot of payloads on other flight trains, particularly when I'm helping a group get started with their first flight or as part of university student flights, I've done quite a few of those kind of flights....also have done well over 20 ozonesonde hitchhiker flights, maybe more (can't resist a free ride as long as I keep my payload under 12 ounces). The payload weights I've flown has ranged from 2 ounces on up to 400 pound rockets....the largest balloon I've flown so far was a 512,000 cubic foot Aerostar zero pressure. Been flying about once a week lately. It's curious how the wind patterns can be the same from year to year. My Field Day balloon this year landed 400 feet from where my Field Day 2008 balloon landed. This week's payload landed 2 miles from where it did last week.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, Aug 24, 2010 5:29 pm
Subject: [GPSL] # Of Flights

While we here at Near Space Sciences are up to flight 50, But it got me to thinking,

What group has had the most flights?

I'm thinking it's a race between EOSS with their 150+ flights, and or Bill Brown WB8ELK # of flights unknown.

So Bill, Denver,, who has had more flights?

Joe WB9SBD
Near Space Sciences

--

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Idle-Tyme.com
http://www.idle-tyme.com

8193. Re: [GPSL] # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 12:13:30 UTC
From: Jeff Dailey
Topic: 8188 Message: 8193

Joe,

Taylor University will be at 241 as of the end of next week. The 250th flight will be this October 9th as part of homecoming.

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

From: Joe <nss@mwt.net>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, August 24, 2010 6:29:01 PM
Subject: [GPSL] # Of Flights

While we here at Near Space Sciences are up to flight 50, But it got me to thinking,

What group has had the most flights?

I'm thinking it's a race between EOSS with their 150+ flights, and or Bill Brown WB8ELK # of flights unknown.

So Bill, Denver,, who has had more flights?

Joe WB9SBD
Near Space Sciences

--

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8194. Re: [GPSL] # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 13:14:20 UTC
From: Joe
Topic: 8188 Message: 8194
Attachments: 2 described; binary payloads are missing from this source WARC

Wow Bill,

Yeah I guess you would be way up there,, but never thought of doing the
math before!

But Yikes! he he he..

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/25/2010 1:47 AM, wb8elk@... wrote:
> Hi Joe....I will have to sit down and try to figure out just how many
> flights I've done or had payloads on....approximately 10 to 20 flights
> per year for 23 years....so approximately 300 to 400 flights to date
> but would guess it's closer to 400. Also have launched in 20 states so
> far as well.
> It all depends on how you categorize things....I've flown a lot of
> payloads on other flight trains, particularly when I'm helping a group
> get started with their first flight or as part of university student
> flights, I've done quite a few of those kind of flights....also have
> done well over 20 ozonesonde hitchhiker flights, maybe more (can't
> resist a free ride as long as I keep my payload under 12 ounces). The
> payload weights I've flown has ranged from 2 ounces on up to 400 pound
> rockets....the largest balloon I've flown so far was a 512,000 cubic
> foot Aerostar zero pressure. Been flying about once a week lately.
> It's curious how the wind patterns can be the same from year to year.
> My Field Day balloon this year landed 400 feet from where my Field Day
> 2008 balloon landed. This week's payload landed 2 miles from where it
> did last week.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Joe <nss@...>
> To: gpsl <GPSL@yahoogroups.com>
> Sent: Tue, Aug 24, 2010 5:29 pm
> Subject: [GPSL] # Of Flights
>
> While we here at Near Space Sciences are up to flight 50, But it got

> me to thinking,
>
> What group has had the most flights?
>
> I'm thinking it's a race between EOSS with their 150+ flights, and
> or Bill Brown WB8ELK # of flights unknown.
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> So Bill, Denver,, who has had more flights?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>

8195. Re: [GPSL] Re: # Of Flights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 13:21:26 UTC
From: L. Paul Verhage
Topic: 8188 Message: 8195

http://nearsys.com/arhab/arhab.htm

On Tue, Aug 24, 2010 at 10:11 PM, n1ltv <n1ltv@...> wrote:

> > I've got 81. Does that count?
>
>
> Paul,
>
> I hope you can compile a list of those 81 by location, date,
> and perhaps at least a brief description of payload and
> size balloon used.
>
> That would make for good reading.
>
> Hank
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

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Onwards and Upwards,
Paul

8196. helium being sold too cheaply?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-25 14:58:59 UTC
From: Mark Caviezel
Topic: 8196 Message: 8196

I love it when Nobel-prize winning scientist says things like "Helium is being sold too cheaply." If he truly believes that, he should start his own gas company and charge what he thinks is a good price. I'll predict his business demise if he charges far above the competitive market price. My advice to him: stick to the science.

- mark ng0x

ps and his info is bogus. I happen to know a man who maintains all the MRIs in a large western state. Helium conservation is a huge factor for how they run and maintain those machines because of the market price of helium.

8197. Helium Tank Threads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-26 23:45:05 UTC
From: Pete Lilja
Topic: 8197 Message: 8197

Recently I had asked about regulators for helium tanks and it was suggested I purchase a balloon filler from an eBay seller. I did and it arrived today. The regulator / filler has a shaft with external threads and I seem to remember that the helium tank's valve also has external threads. Is my memory wrong or do I need to get a nut (union) for my regulator / filler?

I also remember that someone posted here (or on some Yahoo group) a McMaster Carr part number for a fitting that will fit on a hydrogen tank and allow the use of a helium-type regulator. I can't find it in a search of the groups' messages. Can anyone help with that?

Pete
KC0GPB

8198. Re: [GPSL] Helium Tank Threads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-27 01:15:04 UTC
From: BASE
Topic: 8197 Message: 8198

Pete,
Helium tanks have internal threads on the valve. The valve head is CGA 580 (same as nitrogen).
Hydrogen is CGA 350.
If you want to use the helium regulator, you would need a CGA 350 to CGA 580 adapter.
Howard
--- On Thu, 8/26/10, Pete Lilja <plilja@...> wrote:

From: Pete Lilja <plilja@...>
Subject: [GPSL] Helium Tank Threads
To: "gpsl" <GPSL@yahoogroups.com>
Date: Thursday, August 26, 2010, 7:45 PM

Recently I had asked about regulators for helium tanks and it was suggested I purchase a balloon filler from an eBay seller. I did and it arrived today. The regulator / filler has a shaft with external threads and I seem to remember that the helium tank's valve also has external threads. Is my memory wrong or do I need to get a nut (union) for my regulator / filler?

I also remember that someone posted here (or on some Yahoo group) a McMaster Carr part number for a fitting that will fit on a hydrogen tank and allow the use of a helium-type regulator. I can't find it in a search of the groups' messages. Can anyone help with that?

Pete
KC0GPB

8199. Re: Helium Tank Threads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-27 01:42:12 UTC
From: n1ltv
Topic: 8197 Message: 8199

Both messages below reprinted in their entirety from
June 2007 GPSL.

Hank
==========

[GPSL] fill rates and Helium / Hydrogen Regulator

Helium / Hydrogen Regulator

There is a very simple and cost effective solution to converting to
H2 from He or changing between the two gases as required.

McMaster-Carr is your friend and with the following two parts and
some teflon tape you are in business for less than $10.

Part# 79215A666
Regulator Fitting Female Thread Inlet Nut, Cga #350, 0.950" Length
In stock at $3.47 Each

Part# 79215A667
Regulator Fitting Inlet Nipple, 1/4" NPT Male, Cga #350, 2.5" Length
In stock at $3.90 Each

And if you had a H2 regulator like I did they sell parts to let you
convert it to He which has worked just great for me.

Hope to see you all at GPSL.

Nick Stich
K0NMS

RE Helium / Hydrogen Regulator
Posted by: "Nicholas Stich" NStich@... nstich48

Nicholas has it right: swap out the CGA 580 inert gas
nipple (and nut) for a CGA 350 flammable gas nipple
and nut. His McMaster-Carr reference is great, and
any welding shop worth the name will have these in
stock.

I used to work at a place that had over a dozen
different compressed gasses and we would swap CGA
nipples all the time. The whole point of 'the one
size fits only one' method is to prevent someone from

feeding an oxidizer into a flammable gas system, or an inert gas into a breathing air system. There is no reason to get a whole new regulator for a different gas (with the exception of Oxygen, which requires a properly cleaned regulator). Just make sure to be careful to avoid gas confusion.

The best way to make the swap is to grip to regulator body in a vise, then use a 6 point box end 11/16" wrench or deep socket to unscrew the nipple. Do not use an open ended wrench, DO NOT use an adjustable wrench, and heaven help us if you'd consider doing this with vise-grips or pliars. A normal 12-point wrench or socket is the only acceptable alternative. Unchuck the regulator body, and be sure to clean the teflon tape residue from the reg high pressure inlet before screwing in your new nipple (wrapped with teflon tape). Use of the less appropriate tools will significantly degrade the CGA nipple in question.

Personally, though, I take advice from the Navy Ballooning manual, and do not use a regulator. With cautious opening of the gas valve, the initial flow is modest. After the gas path is established (plastic balloon fill tube verified to be flowing without constriction) , we accelerate things a lot. On the ES-OS SEVEN flight (152 lb payload) we dumped a T-bottle (291 st cubic feet) every 30-40 seconds. As it turned out, a slower rate would have failed the mission as ten minutes after launch, a wind gust that certainly would have failed the balloon came out of no where. I was really glad we had filled fast and launched when we did.

- Mark Caviezel, ng0x

8200. Re: [GPSL] Helium Tank Threads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-27 01:43:05 UTC
From: Mark Conner
Topic: 8197 Message: 8200

If you search the archives for 'CGA' you should find it, was about two years ago.

On Aug 26, 2010 6:45 PM, "Pete Lilja" <plilja@...> wrote:

Recently I had asked about regulators for helium tanks and it was suggested I purchase a balloon filler from an eBay seller. I did and it arrived today. The regulator / filler has a shaft with external threads and I seem to remember that the helium tank's valve also has external threads. Is my memory wrong or do I need to get a nut (union) for my regulator / filler?

I also remember that someone posted here (or on some Yahoo group) a McMaster Carr part number for a fitting that will fit on a hydrogen tank and allow the use of a helium-type regulator. I can't find it in a search of the groups' messages. Can anyone help with that?

Pete
KC0GPB

8201. Re: [GPSL] Re: Helium Tank Threads

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-27 03:18:04 UTC
From: Pete Lilja
Topic: 8197 Message: 8201

Thanks, all,

This is exactly the information I was looking for.

Pete
KC0GPB

On Thu, Aug 26, 2010 at 8:42 PM, n1ltv <n1ltv@...> wrote:

>
>
> Both messages below reprinted in their entirety from
> June 2007 GPSL.
>
> Hank
> ==
>
> [GPSL] fill rates and Helium / Hydrogen Regulator
> --
>
> Helium / Hydrogen Regulator
>
> There is a very simple and cost effective solution to converting to
> H2 from He or changing between the two gases as required.
>
> McMaster-Carr is your friend and with the following two parts and
> some teflon tape you are in business for less than $10.
>
> Part# 79215A666
> Regulator Fitting Female Thread Inlet Nut, Cga #350, 0.950" Length
> In stock at $3.47 Each
>
> Part# 79215A667
> Regulator Fitting Inlet Nipple, 1/4" NPT Male, Cga #350, 2.5" Length
> In stock at $3.90 Each
>
> And if you had a H2 regulator like I did they sell parts to let you
> convert it to He which has worked just great for me.
>
> Hope to see you all at GPSL.
>
> Nick Stich
> K0NMS
>
> --
>

> RE Helium / Hydrogen Regulator
> Posted by: "Nicholas Stich" NStich@... <NStich%40aol.com> nstich48
>
> Nicholas has it right: swap out the CGA 580 inert gas
> nipple (and nut) for a CGA 350 flammable gas nipple
> and nut. His McMaster-Carr reference is great, and
> any welding shop worth the name will have these in
> stock.
>
> I used to work at a place that had over a dozen
> different compressed gasses and we would swap CGA
> nipples all the time. The whole point of 'the one
> size fits only one' method is to prevent someone from
> feeding an oxidizer into a flammable gas system, or an
> inert gas into a breathing air system. There is no
> reason to get a whole new regulator for a different
> gas (with the exception of Oxygen, which requires a
> properly cleaned regulator). Just make sure to be
> careful to avoid gas confusion.
>
> The best way to make the swap is to grip to regulator
> body in a vise, then use a 6 point box end 11/16"
> wrench or deep socket to unscrew the nipple. Do not
> use an open ended wrench, DO NOT use an adjustable
> wrench, and heaven help us if you'd consider doing
> this with vise-grips or pliars. A normal 12-point
> wrench or socket is the only acceptable alternative.
> Unchuck the regulator body, and be sure to clean the
> teflon tape residue from the reg high pressure inlet
> before screwing in your new nipple (wrapped with
> teflon tape). Use of the less appropriate tools will
> significantly degrade the CGA nipple in question.
>
> Personally, though, I take advice from the Navy
> Ballooning manual, and do not use a regulator. With
> cautious opening of the gas valve, the initial flow is
> modest. After the gas path is established (plastic
> balloon fill tube verified to be flowing without
> constriction) , we accelerate things a lot. On the
> ES-OS SEVEN flight (152 lb payload) we dumped a
> T-bottle (291 st cubic feet) every 30-40 seconds. As
> it turned out, a slower rate would have failed the
> mission as ten minutes after launch, a wind gust that
> certainly would have failed the balloon came out of no
> where. I was really glad we had filled fast and
> launched when we did.
>
> - Mark Caviezel, ng0x
>
>

>

8202. RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:20:20 UTC
From: Marty Griffin
Topic: 8202 Message: 8202

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

California Near Space Project - High Altitude Attempt (K6RPT-14)

California Near Space Project (CNSP) is preparing to launch a high altitude balloon into the stratosphere on Monday August 30, 2010 at 5:00 a.m.

The launch will take place at 4954 Almaden Expressway - San Jose, CA 95118 (37.25945 -121.87479)

The weather balloon will be filled with a 137 cubic feet of helium to a diameter of 6.4 feet and will ascend around 730 feet per minute. When the balloon reaches its maximum altitude it will expand to a diameter of 42 feet and then burst.

<http://www.CaliforniaNearSpaceProject.com>

Watch the track on both UI-View and on a 3D Topo Map display at:

<http://wa8lmf.net/LiveTrack>

--

Stephen H. Smith wa8lmf (at) aol.com
EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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Home Page: http://wa8lmf.net

===== Vista& Win7 Install Issues for UI-View and Precision Mapping =====
http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7

*** HF APRS over PSK63 ***
http://wa8lmf.net/APRS_PSK63/index.htm

"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

8203. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:26:02 UTC
From: Marty Griffin
Topic: 8202 Message: 8203

121,147 ft!

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

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Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

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"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

8204. Re: [GPSL] RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:29:55 UTC
From: Mark Conner
Topic: 8202 Message: 8204

http://aprs.fi/?c=raw&call=K6RPT-14

What's interesting is that the ascent rate has really dropped off in the
last several minutes, to less than 150 ft/min. Suppose it might float?

73 de Mark N9XTN

On Mon, Aug 30, 2010 at 10:26, Marty Griffin <mgriffin@...>wrote:

> 121,147 ft!
>
> -----Original Message-----
> From: Marty Griffin [mailto:mgriffin@...]
> Sent: Monday, August 30, 2010 9:20 AM
> To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T
> Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com;
> EOSS@yahoogroups.com
> Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS
> Balloon
> Launch Underway!
>
> For wider coverage: at 119,279
>
>
> -----Original Message-----
> From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
> Sent: Monday, August 30, 2010 8:16 AM
> To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
> Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch
> Underway!
>
> -------- Original Message --------
>
> Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
> Date: Mon, 30 Aug 2010 05:17:20 -0700
> From: Stephen H. Smith<wa8lmf@...>
> Reply-To: ui-view@yahoogroups.com
> To: undisclosed-recipients:;
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>
> California Near Space Project - High Altitude Attempt (K6RPT-14)
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>
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> diameter of 6.4 feet and will ascend around 730 feet per minute. When
> the balloon reaches its maximum altitude it will expand to a diameter of
> 42 feet and then burst.
>
> <http://www.CaliforniaNearSpaceProject.com>
>
> Watch the track on both UI-View and on a 3D Topo Map display at:
>
> <http://wa8lmf.net/LiveTrack>
>
> --
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>
> Stephen H. Smith wa8lmf (at) aol.com
> EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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> http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7
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> http://wa8lmf.net/DigiPaths
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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8205. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:30:23 UTC
From: Marty Griffin
Topic: 8202 Message: 8205

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 121,423 ft.

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

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--

Stephen H. Smith wa8lmf (at) aol.com
EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

8206. Re: [GPSL] RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:33:27 UTC
From: Joe
Topic: 8202 Message: 8206
Attachments: 1 described; binary payloads are missing from this source WARC

It's like really slowed down!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/30/2010 10:26 AM, Marty Griffin wrote:
> 121,147 ft!
>
> -----Original Message-----
> From: Marty Griffin [mailto:mgriffin@...]
> Sent: Monday, August 30, 2010 9:20 AM
> To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T
> Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com;
> EOSS@yahoogroups.com
> Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon
> Launch Underway!
>
> For wider coverage: at 119,279
>
>
> -----Original Message-----
> From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
> Sent: Monday, August 30, 2010 8:16 AM
> To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
> Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch
> Underway!
>
> -------- Original Message --------
>
> Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
> Date: Mon, 30 Aug 2010 05:17:20 -0700
> From: Stephen H. Smith<wa8lmf@...>
> Reply-To: ui-view@yahoogroups.com
> To: undisclosed-recipients:;
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>
> California Near Space Project - High Altitude Attempt (K6RPT-14)
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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8207. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:36:59 UTC
From: Marty Griffin
Topic: 8202 Message: 8207

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 122,020 ft.

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

8208. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:48:45 UTC
From: Marty Griffin
Topic: 8202 Message: 8208

I had it at 122,466. Magnificent effort!

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:37 AM
To: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com
Subject: RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 122,020 ft.

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From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
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Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

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Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

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Home Page: http://wa8lmf.net

===== Vista& Win7 Install Issues for UI-View and Precision Mapping =====
http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7

*** HF APRS over PSK63 ***
http://wa8lmf.net/APRS_PSK63/index.htm

"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

8209. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:49:49 UTC
From: Marty Griffin
Topic: 8202 Message: 8209

I appears reports of its demise are greatly exaggerated: 122,472

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:37 AM
To: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com
Subject: RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 122,020 ft.

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

California Near Space Project - High Altitude Attempt (K6RPT-14)

California Near Space Project (CNSP) is preparing to launch a high altitude balloon into the stratosphere on Monday August 30, 2010 at 5:00

a.m.

The launch will take place at 4954 Almaden Expressway - San Jose, CA 95118 (37.25945 -121.87479)

The weather balloon will be filled with a 137 cubic feet of helium to a diameter of 6.4 feet and will ascend around 730 feet per minute. When the balloon reaches its maximum altitude it will expand to a diameter of 42 feet and then burst.

<http://www.CaliforniaNearSpaceProject.com>

Watch the track on both UI-View and on a 3D Topo Map display at:

<http://wa8lmf.net/LiveTrack>

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Stephen H. Smith wa8lmf (at) aol.com
EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7

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http://wa8lmf.net/APRS_PSK63/index.htm

"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

8210. Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:53:39 UTC
From: Joe
Topic: 8202 Message: 8210
Attachments: 1 described; binary payloads are missing from this source WARC

122528
Going for a swim?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/30/2010 10:49 AM, Marty Griffin wrote:
> I appears reports of its demise are greatly exaggerated: 122,472
>
> -----Original Message-----
> From: Marty Griffin [mailto:mgriffin@...]
> Sent: Monday, August 30, 2010 9:37 AM
> To: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S
> Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com;
> GPSL@yahoogroups.com
> Subject: RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS
> Balloon Launch Underway!
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> attempt a high altitude record held by The University of Maryland of 128,379
> feet.
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> Currently at 122,020 ft.
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> From: Marty Griffin [mailto:mgriffin@...]
> Sent: Monday, August 30, 2010 9:20 AM
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> Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com;
> EOSS@yahoogroups.com
> Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon
> Launch Underway!
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> For wider coverage: at 119,279
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> From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
> Sent: Monday, August 30, 2010 8:16 AM
> To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
> Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch
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> -------- Original Message --------
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> Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
> Date: Mon, 30 Aug 2010 05:17:20 -0700
> From: Stephen H. Smith<wa8lmf@...>
> Reply-To: ui-view@yahoogroups.com
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> Yahoo! Groups Links
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8211. Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 15:59:31 UTC
From: Joe
Topic: 8202 Message: 8211
Attachments: 1 described; binary payloads are missing from this source WARC

POP! 122649 Higghest i saw.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/30/2010 10:49 AM, Marty Griffin wrote:
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> From: Marty Griffin [mailto:mgriffin@...]
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> To: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S
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> GPSL@yahoogroups.com
> Subject: RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS
> Balloon Launch Underway!
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> attempt a high altitude record held by The University of Maryland of 128,379
> feet.
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> Currently at 122,020 ft.
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> Sent: Monday, August 30, 2010 9:20 AM
> To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T
> Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com;
> EOSS@yahoogroups.com
> Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon
> Launch Underway!
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> For wider coverage: at 119,279
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> -----Original Message-----
> From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
> Sent: Monday, August 30, 2010 8:16 AM
> To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
> Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch

> Underway!
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> -------- Original Message --------
>
> Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
> Date: Mon, 30 Aug 2010 05:17:20 -0700
> From: Stephen H. Smith<wa8lmf@...>
> Reply-To: ui-view@yahoogroups.com
> To: undisclosed-recipients:;
>
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>
> California Near Space Project - High Altitude Attempt (K6RPT-14)
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> <http://www.CaliforniaNearSpaceProject.com>
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> Stephen H. Smith wa8lmf (at) aol.com
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> ===== Vista& Win7 Install Issues for UI-View and Precision Mapping =====
> http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7
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> http://wa8lmf.net/APRS_PSK63/index.htm
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> http://wa8lmf.net/DigiPaths
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> [Non-text portions of this message have been removed]
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8212. RE: [EOSS_Trackers] Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 16:01:39 UTC
From: Marty Griffin
Topic: 8212 Message: 8212

Last I had was 122,564 15:54

From: Mike Pappas [mailto:advanceddigital@...]
Sent: Monday, August 30, 2010 10:00 AM
To: Marty Griffin
Cc: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com
Subject: [EOSS_Trackers] Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Burst..

Mike Pappas

advanceddigital@...

On Aug 30, 2010, at 9:49 AM, Marty Griffin wrote:

I appears reports of its demise are greatly exaggerated: 122,472

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...
<mailto:mgriffin%40centosystems.com>]
Sent: Monday, August 30, 2010 9:37 AM
To: EOSS@yahoogroups.com <mailto:EOSS%40yahoogroups.com> ; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com <mailto:EOSS_Trackers%40yahoogroups.com> ; GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
Subject: RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 122,020 ft.

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...
<mailto:mgriffin%40centosystems.com>]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com
<mailto:EOSS_Trackers%40yahoogroups.com> ; GPSL@yahoogroups.com
<mailto:GPSL%40yahoogroups.com> ;

EOSS@yahoogroups.com <mailto:EOSS%40yahoogroups.com>
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...
<mailto:Russell.B.Chadwick%40noaa.gov>]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@... <mailto:wa8lmf%40aol.com> >
Reply-To: ui-view@yahoogroups.com <mailto:ui-view%40yahoogroups.com>
To: undisclosed-recipients:;

California Near Space Project - High Altitude Attempt (K6RPT-14)

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Stephen H. Smith wa8lmf (at) aol.com
EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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http://wa8lmf.net/DigiPaths

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Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

8213. RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 16:06:26 UTC
From: Marty Griffin
Topic: 8202 Message: 8213

Hello Ron,

On behalf of Edge of Space Sciences (OESS), congratulations on your magnificent effort this morning. I am sure your flight team will be assured this flight will be ensconced in the record books for a long time. Thanks for the thrill!

- Marty Griffin, WA0GEH, EOSS

From: Mike Pappas [mailto:advanceddigital@...]
Sent: Monday, August 30, 2010 10:00 AM
To: Marty Griffin
Cc: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com
Subject: Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Burst..

Mike Pappas

advanceddigital@...

On Aug 30, 2010, at 9:49 AM, Marty Griffin wrote:

I appears reports of its demise are greatly exaggerated: 122,472

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To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T
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Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon
Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
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To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch
Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@... <mailto:wa8lmf%40aol.com> >
Reply-To: ui-view@yahoogroups.com <mailto:ui-view%40yahoogroups.com>
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8214. RE: [GPSL] RE: [EOSS_Trackers] Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 19:14:19 UTC
From: Steve
Topic: 8212 Message: 8214

I got 122,676

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Marty Griffin
Sent: 30 August 2010 17:02
To: EOSS_Trackers@yahoogroups.com
Cc: EOSS@yahoogroups.com; 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; GPSL@yahoogroups.com
Subject: [GPSL] RE: [EOSS_Trackers] Re: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

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The weather balloon will be filled with a 137 cubic feet of helium to a diameter of 6.4 feet and will ascend around 730 feet per minute. When the balloon reaches its maximum altitude it will expand to a diameter of 42 feet and then burst.

<http://www.CaliforniaNearSpaceProject.com
<http://www.CaliforniaNearSpaceProject.com/> >

Watch the track on both UI-View and on a 3D Topo Map display at:

<http://wa8lmf.net/LiveTrack>

--

Stephen H. Smith wa8lmf (at) aol.com
EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
Skype: WA8LMF
Home Page: http://wa8lmf.net <http://wa8lmf.net/>

===== Vista& Win7 Install Issues for UI-View and Precision Mapping =====
http://wa8lmf.net/aprs/UIview_Notes.htm#VistaWin7

*** HF APRS over PSK63 ***
http://wa8lmf.net/APRS_PSK63/index.htm

"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

8215. Re: [GPSL] RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 21:10:03 UTC
From: Mark Conner
Topic: 8202 Message: 8215

It looks like the chase crew has left the site (N3CKF-9 and KO6YQ), but the payload is still beaconing from where it landed. It's in a forested area, so maybe it's way up in a tree.

73 de Mark N9XTN

On Mon, Aug 30, 2010 at 10:30, Marty Griffin <mgriffin@...>wrote:

> attempt a high altitude record held by The University of Maryland of
> 128,379
> feet.
>
> Currently at 121,423 ft.
>
> -----Original Message-----
> From: Marty Griffin [mailto:mgriffin@...]
> Sent: Monday, August 30, 2010 9:20 AM
> To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T
> Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com;
> EOSS@yahoogroups.com
> Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS
> Balloon
> Launch Underway!
>
> For wider coverage: at 119,279
>
>
> -----Original Message-----
> From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
> Sent: Monday, August 30, 2010 8:16 AM
> To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders
> Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch
> Underway!
>
> -------- Original Message --------
>
> Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
> Date: Mon, 30 Aug 2010 05:17:20 -0700
> From: Stephen H. Smith<wa8lmf@...>
> Reply-To: ui-view@yahoogroups.com
> To: undisclosed-recipients:;
>
>
>

>
>
> California Near Space Project - High Altitude Attempt (K6RPT-14)
>
> California Near Space Project (CNSP) is preparing to launch a high
> altitude balloon into the stratosphere on Monday August 30, 2010 at 5:00
> a.m.
>
> The launch will take place at 4954 Almaden Expressway - San Jose, CA
> 95118 (37.25945 -121.87479)
>
> The weather balloon will be filled with a 137 cubic feet of helium to a
> diameter of 6.4 feet and will ascend around 730 feet per minute. When
> the balloon reaches its maximum altitude it will expand to a diameter of
> 42 feet and then burst.
>
> <http://www.CaliforniaNearSpaceProject.com>
>
> Watch the track on both UI-View and on a 3D Topo Map display at:
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> --
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> Stephen H. Smith wa8lmf (at) aol.com
> EchoLink Node: WA8LMF or 14400 [Think bottom of the 2M band]
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> ===== Vista& Win7 Install Issues for UI-View and Precision Mapping =====
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links

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8216. RE: [GPSL] RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-30 22:07:29 UTC
From: Steve
Topic: 8202 Message: 8216

News from a local KE6AFE is that terrain is not good and Redwood in the area, the GPS is not locking properly and they are having trouble finding. They have packed up for the day

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: 30 August 2010 22:10
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] RE: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

It looks like the chase crew has left the site (N3CKF-9 and KO6YQ), but the payload is still beaconing from where it landed. It's in a forested area, so maybe it's way up in a tree.

73 de Mark N9XTN

On Mon, Aug 30, 2010 at 10:30, Marty Griffin <mgriffin@...> wrote:

attempt a high altitude record held by The University of Maryland of 128,379 feet.

Currently at 121,423 ft.

-----Original Message-----
From: Marty Griffin [mailto:mgriffin@...]
Sent: Monday, August 30, 2010 9:20 AM
To: 'Russ Chadwick'; 'EOSS Mgmt Reflector'; 'Randall S Collander'; 'Brian T Sanders'; EOSS_Trackers@yahoogroups.com; GPSL@yahoogroups.com; EOSS@yahoogroups.com
Subject: [EOSS] RE: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

For wider coverage: at 119,279

-----Original Message-----
From: Russ Chadwick [mailto:Russell.B.Chadwick@...]
Sent: Monday, August 30, 2010 8:16 AM
To: 'EOSS Mgmt Reflector'; Randall S Collander; Brian T Sanders

Subject: [EOSS_Private] Fwd: Fwd: [ui-view] K6RPT-14 APRS Balloon Launch Underway!

-------- Original Message --------

Subject: [ui-view] K6RPT-14 APRS Balloon Launch Underway!
Date: Mon, 30 Aug 2010 05:17:20 -0700
From: Stephen H. Smith<wa8lmf@...>
Reply-To: ui-view@yahoogroups.com
To: undisclosed-recipients:;

California Near Space Project - High Altitude Attempt (K6RPT-14)

California Near Space Project (CNSP) is preparing to launch a high altitude balloon into the stratosphere on Monday August 30, 2010 at 5:00 a.m.

The launch will take place at 4954 Almaden Expressway - San Jose, CA 95118 (37.25945 -121.87479)

The weather balloon will be filled with a 137 cubic feet of helium to a diameter of 6.4 feet and will ascend around 730 feet per minute. When the balloon reaches its maximum altitude it will expand to a diameter of 42 feet and then burst.

<http://www.CaliforniaNearSpaceProject.com>

Watch the track on both UI-View and on a 3D Topo Map display at:

<http://wa8lmf.net/LiveTrack>

--

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"APRS 101" Explanation of APRS Path Selection& Digipeating
http://wa8lmf.net/DigiPaths

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

8217. K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 00:07:32 UTC
From: k6rpt
Topic: 8217 Message: 8217

The K6RPT-14 flight went well today reaching 122,649 feet. After the flight I had to go back to work.

CNSP did not plan to recover this payload. Another group's chase and recovery team, with one team member in an airplane went after it anyway. They said the terrain was difficult for recovery.

I was surprised how slow it was ascending at the end of the flight? I thought we had a floater at 122k.

-Ron K6RPT

8218. Re: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 00:50:42 UTC
From: BASE
Topic: 8217 Message: 8218

Ron,
Did you transmit any temperature data from your system?
The density of the stratosphere at 37 km ASL is very small, making the density difference with the helium smaller than what might be assumed via LiftWin.
Howard

--- On Mon, 8/30/10, k6rpt <Ron@...> wrote:

From: k6rpt <Ron@...>
Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
To: GPSL@yahoogroups.com
Date: Monday, August 30, 2010, 8:07 PM

The K6RPT-14 flight went well today reaching 122,649 feet. After the flight I had to go back to work.

CNSP did not plan to recover this payload. Another group's chase and recovery team, with one team member in an airplane went after it anyway. They said the terrain was difficult for recovery.

I was surprised how slow it was ascending at the end of the flight? I thought we had a floater at 122k.

-Ron K6RPT

8219. Re: K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 14:47:31 UTC
From: k6rpt
Topic: 8217 Message: 8219

I didn't do any temperature logging my payload was already about 5 oz too heavy already.

Thanks Howard, Understanding the density of the stratosphere at 37 km ASL and helium will help in my next attempt.

-Ron K6RPT

--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:
>
> Ron,
> Did you transmit any temperature data from your system? Â
> The density of the stratosphere at 37 km ASL is very small, making the density difference with the helium smaller than what might be assumed via LiftWin. Â
> Howard
>
> --- On Mon, 8/30/10, k6rpt <Ron@...> wrote:
>
> From: k6rpt <Ron@...>
> Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
> To: GPSL@yahoogroups.com
> Date: Monday, August 30, 2010, 8:07 PM
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> CNSP did not plan to recover this payload. Another group's chase and recovery team, with one team member in an airplane went after it anyway. They said the terrain was difficult for recovery.
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>
> I was surprised how slow it was ascending at the end of the flight? I thought we had a floater at 122k.
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>
> -Ron K6RPT
>

8220. Does anyone have any information on the balloon launch of Project Electric Eye?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 18:40:02 UTC
From: Mike Bogard
Topic: 8220 Message: 8220

I can not find out any information of the flight tomorrow of the Project Electric Eye. If anyone has any information on the flight or link to where the information is I would be interested in seeing it. Thanks Mike

8221. CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 18:56:06 UTC
From: BASE
Topic: 8221 Message: 8221
Attachments: 1 described; binary payloads are missing from this source WARC

I plotted the ascent profile for Ron's flight (see attached .jpg) from the aprs.fi raw data packets. Something very interesting started to happen after about 2 hours and 15 minutes.

Any explanations?

Howard

--- On Tue, 8/31/10, k6rpt <Ron@...> wrote:

From: k6rpt <Ron@MySystem.com>
Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
To: GPSL@yahoogroups.com
Date: Tuesday, August 31, 2010, 10:47 AM

I didn't do any temperature logging my payload was already about 5 oz too heavy already.

Thanks Howard, Understanding the density of the stratosphere at 37 km ASL and helium will help in my next attempt.

-Ron K6RPT

--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:

>

> Ron,

> Did you transmit any temperature data from your system? Â

> The density of the stratosphere at 37 km ASL is very small, making the density difference with the helium smaller than what might be assumed via LiftWin. Â

> Howard

>

> --- On Mon, 8/30/10, k6rpt <Ron@...> wrote:

>

> From: k6rpt <Ron@...>

> Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.

> To: GPSL@yahoogroups.com

> Date: Monday, August 30, 2010, 8:07 PM

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> CNSP did not plan to recover this payload. Another group's chase and recovery team, with one team member in an airplane went after it anyway. They said the terrain was difficult for recovery.

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> I was surprised how slow it was ascending at the end of the flight? I thought we had a floater at 122k.

>

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>

> -Ron K6RPT

>

8222. Re: [GPSL] Does anyone have any information on the balloon launch of Project Electric Eye?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 19:32:23 UTC
From: BASE
Topic: 8220 Message: 8222

The flight information for Electric Eye 8 can be found on the following link:

http://www.arhab.org/ARHABlaunchannouncements.html

Launch is scheduled for 8:45 am Eastern Daylight Time from Riverton Parke Junior-Senior High School in far western Indiana (Lat/Lon: 39.698,-87.32)

Call sign: KC9QOV-3 on 144.39 MHz APRS using a 1500 gram balloon with hydrogen.

I could not reach the flight list from the www.arhab.org home page, but had to enter the URL directly.

Howard

--- On Tue, 8/31/10, Mike Bogard <kd0fw@...> wrote:

From: Mike Bogard <kd0fw@...>
Subject: [GPSL] Does anyone have any information on the balloon launch of Project Electric Eye?
To: GPSL@yahoogroups.com
Date: Tuesday, August 31, 2010, 2:40 PM

I can not find out any information of the flight
tomorrow of the Project Electric Eye. If anyone has any information on the
flight or link to where the information is I would be interested in seeing it.
Thanks Mike

8223. Re: [GPSL] Does anyone have any information on the balloon launch of Project Electric Eye?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 19:59:41 UTC
From: Mike Bogard
Topic: 8220 Message: 8223

Thanks for the information but I don't seem to be able to see what the payload is? I am trying to find out if it is live video and if so are they transmitting it on a ATV frequency or just what are they doing. There is just a lot of missing information on the ARHAB announcement site from the Electric Eye Group. Thanks Mike

8224. Re: [GPSL] Does anyone have any information on the balloon launch of Project Electric Eye?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 20:22:47 UTC
From: Keith Kaiser
Topic: 8220 Message: 8224

Mike,

Everything the Electric Eye Group sent me regarding their flight is posted. Including links to their own site and a contact. I suggest you contact them directly.

On Aug 31, 2010, at 2:59 PM, Mike Bogard wrote:

> □
>
> Thanks for the information but I don't seem to be able to see what the payload is? I am trying to find out if it is live video and if so are they transmitting it on a ATV frequency or just what are they doing. There is just a lot of missing information on the ARHAB announcement site from the Electric Eye Group. Thanks Mike
>
>

8225. New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 20:46:36 UTC
From: GPSL@yahoogroups.com
Topic: 1529 Message: 8225

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the GPSL
group.

File : /cnsp08302010.JPG
Uploaded by : basedepauw <basedepauw@...>
Description : Ascent Profile for CNSP (K6RPT-14) flight 08/30/2010

You can access this file at the URL:
http://groups.yahoo.com/group/GPSL/files/cnsp08302010.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

basedepauw <basedepauw@...>

8226. Missing information on ARHAB launch page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 20:47:34 UTC
From: n1ltv
Topic: 8220 Message: 8226

> Everything the Electric Eye Group sent me regarding their flight is
> posted.

Keith,

You have several events on the launch page, including Electric Eye, where no town is listed, even some where no state is listed.

Please try to **always** list at least the state without someone having to guess it from looking up a webpage link. Sometimes the launch state is different than the home state location, so it should be spelled out.

A special building name, an airport name, or a school name is a royal pain in the butt to decode for us civilians out here looking for the critical information. It's not acceptable for a good launch announcement webpage to just have those kinds of descriptions (the three above) that need much further decoding.

On the HABLIC website, the launch info was always fitted into a pretty standard (with custom addons where necessary) format, and one of those items was a *specific, complete* launch site as town, state, and if a very small town, range and azimuth to a bigger town or city in the state. If those descriptors were not provided by the launch teams, I as HABLIC webmaster, looked them up so others would not have to.

In the case of range and distance to a well known town or city, I always had to do it.

Hank

8227. Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 20:54:25 UTC
From: n1ltv
Topic: 8221 Message: 8227

> I plotted the ascent profile for Ron's flight (see attached .jpg)
> from the aprs.fi raw data packets.

Now that it's been uploaded I can finally see it. Thanks Howard.

> Something very interesting started to happen after about 2 hours
> and 15 minutes.

> Any explanations?

A "pinhole" leak or other small leak, perhaps at the neck
foldover point. Developing logically late in the flight
from the extreme envelope expansion.

Hank

8228. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 21:05:11 UTC
From: Keith Kaiser
Topic: 8221 Message: 8228

Hank,

You know what, your criticism of everything is really getting the rest of us down.

If you don't like things the way they are why don't you do it yourself? Go start your own site, lets see how many others actually join you.

I post what I'm sent, I don't make things up, I do embellish by adding links to places I think will help, but based on what I'm given. I'm not about to start making up data just to make you happy. If I'm sent specific location information, I post it, I post everything I'm sent, I don't edit. Now if you would care to write a geocoding program in JavaScript that will go to one of many sites around the web and return the City and State of the launch coordinates, I'd be happy to include that in my "embellishment".

Try contributing to things Hank not detracting. I for one am very tired of it.

On Aug 31, 2010, at 1:56 PM, BASE wrote:

> [Attachment(s) from BASE included below]
> I plotted the ascent profile for Ron's flight (see attached .jpg) from the aprs.fi raw data packets. Something very interesting started to happen after about 2 hours and 15 minutes.
>
> Any explanations?
>
> Howard
>
> --- On Tue, 8/31/10, k6rpt <Ron@...> wrote:
>
> From: k6rpt <Ron@...>
> Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
> To: GPSL@yahoogroups.com
> Date: Tuesday, August 31, 2010, 10:47 AM
>
>
> I didn't do any temperature logging my payload was already about 5 oz too heavy already.
>
> Thanks Howard, Understanding the density of the stratosphere at 37 km ASL and helium will help in my next attempt.
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:
> >
> > Ron,
> > Did you transmit any temperature data from your system? Â

> > The density of the stratosphere at 37 km ASL is very small, making the density difference with the helium smaller than what might be assumed via LiftWin. Â
> > Howard
> >
> > --- On Mon, 8/30/10, k6rpt <Ron@...> wrote:
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> > From: k6rpt <Ron@...>
> > Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
> > To: GPSL@yahoogroups.com
> > Date: Monday, August 30, 2010, 8:07 PM
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> >
> > I was surprised how slow it was ascending at the end of the flight? I thought we had a floater at 122k.
> >

> >
> >
> > -Ron K6RPT
> >
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8229. Re: [GPSL] Does anyone have any information on the balloon launch of Project Electric Eye?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 21:08:26 UTC
From: Brenden Geary
Topic: 8220 Message: 8229

Any missing info can be found by calling Trey at 812-240-2477

On Aug 31, 2010, at 1:22 PM, Keith Kaiser <wa0tjt@...> wrote:

> Mike,
>
>
> Everything the Electric Eye Group sent me regarding their flight is posted. Including links to their own site and a contact. I suggest you contact them directly.
>
>
> On Aug 31, 2010, at 2:59 PM, Mike Bogard wrote:
>
>>
>> □
>>
>> Thanks for the information but I don't seem to be able to see what the payload is? I am trying to find out if it is live video and if so are they transmitting it on a ATV frequency or just what are they doing. There is just a lot of missing information on the ARHAB announcement site from the Electric Eye Group. Thanks Mike
>>
>
>

8230. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 21:12:56 UTC
From: Michael Willett
Topic: 8221 Message: 8230

Hi Howard,

I also noted the leveling off at around 121,000 feet. It got my attention too. Knowing that burst happened shortly after, I would say it had a pre-burst hole that slowed the ascent rate, but not enough to over come the continued ascent to critical pressure and obtaining burst. "Captain, she can't take any more" "Give me all you've got Scotty" then blamo... :)

The other possibility I thought of was an area of sinking air. Though air is thin up there, it still moves around, and I have encountered very large areas of sinking air when flying a plane, I can imagine those areas also exist at high altitudes.

However, my money is on the pin hole as it nearly matches the profile I expect from using the valve system and likely matches that of Bill Brown's pin-hole experiments.

--Michael
K5NOT

On 8/31/2010 1:56 PM, BASE wrote:
> [Attachment(s) <#TopText> from BASE included below]
>
> I plotted the ascent profile for Ron's flight (see attached .jpg) from
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> happen after about 2 hours and 15 minutes.
>
> Any explanations?
>
> Howard
>
> --- On *Tue, 8/31/10, k6rpt /<Ron@...>/* wrote:
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>
> From: k6rpt <Ron@...>
> Subject: [GPSL] Re: K6RPT-14 flight went well today reaching
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> To: GPSL@yahoogroups.com
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> Thanks Howard, Understanding the density of the stratosphere at 37
> km ASL and helium will help in my next attempt.

>
> -Ron K6RPT
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> --- In GPSL@yahoogroups.com
> </mc/compose?to=GPSL%40yahoogroups.com>, BASE <basedepauw@...> wrote:
> >
> > Ron,
> > Did you transmit any temperature data from your system? Â
> > The density of the stratosphere at 37 km ASL is very small,
> making the density difference with the helium smaller than what
> might be assumed via LiftWin. Â
> > Howard
> >
> > --- On Mon, 8/30/10, k6rpt <Ron@...> wrote:
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> > From: k6rpt <Ron@...>
> > Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649
> feet.
> > To: GPSL@yahoogroups.com </mc/compose?to=GPSL%40yahoogroups.com>
> > Date: Monday, August 30, 2010, 8:07 PM
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> it anyway. They said the terrain was difficult for recovery.
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> > I was surprised how slow it was ascending at the end of the
> flight? I thought we had a floater at 122k.
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> > -Ron K6RPT
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8231. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 21:30:47 UTC
From: Mark Conner
Topic: 8221 Message: 8231

This seems to happen more frequently than not for 3000g balloons, sub-1lb payloads, and flights to the 120 kft vicinity. Or maybe it's selective memory on my part. Does anyone recall a "normal" flight under these payload/balloon conditions, where there was not a substantial leveling off of the ascent rate before the burst altitude?

I find it a little hard to believe that we get pinholes this frequently.

73 de Mark N9XTN

On Tue, Aug 31, 2010 at 16:12, Michael Willett <mw@...> wrote:

>
>
> Hi Howard,
>
> I also noted the leveling off at around 121,000 feet. It got my attention
> too. Knowing that burst happened shortly after, I would say it had a
> pre-burst hole that slowed the ascent rate, but not enough to over come the
> continued ascent to critical pressure and obtaining burst. "Captain, she
> can't take any more" "Give me all you've got Scotty" then blamo... :)
>
> The other possibility I thought of was an area of sinking air. Though air
> is thin up there, it still moves around, and I have encountered very large
> areas of sinking air when flying a plane, I can imagine those areas also
> exist at high altitudes.
>
> However, my money is on the pin hole as it nearly matches the profile I
> expect from using the valve system and likely matches that of Bill Brown's
> pin-hole experiments.
>
> --Michael
> K5NOT
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> On 8/31/2010 1:56 PM, BASE wrote:
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> I plotted the ascent profile for Ron's flight (see attached .jpg) from
> the aprs.fi raw data packets. Something very interesting started to
> happen after about 2 hours and 15 minutes.
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> Any explanations?
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> Howard

>
> --- On *Tue, 8/31/10, k6rpt <Ron@...> <Ron@...>* wrote:
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> From: k6rpt <Ron@MySystem.com> <Ron@...>
> Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
> To: GPSL@yahoogroups.com
> Date: Tuesday, August 31, 2010, 10:47 AM
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>
>
> I didn't do any temperature logging my payload was already about 5 oz too
> heavy already.
>
> Thanks Howard, Understanding the density of the stratosphere at 37 km ASL
> and helium will help in my next attempt.
>
> -Ron K6RPT
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> --- In GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>,
> BASE <basedepauw@...> <basedepauw@...> wrote:
> >
> > Ron,
> > Did you transmit any temperature data from your system? Â
> > The density of the stratosphere at 37 km ASL is very small, making the
> density difference with the helium smaller than what might be assumed via
> LiftWin. Â
> > Howard
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> > --- On Mon, 8/30/10, k6rpt <Ron@...> <Ron@...> wrote:
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> > From: k6rpt <Ron@...> <Ron@...>
> > Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
> > To: GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>
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> > -Ron K6RPT
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8232. Re: Missing information on ARHAB launch page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 21:57:09 UTC
From: n1ltv
Topic: 8220 Message: 8232

> Try contributing to things Hank not detracting.

Riverton Parke Junior-Senior High School
Montezuma, Indiana
47862

Indian Hills Community College North Campus (Ottumwa Regional Airport)
Ottumwa, IA
52501

NSSTC
National Space Science and Technology Center, NASA, Huntsville, Alabama
35805

That's my contribution to the launch page for today. I will
continue to provide you with full location info if you will
use it.

As far as contributing to the ARHAB website, you've already
turned a deaf ear to my offer of technical editing and posting assistance (of a continuing nature) made to you on this very
list weeks ago.

What do you say to that? Will you accept that kind of help?

Hank

8233. Missing info on the Electri Eye Project.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 22:00:28 UTC
From: Mike Bogard
Topic: 8233 Message: 8233

Thanks to many emails as I will give Trey a call later! Thanks again all

8234. Re: Missing information on ARHAB launch page

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 22:04:57 UTC
From: n1ltv
Topic: 8220 Message: 8234

NSSTC

National Space Science and Technology Center

NASA and seven Alabama universities comprising
the Space Science and Technology Alliance

Huntsville, Alabama
35805

8235. Re: [GPSL] Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 23:15:45 UTC
From: Joe
Topic: 8221 Message: 8235
Attachments: 1 described; binary payloads are missing from this source WARC

Can anyone give me some exact spec's on this flight.

I know it was a 3000 balloon, but little more.

Like Gas used,

Total exact as possible amount of lift at the nozzle. NOT any other spec, But the total amount of lift, and then the exact payloads flight train lift too.

In other words then to be able to calculate the total amount of positive buoyant lift of the whole system.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/31/2010 3:54 PM, n1ltv wrote:
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> Now that it's been uploaded I can finally see it. Thanks Howard.
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>> Something very interesting started to happen after about 2 hours
>> and 15 minutes.
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>> Any explanations?
> A "pinhole" leak or other small leak, perhaps at the neck
> foldover point. Developing logically late in the flight
> from the extreme envelope expansion.
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> Hank
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8236. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-08-31 23:24:53 UTC
From: Joe
Topic: 8221 Message: 8236
Attachments: 1 described; binary payloads are missing from this source WARC

I'm thinking myself that with the minimal lift, and the extra rarefied atmosphere, I'm wondering if we had a close,, but not quite good enough Pressurization of the envelope. and the lift was reduced, but not canceled. The envelope wasn't strong enough to pressurize enough. To totally cancel the lift But it did reduce it.

What I'm thinking is at 120 K point was where the envelope has hit that cant stretch any more point, And now the pressure differential starts to rise. But i need accurate numbers to calculate these numbers to see what the actual pressure differential would have had to be to act like this.

Joe WB9SBD

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/31/2010 4:30 PM, Mark Conner wrote:
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> sub-1lb payloads, and flights to the 120 kft vicinity. Or maybe it's
> selective memory on my part. Does anyone recall a "normal" flight
> under these payload/balloon conditions, where there was not a
> substantial leveling off of the ascent rate before the burst altitude?
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> I find it a little hard to believe that we get pinholes this frequently.
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> 73 de Mark N9XTN
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> <mailto:mw@...>> wrote:
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> say it had a pre-burst hole that slowed the ascent rate, but not
> enough to over come the continued ascent to critical pressure and
> obtaining burst. "Captain, she can't take any more" "Give me all
> you've got Scotty" then blamo... :)
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> Though air is thin up there, it still moves around, and I have
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> can imagine those areas also exist at high altitudes.
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> However, my money is on the pin hole as it nearly matches the
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>> Thanks Howard, Understanding the density of the stratosphere
>> at 37 km ASL and helium will help in my next attempt.
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>> > -Ron K6RPT
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8237. Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 00:07:40 UTC
From: k6rpt
Topic: 8221 Message: 8237

Joe, this is what I used form LiftWin. I used a hanging scale (upside down) and the nozzle lift was 2.38 exactly.

3000g HE, Total Payload .75, Nozzle Lift 2.38, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Estimated Peak Altitude 133K

-Ron K6RPT

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> Can anyone give me some exact spec's on this flight.
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> Like Gas used,
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> Total exact as possible amount of lift at the nozzle. NOT any other
> spec, But the total amount of lift, and then the exact payloads flight
> train lift too.
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> In other words then to be able to calculate the total amount of positive
> buoyant lift of the whole system.
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> Joe WB9SBD
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> Idle Tyme
> Idle-Tyme.com
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8238. Re: [GPSL] Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 00:32:57 UTC
From: Jerry Gable
Topic: 8221 Message: 8238

The standard air pressure at 121,000 feet (37,000 meters) is 0.063 PSI. I would think at that point I would think that the slight increase in pressure caused by the balloon would have to be taken into account.

From: k6rpt <Ron@...>
To: GPSL@yahoogroups.com
Sent: Tue, August 31, 2010 5:07:40 PM
Subject: [GPSL] Re: CNSP (K6RPT-14) flight ascent profile

Joe, this is what I used form LiftWin. I used a hanging scale (upside down) and the nozzle lift was 2.38 exactly.

3000g HE, Total Payload .75, Nozzle Lift 2.38, Free Lift 1.63, Time to Burst 3.0, Ascent Speed 730, Estimated Peak Altitude 133K

-Ron K6RPT

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> spec, But the total amount of lift, and then the exact payloads flight
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8239. Re: [GPSL] Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 01:54:06 UTC
From: Joe
Topic: 8221 Message: 8239
Attachments: 1 described; binary payloads are missing from this source WARC

How close does the scale work "Up side Down"?

Just curious as to it's internal workings, if what it says the lift was
is really what it was.

And how to test it?

Maybe with a balance beam? make a balance beam with exactly the same
weight (Preferrably 2.38 pounds on both ends so it balances exactly,

The remove one weight and attach the scale as you did to the balloon and
confirm that it says you have the same for the lift.

Was te balloon inflated inside or outside? any breeezes etc. all
effect what the true amount of lift was.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 8/31/2010 7:07 PM, k6rpt wrote:
> Joe, this is what I used form LiftWin. I used a hanging scale (upside down) and the
nozzle lift was 2.38 exactly.
>
> 3000g HE, Total Payload .75, Nozzle Lift 2.38, Free Lift 1.63, Time to Burst 3.0, Ascent
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8240. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 02:15:55 UTC
From: Mark Conner
Topic: 8221 Message: 8240

I'm still not sure I buy the pressurization theory - I just can't see latex stretched that thin suddenly exhibiting a lot more strength. I don't believe we see this with, say, 1500g balloons at around 100 kft.

A pinhole, with a minimal pressure differential behind it, wouldn't seem to vent a lot of helium in an hour or two. I suppose one could do the math using a minimal but hopefully realistic pressure differential through a hole of various sizes and see just how long it would take, but we are probably talking several hundred to a couple thousand cubic feet at least.

I wonder if we have something like the Reynolds number transition that's observed at other altitudes with smaller balloons - maybe we get into a flow regime that introduces a *lot* more drag. Or maybe a change in the balloon shape (more oblate?) that causes the drag to change due to the balloon's manufacturing and different thicknesses of the latex at different points around the surface.

It would be interesting to collect the data for all 3000g balloon flights exceeding, say, 115 kft with light payloads and relatively low free lift to look for some commonality. I still remember chasing Pete Sias' January 2000 flight that went from Salina to Ohio, and use it all the time as an example of a "weird" flight.

73 de Mark N9XTN

On Tue, Aug 31, 2010 at 18:24, Joe <nss@...> wrote:

> I'm thinking myself that with the minimal lift, and the extra rarefied
> atmosphere, I'm wondering if we had a close,, but not quite good enough
> Pressurization of the envelope. and the lift was reduced, but not
> canceled. The envelope wasn't strong enough to pressurize enough. To
> totally cancel the lift But it did reduce it.
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> cant stretch any more point, And now the pressure differential starts to
> rise. But i need accurate numbers to calculate these numbers to see what
> the actual pressure differential would have had to be to act like this.
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8241. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 02:49:40 UTC
From: Mike Manes
Topic: 8221 Message: 8241

There isn't a whole mess of experience in ARHAB above 120K' - this is
the darker side of an already black art :=P. I kinda suspect a dive
off the Cliffs of Reynolds (per Nick N0LP) may have played a hand, although
I've never seen such a large Re-induced inflection.
73 de Mike W5VSI

On 8/31/2010 15:30, Mark Conner wrote:
>
>
> This seems to happen more frequently than not for 3000g balloons, sub-1lb
> payloads, and flights to the 120 kft vicinity. Or maybe it's selective memory
> on my part. Does anyone recall a "normal" flight under these payload/balloon
> conditions, where there was not a substantial leveling off of the ascent rate
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> On Tue, Aug 31, 2010 at 16:12, Michael Willett <mw@...
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> is thin up there, it still moves around, and I have encountered very large
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8242. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 03:46:52 UTC
From: Jerry Gable
Topic: 8221 Message: 8242

Somebody and I don't remember who presented at GPSL this year about the pressure increase in a balloon just before burst. I found some stuff on party balloons describing this effect but nothing on weather balloons.

A few ounces of extra pressure at lower altitudes is going to wash out in the noise but at 120K feet where the outside pressure is 0.06 PSI it could make a big difference.

From: Mark Conner <mconner1@...>
To: GPSL list <GPSL@yahoogroups.com>
Sent: Tue, August 31, 2010 7:15:55 PM
Subject: Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

I'm still not sure I buy the pressurization theory - I just can't see latex stretched that thin suddenly exhibiting a lot more strength. I don't believe we see this with, say, 1500g balloons at around 100 kft.

A pinhole, with a minimal pressure differential behind it, wouldn't seem to vent a lot of helium in an hour or two. I suppose one could do the math using a minimal but hopefully realistic pressure differential through a hole of various sizes and see just how long it would take, but we are probably talking several hundred to a couple thousand cubic feet at least.

I wonder if we have something like the Reynolds number transition that's observed at other altitudes with smaller balloons - maybe we get into a flow regime that introduces a *lot* more drag. Or maybe a change in the balloon shape (more oblate?) that causes the drag to change due to the balloon's manufacturing and different thicknesses of the latex at different points around the surface.

It would be interesting to collect the data for all 3000g balloon flights exceeding, say, 115 kft with light payloads and relatively low free lift to look for some commonality. I still remember chasing Pete Sias' January 2000 flight that went from Salina to Ohio, and use it all the time as an example of a "weird" flight.

73 de Mark N9XTN

On Tue, Aug 31, 2010 at 18:24, Joe <nss@...> wrote:

I'm thinking myself that with the minimal lift, and the extra rarefied atmosphere, I'm wondering if we had a close,, but not quite good enough Pressurization of the envelope. and the lift was reduced, but not canceled. The envelope wasn't strong enough to pressurize enough. To totally cancel the lift But it did reduce it.
>

>What I'm thinking is at 120 K point was where the envelope has hit that cant
>stretch any more point, And now the pressure differential starts to rise.
>But i need accurate numbers to calculate these numbers to see what the
>actual pressure differential would have had to be to act like this.
>

8243. Re: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 04:17:13 UTC
From: Mike Manes
Topic: 8217 Message: 8243

Huh? At a given temp and pressure, the density difference is still a firm
function of the difference in molecular weight over the fill gas mass,
independent of absolute pressure.
73 de Mike W5VSI

On 8/30/2010 18:50, BASE wrote:
>
>
> Ron,
>
> Did you transmit any temperature data from your system?
>
> The density of the stratosphere at 37 km ASL is very small, making the density
> difference with the helium smaller than what might be assumed via LiftWin.
>
> Howard
>
> --- On *Mon, 8/30/10, k6rpt /<Ron@...>/* wrote:
>
>
> From: k6rpt <Ron@...>
> Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
> To: GPSL@yahoogroups.com
> Date: Monday, August 30, 2010, 8:07 PM
>
> The K6RPT-14 flight went well today reaching 122,649 feet. After the
> flight I had to go back to work.
>
> CNSP did not plan to recover this payload. Another group's chase and
> recovery team, with one team member in an airplane went after it anyway.
> They said the terrain was difficult for recovery.
>
> I was surprised how slow it was ascending at the end of the flight? I
> thought we had a floater at 122k.
>
> -Ron K6RPT
>
>
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

8244. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 13:20:54 UTC
From: L. Paul Verhage
Topic: 8221 Message: 8244

There was a BOI flight back in 1999 that fit that profile.

I try to fly with 3 PPL. I susppose the sub-pound payloads need to look at
flight termination devices. That way you know you won't be up there when
the batteries die.

Paul

On Tue, Aug 31, 2010 at 4:30 PM, Mark Conner <mconner1@...> wrote:

>
>
> This seems to happen more frequently than not for 3000g balloons, sub-1lb
> payloads, and flights to the 120 kft vicinity. Or maybe it's selective
> memory on my part. Does anyone recall a "normal" flight under these
> payload/balloon conditions, where there was not a substantial leveling off
> of the ascent rate before the burst altitude?
>
> I find it a little hard to believe that we get pinholes this frequently.
>
> 73 de Mark N9XTN
>
>
> On Tue, Aug 31, 2010 at 16:12, Michael Willett <mw@...> wrote:
>
>>
>>
>> Hi Howard,
>>
>> I also noted the leveling off at around 121,000 feet. It got my attention
>> too. Knowing that burst happened shortly after, I would say it had a
>> pre-burst hole that slowed the ascent rate, but not enough to over come the
>> continued ascent to critical pressure and obtaining burst. "Captain, she
>> can't take any more" "Give me all you've got Scotty" then blamo... :)
>>
>> The other possibility I thought of was an area of sinking air. Though air
>> is thin up there, it still moves around, and I have encountered very large
>> areas of sinking air when flying a plane, I can imagine those areas also
>> exist at high altitudes.
>>
>> However, my money is on the pin hole as it nearly matches the profile I
>> expect from using the valve system and likely matches that of Bill Brown's
>> pin-hole experiments.
>>
>> --Michael
>> K5NOT

>>
>>
>> On 8/31/2010 1:56 PM, BASE wrote:
>>
>>
>>
>> I plotted the ascent profile for Ron's flight (see attached .jpg) from
>> the aprs.fi raw data packets. Something very interesting started to
>> happen after about 2 hours and 15 minutes.
>>
>> Any explanations?
>>
>> Howard
>>
>> --- On *Tue, 8/31/10, k6rpt <Ron@MySystem.com> <Ron@...>* wrote:
>>
>>
>> From: k6rpt <Ron@MySystem.com> <Ron@...>
>> Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
>> To: GPSL@yahoogroups.com
>> Date: Tuesday, August 31, 2010, 10:47 AM
>>
>>
>>
>> I didn't do any temperature logging my payload was already about 5 oz too
>> heavy already.
>>
>> Thanks Howard, Understanding the density of the stratosphere at 37 km ASL
>> and helium will help in my next attempt.
>>
>> -Ron K6RPT
>>
>> --- In GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>,
>> BASE <basedepauw@...> <basedepauw@...> wrote:
>> >
>> > Ron,
>> > Did you transmit any temperature data from your system? Â
>> > The density of the stratosphere at 37 km ASL is very small, making the
>> density difference with the helium smaller than what might be assumed via
>> LiftWin. Â
>> > Howard
>> >
>> > --- On Mon, 8/30/10, k6rpt <Ron@...> <Ron@...> wrote:
>> >
>> > From: k6rpt <Ron@...> <Ron@...>
>> > Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.
>> > To: GPSL@yahoogroups.com <http://mc/compose?to=GPSL%40yahoogroups.com>
>> > Date: Monday, August 30, 2010, 8:07 PM
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>> > The K6RPT-14 flight went well today reaching 122,649 feet. After the
>> flight I had to go back to work.
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>> > CNSP did not plan to recover this payload. Another group's chase and
>> recovery team, with one team member in an airplane went after it anyway.
>> They said the terrain was difficult for recovery.
>> >
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>> >
>> > I was surprised how slow it was ascending at the end of the flight? I
>> thought we had a floater at 122k.
>> >
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>> >
>> > -Ron K6RPT
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Onwards and Upwards,
Paul

8245. Re: [GPSL] K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 13:28:58 UTC
From: L. Paul Verhage
Topic: 8217 Message: 8245

I think Howard is saying the difference in density (pressure)* as you change altitude is smaller at 120,000 feet.

Boyancy depends on being less dense than the medium you are immersed in.

Does a change in density per foot affect ascent rates?

Paul

* There's a 1% difference in pressure and density at 100,000 feet than at sea level. By coincidence, the accleration due to gravity is 1% less at 100,000 feet. Perhaps this makes sense, since pressure is a force and force depends on mass (related to density) and the acceleration due to gravity.

On Tue, Aug 31, 2010 at 11:17 PM, Mike Manes <mrmanes@...> wrote:

> Huh? At a given temp and pressure, the density difference is still a firm
> function of the difference in molecular weight over the fill gas mass,
> independent of absolute pressure.
> 73 de Mike W5VSI
>
> On 8/30/2010 18:50, BASE wrote:
> >
> >
> > Ron,
> >
> > Did you transmit any temperature data from your system?
> >
> > The density of the stratosphere at 37 km ASL is very small, making the
> density
> > difference with the helium smaller than what might be assumed via
> LiftWin.
> >
> > Howard
> >
> > --- On *Mon, 8/30/10, k6rpt /<Ron@...>/* wrote:
> >
> >
> >
> > From: k6rpt <Ron@...>
> > Subject: [GPSL] K6RPT-14 flight went well today reaching 122,649
> feet.
> > To: GPSL@yahoogroups.com
> > Date: Monday, August 30, 2010, 8:07 PM
> >
> > The K6RPT-14 flight went well today reaching 122,649 feet. After the

> > flight I had to go back to work.
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> > CNSP did not plan to recover this payload. Another group's chase and
> > recovery team, with one team member in an airplane went after it
> anyway.
> > They said the terrain was difficult for recovery.
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> > I was surprised how slow it was ascending at the end of the flight? I
> > thought we had a floater at 122k.
> >
> > -Ron K6RPT
> >
> >
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8246. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 14:09:59 UTC
From: Michael Willett
Topic: 8221 Message: 8246

That presentation was by K5NOT - from ARBONET. The phenomenon of a pressure increase before burst is documented by ARBONET and the University of Minnesota, it is really there. I am not sure that it would result in the decrease in envelope expansion enough to demonstrate the near neutral buoyancy of the K6RPT-14 flight. But yes, the latex does start resisting continued expansion at the point I call "mechanical maximum" - where the latex just can not stretch anymore before tearing. Under ideal conditions, the lack of increased displacement of the envelope due to reaching the mechanical maximum would result in a floater, since the balloon envelope would start compressing the helium, possibly enough to achieve a balance between displacement and compression, thereby resulting in reduced lift. This is a very fine line though. We don't normally see this with 1000'ft/minute ascent rates, but at very low ascent rates like the K6RPT-14 balloon, this profile absolutely could be an indication that mechanical maximum was reached, the envelope resisted further expansion due to the lower initial envelope pressure, the very sparse helium mass started to compress, and the ascent started to level off. However, in this case, ascent was never fully arrested and the mechanical maximum was exceeded, resulting in an envelope failure.

Just one thought among many viable explanations...

We will never really know, since we don't have a profile of the K6RPT-14 envelope pressure, and no concrete evidence is available to dispute any sound idea about what happened up there.

--Michael K5NOT

On 8/31/2010 10:46 PM, Jerry Gable wrote:
> Somebody and I don't remember who presented at GPSL this year about
> the pressure increase in a balloon just before burst. I found some
> stuff on party balloons describing this effect but nothing on weather
> balloons.
>
> A few ounces of extra pressure at lower altitudes is going to wash out
> in the noise but at 120K feet where the outside pressure is 0.06 PSI
> it could make a big difference.
>
> ---
> *From:* Mark Conner <mconner1@...>
> *To:* GPSL list <GPSL@yahoogroups.com>
> *Sent:* Tue, August 31, 2010 7:15:55 PM
> *Subject:* Re: [GPSL] CNSP (K6RPT-14) flight ascent profile
>
> I'm still not sure I buy the pressurization theory - I just can't see

> latex stretched that thin suddenly exhibiting a lot more strength. I
> don't believe we see this with, say, 1500g balloons at around 100 kft.
>
> A pinhole, with a minimal pressure differential behind it, wouldn't
> seem to vent a lot of helium in an hour or two. I suppose one could
> do the math using a minimal but hopefully realistic pressure
> differential through a hole of various sizes and see just how long it
> would take, but we are probably talking several hundred to a couple
> thousand cubic feet at least.
>
> I wonder if we have something like the Reynolds number transition
> that's observed at other altitudes with smaller balloons - maybe we
> get into a flow regime that introduces a *lot* more drag. Or maybe a
> change in the balloon shape (more oblate?) that causes the drag to
> change due to the balloon's manufacturing and different thicknesses of
> the latex at different points around the surface.
>
> It would be interesting to collect the data for all 3000g balloon
> flights exceeding, say, 115 kft with light payloads and relatively low
> free lift to look for some commonality. I still remember chasing Pete
> Sias' January 2000 flight that went from Salina to Ohio, and use it
> all the time as an example of a "weird" flight.
>
> 73 de Mark N9XTN
>
> On Tue, Aug 31, 2010 at 18:24, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> I'm thinking myself that with the minimal lift, and the extra
> rarefied atmosphere, I'm wondering if we had a close,, but not
> quite good enough Pressurization of the envelope. and the lift was
> reduced, but not canceled. The envelope wasn't strong enough to
> pressurize enough. To totally cancel the lift But it did reduce it.
>
> What I'm thinking is at 120 K point was where the envelope has hit
> that cant stretch any more point, And now the pressure
> differential starts to rise. But i need accurate numbers to
> calculate these numbers to see what the actual pressure
> differential would have had to be to act like this.
>
>
>

8247. CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 14:19:32 UTC
From: Joe
Topic: 8221 Message: 8247
Attachments: 1 described; binary payloads are missing from this source WARC

I can not seem to find this answer,

Does anyone know what gas was used?

was it HE or H2?

Joe WB9SBD
--

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Idle-Tyme.com
http://www.idle-tyme.com

8248. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 14:21:26 UTC
From: Keith Kaiser
Topic: 8221 Message: 8248

They told me it was a 3000g balloon using Helium.

On Sep 1, 2010, at 9:19 AM, Joe wrote:

> I can not seem to find this answer,
>
> Does anyone know what gas was used?
>
> was it HE or H2?
>
> Joe WB9SBD
> --
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

8249. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 14:27:42 UTC
From: Joe
Topic: 8221 Message: 8249
Attachments: 1 described; binary payloads are missing from this source WARC

Thank You,

Joe WB9SBD

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/1/2010 9:21 AM, Keith Kaiser wrote:
>
>
> They told me it was a 3000g balloon using Helium.
>
> On Sep 1, 2010, at 9:19 AM, Joe wrote:
>
>> I can not seem to find this answer,
>>
>> Does anyone know what gas was used?
>>
>> was it HE or H2?
>>
>> Joe WB9SBD
>> --
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
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>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
>
>
>

8250. Re: CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 14:29:58 UTC
From: k6rpt
Topic: 8221 Message: 8250

Joe, I test tested the scale before the flight and I did the fill indoors. I put a couple of pictures on the website for you to look at. The Gas was HE.

http://www.californianearspaceproject.com/photos.K6RPT-14.html

-Ron K6RPT

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> I can not seem to find this answer,
>
> Does anyone know what gas was used?
>
> was it HE or H2?
>
> Joe WB9SBD
> --
>
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> http://www.idle-tyme.com
>

8251. Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 15:13:49 UTC
From: Joe
Topic: 8251 Message: 8251
Attachments: 1 described; binary payloads are missing from this source WARC

In the GPSL presentation where you flew the differential pressure sensor.

I Know the numbers on the chart are meaningless.

BUT,

can you give me the altitudes that the payload was at at various times
during the flight?

As many as possible would be best. But at least what altitude it was at
for at least these three levels.

135 Min into the flight.

165 min into the flight,

and 195 min into the flight.

any others would be cool too.

But what altitudes for at least those three.

Thanks A Lot.

Joe WB9SBD
--

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http://www.idle-tyme.com

8252. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 15:25:02 UTC
From: BASE
Topic: 8251 Message: 8252
Attachments: 1 described; binary payloads are missing from this source WARC

Just a clarifying point. The numbers in the ARBONET data are/were not meaningless. The scale is simply arbitrary and therefore the numbers lack units (pascals or p.s.i or ...). The numbers hopefully have relative meaning, especially if the sensor response curve is well known.
Howard

--- On Wed, 9/1/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: [GPSL] Arbornet folks,, A Question,
To: "gpsl" <GPSL@yahoogroups.com>
Date: Wednesday, September 1, 2010, 11:13 AM

In the GPSL presentation where you flew the differential pressure
sensor.

 I Know the numbers on the chart are meaningless.

BUT,

can you give me the altitudes that the payload was at at various
times during the flight?

As many as possible would be best. But at least what altitude it was
at for at least these three levels.

135 Min into the flight.

165 min into the flight,

and 195 min into the flight.

any others would be cool too.

But what altitudes for at least those three.

Thanks A Lot.

Joe WB9SBD

--

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http://www.idle-tyme.com

8253. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 15:29:44 UTC
From: Joe
Topic: 8251 Message: 8253
Attachments: 2 described; binary payloads are missing from this source WARC

Yeah,

That is actually more accurate description. I was just using the verbiage that was in the presentation. If i remember it correctly. But even that could be wrong.

Joe WB9SBD

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Idle-Tyme.com
http://www.idle-tyme.com

On 9/1/2010 10:25 AM, BASE wrote:
> Just a clarifying point. The numbers in the ARBONET data are/were not
> meaningless. The scale is simply arbitrary and therefore the numbers
> lack units (pascals or p.s.i or ...). The numbers hopefully have
> relative meaning, especially if the sensor response curve is well known.
>
> Howard
>
> --- On *Wed, 9/1/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: [GPSL] Arbornet folks,, A Question,
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> In the GPSL presentation where you flew the differential pressure
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> But what altitudes for at least those three.
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> Thanks A Lot.
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> Joe WB9SBD
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>

8254. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 15:45:42 UTC
From: Michael Willett
Topic: 8251 Message: 8254
Attachments: 1 described; binary payloads are missing from this source WARC

You are right Howard, the numbers demonstrate the relative pressure throughout the flight. The sensor itself is pretty linear, we stayed within or near the temp specs of the unit, and I won't say the unit is perfect, but I think the contribution of the offsets due to temperature would not be super significant.

Joe, the data in the presentation is all I have. Our GPS was not behaving well, so the altitudes past 29,000 feet were not reported. The altitude values received are shown in a graph within the presentation.

I am not sure I used the word "meaningless", but rather "not calibrated". I would hope I would not waste everyone's time presenting "Meaningless" data. If I did do that, I would be either a lawyer or very successful in politics! :)

--Michael
K5NOT

On 9/1/2010 10:25 AM, BASE wrote:
> Just a clarifying point. The numbers in the ARBONET data are/were not
> meaningless. The scale is simply arbitrary and therefore the numbers
> lack units (pascals or p.s.i or ...). The numbers hopefully have
> relative meaning, especially if the sensor response curve is well known.
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> Howard
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> --- On *Wed, 9/1/10, Joe /<nss@...>/* wrote:
>
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> From: Joe <nss@...>
> Subject: [GPSL] Arbornet folks,, A Question,
> To: "gpsl" <GPSL@yahoogroups.com>
> Date: Wednesday, September 1, 2010, 11:13 AM
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>

8255. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 16:03:44 UTC
From: Joe
Topic: 8251 Message: 8255
Attachments: 2 described; binary payloads are missing from this source WARC

Afternoon Michael,

If it was taken as a misunderstanding I apologize. Maybe it was someone in the chat room that made the comment about meaningless. And it stuck. Again Sorry.

So looking through the presentation again, I'm guessing a time of burst being about 195 minutes into the flight correct?

And an Bill ELK max altitude estimation of 110,000 feet.

if thats the case then I get an average of about 560 feet a minute rate of climb correct?

Yes? No?

Joe WB9SBD

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http://www.idle-tyme.com

On 9/1/2010 10:45 AM, Michael Willett wrote:
>
> You are right Howard, the numbers demonstrate the relative pressure
> throughout the flight. The sensor itself is pretty linear, we stayed
> within or near the temp specs of the unit, and I won't say the unit is
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> behaving well, so the altitudes past 29,000 feet were not reported.
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> --Michael
> K5NOT
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> On 9/1/2010 10:25 AM, BASE wrote:

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>> Howard
>>
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>>
>>
>> From: Joe <nss@...>
>> Subject: [GPSL] Arbornet folks,, A Question,
>> To: "gpsl" <GPSL@yahoogroups.com>
>> Date: Wednesday, September 1, 2010, 11:13 AM
>>
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>> Thanks A Lot.
>>
>> Joe WB9SBD
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>>

>

8256. K6RPT-14 payload found

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 16:22:07 UTC
From: k6rpt
Topic: 8256 Message: 8256

I just received an email from the property owner of where the flight went down, he has found K6RPT-14 payload. (Copy of email below)

-Ron K6RPT

Mr. Meadows,

Yesterday, Aug 30, Joe Pistritto and Ian Kluft pulled up in my yard and told me they were looking for a bolloon. I pointed the coordinates they gave me into my Global Mapper program with an overlay of the USGS Topo for this area. I knew then we were in for a hike. After hiking the woods with Ian's GPS we gave up - the tree canopy was too dense to allow an accurate reading.

Today I decided to try again. Armed with a waypoint in my GPS, I took an easier route to within two-tenths of a mile of the waypoint. An hour of hiking back and forth (mostly up and down) made me realize that following a bearing arrow was fruitless. At one point I even had to find a clearing and reboot my GPS. Then I started reading my current coordinates and comparing them to those of the waypoint. Bingo.

What's left of the balloon and the two white payload boxes attached with red cord are about 40ft off the ground in a Madrone tree that grows almost horizontally out from a 45 degree bank. Knowing well how brittle these madrones are, I fought off the inclination to shinny 40ft or so out this tree. But the good news is I know where it is.

8257. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 17:00:25 UTC
From: Michael Willett
Topic: 8251 Message: 8257
Attachments: 2 described; binary payloads are missing from this source WARC

No, no offense taken, no harm done. Joe I may have well said meaningless - referring to the scale shown on the left side of the graph, and instead meaning "relative or not calibrated". I said a few things in my presentation that made me desire a rewind button on my forehead, but that button did not seem to work when needed. :)

The balloon was inflated for a standard ascent rate, something like 1.6 X weight, but the parachute was deployed as a drag chute unintentionally and we ended up with a slow initial descent rate. However, the ascent rate greatly increased as the parachute was less effective at altitude and realized more of the slip stream as the balloon diameter increased. If you watch the video you will see the parachute hanging limp near burst, yet we now would be climbing faster than all of the previous part of the flight!

Yes, that was the estimate that Bill gave me over the phone, but it was an -estimate- feel free to add +20% to 30% :)

The climb would have an exponential curve due to the trailing parachute, so it was not a typical linear ascent in our case.

We will be flying calibrated tests here shortly, we are still debugging the hardware, but have made huge progress.

--Michael
K5NOT

On 9/1/2010 11:03 AM, Joe wrote:
> Afternoon Michael,
>
> If it was taken as a misunderstanding I apologize. Maybe it was
> someone in the chat room that made the comment about meaningless. And
> it stuck. Again Sorry.
>
> So looking through the presentation again, I'm guessing a time of
> burst being about 195 minutes into the flight correct?
>
> And an Bill ELK max altitude estimation of 110,000 feet.
>
> if thats the case then I get an average of about 560 feet a minute
> rate of climb correct?
>
> Yes? No?
>
> Joe WB9SBD

>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/1/2010 10:45 AM, Michael Willett wrote:
>>
>> You are right Howard, the numbers demonstrate the relative pressure
>> throughout the flight. The sensor itself is pretty linear, we stayed
>> within or near the temp specs of the unit, and I won't say the unit
>> is perfect, but I think the contribution of the offsets due to
>> temperature would not be super significant.
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>> Joe, the data in the presentation is all I have. Our GPS was not
>> behaving well, so the altitudes past 29,000 feet were not reported.
>> The altitude values received are shown in a graph within the
>> presentation.
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>> I am not sure I used the word "meaningless", but rather "not
>> calibrated". I would hope I would not waste everyone's time
>> presenting "Meaningless" data. If I did do that, I would be either a
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8258. Re: [GPSL] Arbornet folks,, A Question,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 17:34:36 UTC
From: Joe
Topic: 8251 Message: 8258
Attachments: 3 described; binary payloads are missing from this source WARC

Afternoon Michael.

Care to guess the curve?

Say from SL to 30K rate?
30 to 60 rate?
60 to 90 rate,
and 90+ rate.

Try your best guesstimate?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/1/2010 12:00 PM, Michael Willett wrote:
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> meaningless - referring to the scale shown on the left side of the
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8259. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 18:37:54 UTC
From: Mike Manes
Topic: 8221 Message: 8259

Michael makes an excellent point. This is perzactly how a super-pressure balloon operates - by holding a fixed volume and floating at an altitude where the mass of the displaced volume of air equals the mass of the balloon + gas + payload. Normally, the latex would not tolerate that much tension and would burst, but with such a light neck load and at that unusually high altitude, maybe it could?

It's also possible that a leak developed at the neck. The neck on a 3000 gm Totex is pretty stiff, and it's nearly impossible to fold it over to tie it off after a fill. That's why EOSS uses a modified PVC reducer and 1/2" NPT-M plug on 3000's.

Another possible causal mechanism is perforation by a meteor. I'll now avert my eyes and plug my ears to escape your jeers and evil laughter.

73 de Mike W5VSI

On 9/1/2010 08:09, Michael Willett wrote:
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> not stretch anymore before tearing. Under ideal conditions, the lack of
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> the helium, possibly enough to achieve a balance between displacement and
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> helium mass started to compress, and the ascent started to level off. However,
> in this case, ascent was never fully arrested and the mechanical maximum was
> exceeded, resulting in an envelope failure.
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> Just one thought among many viable explanations...
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> envelope pressure, and no concrete evidence is available to dispute any sound
> idea about what happened up there.
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> --Michael K5NOT
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>
>
> On 8/31/2010 10:46 PM, Jerry Gable wrote:
>> Somebody and I don't remember who presented at GPSL this year about the
>> pressure increase in a balloon just before burst. I found some stuff on
>> party balloons describing this effect but nothing on weather balloons.
>>
>> A few ounces of extra pressure at lower altitudes is going to wash out in
>> the noise but at 120K feet where the outside pressure is 0.06 PSI it could
>> make a big difference.
>>
>> ---
>> *From:* Mark Conner <mconner1@...>
>> *To:* GPSL list <GPSL@yahoogroups.com>
>> *Sent:* Tue, August 31, 2010 7:15:55 PM
>> *Subject:* Re: [GPSL] CNSP (K6RPT-14) flight ascent profile
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>> I'm still not sure I buy the pressurization theory - I just can't see latex
>> stretched that thin suddenly exhibiting a lot more strength. I don't
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>> A pinhole, with a minimal pressure differential behind it, wouldn't seem to
>> vent a lot of helium in an hour or two. I suppose one could do the math
>> using a minimal but hopefully realistic pressure differential through a hole
>> of various sizes and see just how long it would take, but we are probably
>> talking several hundred to a couple thousand cubic feet at least.
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>> I wonder if we have something like the Reynolds number transition that's
>> observed at other altitudes with smaller balloons - maybe we get into a flow
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>> It would be interesting to collect the data for all 3000g balloon flights
>> exceeding, say, 115 kft with light payloads and relatively low free lift to
>> look for some commonality. I still remember chasing Pete Sias' January 2000
>> flight that went from Salina to Ohio, and use it all the time as an example
>> of a "weird" flight.
>>
>> 73 de Mark N9XTN
>>
>> On Tue, Aug 31, 2010 at 18:24, Joe <nss@... <mailto:nss@...>> wrote:
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>> atmosphere, I'm wondering if we had a close,, but not quite good enough
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>> rise. But i need accurate numbers to calculate these numbers to see
>> what the actual pressure differential would have had to be to act like this.
>>
>>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8260. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 19:25:59 UTC
From: Joe
Topic: 8221 Message: 8260
Attachments: 1 described; binary payloads are missing from this source WARC

Thats what I'm crunching numbers on right now Mike, a low pressure
equivalent of a super pressure system.

With the giant volume of this balloon. It easily has the volume to be
able to generate quite a LOT of weight differential.

The question is if the latex has enough tensile strength to hold the
pressure in.

That part I'm working on.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
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8261. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 19:41:29 UTC
From: L. Paul Verhage
Topic: 8221 Message: 8261

Okay, I'll pipe in about the meteor. I'll break them into three groups based on mass.

First is the typical meteor we see at night. They are some 60 to 80 miles above the earth. Most are the size of a grain of sand or smaller and they won't survive their passage. They end up as some of the dust you sweep out of your house. The bit of dust that survives floats to the ground over a long period of time as a gentle rain of stony or metallic dust.

By the time larger meteors (less than 60 tons) reach the denser atmopshere, they have aerobraked enough to fall at terminal velocity. These make it to the ground for collectors and museums to purchase. Fresh meteorites are actually cold, not glowing hot. Ablation has melted their surface and as it streamed away, the vaporized melt took heat with it. Meteoriods have been cold soaking in the space for billions of years and a brief passage through the atmosphere doesn't heat up their interiors greatly (plus they made a passage through an extremely cold stratosphere to reach the ground). The largest intact meteorites in collections are 60 tons and they land with a thud, producing a minor pit in the ground. I don't think its likely that a tumbling stone will make a small hole in a balloon upon impact.

Meteors more than 60 tons will continue to fall at cosmic velocities because they are too massive for the atmosphere to slow down. If one of those impacted the balloon, there would be a substantial impact site on the ground below (or if large enough, we'd all be dead). These meteors are bright, even during the day and the impact site would be destroyed. Unless I've missed something in the news, that didn't happen.

So meteorite impact? I don't see how.

By the way, in space they're called meteoroids.
As the glowing streak across the sky, they're called meteors (the brightest are called bollides).
On the ground they're called meteorites.
If you think you have a meteorite but it turns out to be a plain 'ol earth rock, its called a meteorwrong.

Paul

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> >> A few ounces of extra pressure at lower altitudes is going to wash out
> in
> >> the noise but at 120K feet where the outside pressure is 0.06 PSI it
> could
> >> make a big difference.
> >>
> >>
> ---
> >> *From:* Mark Conner <mconner1@...>
> >> *To:* GPSL list <GPSL@yahoogroups.com>
> >> *Sent:* Tue, August 31, 2010 7:15:55 PM
> >> *Subject:* Re: [GPSL] CNSP (K6RPT-14) flight ascent profile
> >>
> >> I'm still not sure I buy the pressurization theory - I just can't see
> latex
> >> stretched that thin suddenly exhibiting a lot more strength. I don't
> >> believe we see this with, say, 1500g balloons at around 100 kft.
> >>
> >> A pinhole, with a minimal pressure differential behind it, wouldn't seem
> to
> >> vent a lot of helium in an hour or two. I suppose one could do the math
> >> using a minimal but hopefully realistic pressure differential through a
> hole
> >> of various sizes and see just how long it would take, but we are
> probably
> >> talking several hundred to a couple thousand cubic feet at least.
> >>
> >> I wonder if we have something like the Reynolds number transition that's
> >> observed at other altitudes with smaller balloons - maybe we get into a
> flow
> >> regime that introduces a *lot* more drag. Or maybe a change in the
> balloon
> >> shape (more oblate?) that causes the drag to change due to the balloon's
> >> manufacturing and different thicknesses of the latex at different points
> >> around the surface.
> >>
> >> It would be interesting to collect the data for all 3000g balloon
> flights
> >> exceeding, say, 115 kft with light payloads and relatively low free lift

> to
> >> look for some commonality. I still remember chasing Pete Sias' January
> 2000
> >> flight that went from Salina to Ohio, and use it all the time as an
> example
> >> of a "weird" flight.
> >>
> >> 73 de Mark N9XTN
> >>
> >> On Tue, Aug 31, 2010 at 18:24, Joe <nss@... <mailto:nss@...>>
> wrote:
> >>
> >> I'm thinking myself that with the minimal lift, and the extra
> rarefied
> >> atmosphere, I'm wondering if we had a close,, but not quite good
> enough
> >> Pressurization of the envelope. and the lift was reduced, but not
> >> canceled. The envelope wasn't strong enough to pressurize enough.
> To
> >> totally cancel the lift But it did reduce it.
> >>
> >> What I'm thinking is at 120 K point was where the envelope has hit
> that
> >> cant stretch any more point, And now the pressure differential
> starts to
> >> rise. But i need accurate numbers to calculate these numbers to see
> >> what the actual pressure differential would have had to be to act
> like this.
> >>
> >>
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8262. New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 21:31:18 UTC
From: GPSL@yahoogroups.com
Topic: 1529 Message: 8262

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the GPSL
group.

File : /dynamicviscositystandardatmosphere.jpg
Uploaded by : basedepauw <basedepauw@...>
Description : Here is a plot of the dynamic viscosity versus altitude according to the standard atmosphere

You can access this file at the URL:
http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

basedepauw <basedepauw@...>

8263. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 21:36:20 UTC
From: BASE
Topic: 1529 Message: 8263

I've added a simple plot of the dynamic viscosity of the standard atmosphere on the files page. It is interesting to note the increase in the dynamic viscosity above 30 km.
Since the Reynolds number is very small, the drag force on the balloon follows Stokes' Law.
 The increase in the dynamic viscosity will result in a decrease in the ascent velocity.
 This could be a contributing factor to the ascent profile of K6RPT-14 on Monday.
Howard

--- On Wed, 9/1/10, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:

From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Subject: [GPSL] New file uploaded to GPSL
To: GPSL@yahoogroups.com
Date: Wednesday, September 1, 2010, 5:31 PM

Hello,

This email message is a notification to let you know that

a file has been uploaded to the Files area of the GPSL

group.

File : /dynamicviscositystandardatmosphere.jpg

Uploaded by : basedepauw <basedepauw@...>

Description : Here is a plot of the dynamic viscosity versus altitude according to the standard atmosphere

You can access this file at the URL:

http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg

To learn more about file sharing for your group, please visit:

http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

basedepauw <basedepauw@yahoo.com>

8264. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 21:58:46 UTC
From: Jerry Gable
Topic: 1529 Message: 8264
Attachments: 1 described; binary payloads are missing from this source WARC

I have wanted to write yet another balloon lift calculator and this flight presented a question on why it slowed. I decided to see what the data looks like.

I have attached a spreadsheet that calculates the free lift every 500ft using the US Standard Atmosphere 1976 as the basis.

The one difference I did was add a pressure differential between the internal (helium pressure) and atmospheric pressure (Delta pressure inside balloon in PSI on spreadsheet) If you set this delta (blue cell) to 0 in the spreadsheet the lift is constant all the way up. If you set it to 0.01 psi it shows the lift dropping to 0 @ 120,000 feet. If this delta pressure is very low for most of the flight but increases significantly near burst this curve would be even more dramatic.

Let me know if you see anything wrong with this calculation.

From: BASE <basedepauw@yahoo.com>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 2:36:20 PM
Subject: Re: [GPSL] New file uploaded to GPSL

I've added a simple plot of the dynamic viscosity of the standard atmosphere on the files page. It is interesting to note the increase in the dynamic viscosity above 30 km.

Since the Reynolds number is very small, the drag force on the balloon follows Stokes' Law. The increase in the dynamic viscosity will result in a decrease in the ascent velocity. This could be a contributing factor to the ascent profile of K6RPT-14 on Monday.

Howard

--- On Wed, 9/1/10, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:

>From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
>Subject: [GPSL] New file uploaded to GPSL
>To: GPSL@yahoogroups.com
>Date: Wednesday, September 1, 2010, 5:31 PM
>
>
>
>
>Hello,
>

>This email message is a notification to let you know that
>a file has been uploaded to the Files area of the GPSL
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>File : /dynamicviscositystandardatmosphere.jpg
>Uploaded by : basedepauw <basedepauw@...>
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>http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg

>
>To learn more about file sharing for your group, please visit:
>http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

>
>Regards,
>
>basedepauw <basedepauw@yahoo.com>
>
>
>

8265. Re: [GPSL] New file uploaded to GPSL [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 22:02:46 UTC
From: Jerry Gable
Topic: 1529 Message: 8265

Looks like attachments are stripped. This is the link to the spreadsheet
http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls

---
From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 2:58:46 PM
Subject: Re: [GPSL] New file uploaded to GPSL [1 Attachment]

[Attachment(s) from Jerry Gable included below]
I have wanted to write yet another balloon lift calculator and this flight presented a question on why it slowed. I decided to see what the data looks like.

I have attached a spreadsheet that calculates the free lift every 500ft using the US Standard Atmosphere 1976 as the basis.

The one difference I did was add a pressure differential between the internal (helium pressure) and atmospheric pressure (Delta pressure inside balloon in PSI on spreadsheet) If you set this delta (blue cell) to 0 in the spreadsheet the lift is constant all the way up. If you set it to 0.01 psi it shows the lift dropping to 0 @ 120,000 feet. If this delta pressure is very low for most of the flight but increases significantly near burst this curve would be even more dramatic.

Let me know if you see anything wrong with this calculation.

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 2:36:20 PM
Subject: Re: [GPSL] New file uploaded to GPSL

I've added a simple plot of the dynamic viscosity of the standard atmosphere on the files page. It is interesting to note the increase in the dynamic viscosity above 30 km.

Since the Reynolds number is very small, the drag force on the balloon follows Stokes' Law. The increase in the dynamic viscosity will result in a decrease in the ascent velocity. This could be a contributing factor to the ascent profile of K6RPT-14 on Monday.

Howard

--- On Wed, 9/1/10, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:

>From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
>Subject: [GPSL] New file uploaded to GPSL

>To: GPSL@yahoogroups.com
>Date: Wednesday, September 1, 2010, 5:31 PM
>
>
>
>
>Hello,
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>This email message is a notification to let you know that
>a file has been uploaded to the Files area of the GPSL
>group.
>
>File : /dynamicviscositystandardatmosphere.jpg
>Uploaded by : basedepauw <basedepauw@...>
>Description : Here is a plot of the dynamic viscosity versus altitude according
>to the standard atmosphere
>
>
>You can access this file at the URL:
>http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg

>
>To learn more about file sharing for your group, please visit:
>http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

>
>Regards,
>
>basedepauw <basedepauw@...>
>
>
>

8266. Re: New file uploaded to GPSL [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 22:07:57 UTC
From: n1ltv
Topic: 1529 Message: 8266

> Looks like attachments are stripped. This is the link to the
> spreadsheet
> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls

Gerry,

Downloading your xls file by both methods, I find it filled with
Yahoogroups text material.

Is there something wrong with that file you're uploading?

Hank

8267. Re: K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 22:14:19 UTC
From: n1ltv
Topic: 8217 Message: 8267

> The density of the stratosphere at 37 km ASL is very small, making
> the density difference with the helium smaller than what might be
> assumed via LiftWin.

Howard,

Could you rephrase or restate the above notion please? Perhaps
using simple equations.

I can't seem to figure out what you mean, not even including
the reference to LIFTWIN.

Mike M. doesn't seem to get your point either, and rather than
any of us trying to interpret, it seems best for you to clarify.

HankÂ

8268. Re: [GPSL] Re: New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 22:20:24 UTC
From: Jerry Gable
Topic: 1529 Message: 8268

I don't understand the yahoo groups attachments thing so here it is on my public folder at dropbox

http://dl.dropbox.com/u/9446302/BalloonFlight.xls

_____
From: n1ltv <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 3:07:57 PM
Subject: [GPSL] Re: New file uploaded to GPSL

> Looks like attachments are stripped. This is the link to the
> spreadsheet
> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls

Gerry,

Downloading your xls file by both methods, I find it filled with Yahoogroups text material.

Is there something wrong with that file you're uploading?

Hank

8269. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-01 23:30:50 UTC
From: Mark Conner
Topic: 1529 Message: 8269

Nice work, Jerry. Now if we can relate lift to an ascent rate (accounting for drag changes due to Reynolds number) and have it model the flight's ascent rate, then you're on your way to talking me into the pressurization theory. It'd help even more if we can show that the level-off point for a smaller balloon isn't reached over typical altitudes.

At first blush, a 0.01 in pressure differential is plausible to my mind.

Now all we need is a well-calibrated and high-resolution psid gauge in a future balloon. Hmm......

73 de Mark N9XTN

On Wed, Sep 1, 2010 at 17:02, Jerry Gable <jerrygable@...> wrote:

>
>
> Looks like attachments are stripped. This is the link to the spreadsheet
> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>
> ------------------------------
> *From:* Jerry Gable <jerrygable@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
>
>
>
> I have wanted to write yet another balloon lift calculator and this flight
> presented a question on why it slowed. I decided to see what the data looks
> like.
>
> I have attached a spreadsheet that calculates the free lift every 500ft
> using the US Standard Atmosphere 1976 as the basis.
>
> The one difference I did was add a pressure differential between the
> internal (helium pressure) and atmospheric pressure (Delta pressure inside
> balloon in PSI on spreadsheet) If you set this delta (blue cell) to 0 in
> the spreadsheet the lift is constant all the way up. If you set it to 0.01
> psi it shows the lifting dropping to 0 @ 120,000 feet. If this delta pressure
> is very low for most of the flight but increases significantly near burst
> this curve would be even more dramatic.
>
> Let me know if you see anything wrong with this calculation.
>
> ------------------------------

> *From:* BASE <basedepauw@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, September 1, 2010 2:36:20 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
>
>
> I've added a simple plot of the dynamic viscosity of the standard
> atmosphere on the files page. It is interesting to note the increase in the
> dynamic viscosity above 30 km.
>
> Since the Reynolds number is very small, the drag force on the balloon
> follows Stokes' Law. The increase in the dynamic viscosity will result in a
> decrease in the ascent velocity. This could be a contributing factor to the
> ascent profile of K6RPT-14 on Monday.
>
> Howard
>
> --- On *Wed, 9/1/10, GPSL@yahoogroups.com <GPSL@yahoogroups.com>* wrote:
>
>
> From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> Subject: [GPSL] New file uploaded to GPSL
> To: GPSL@yahoogroups.com
> Date: Wednesday, September 1, 2010, 5:31 PM
>
>
>
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the GPSL
> group.
>
> File : /dynamicviscositystandardatmosphere.jpg
> Uploaded by : basedepauw <basedepauw@...>
> Description : Here is a plot of the dynamic viscosity versus altitude
> according to the standard atmosphere
>
> You can access this file at the URL:
>
> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>
> To learn more about file sharing for your group, please visit:
>
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>

> basedepauw <basedepauw@...>
>
>
>
>
>
>
>

8270. Re: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 00:11:47 UTC
From: BASE
Topic: 8217 Message: 8270

Hank and Mike,
Sometimes I confuse myself with what I write.
It looks like Jerry's spreadsheet addresses most of my concerns.
However, I am also wondering about the temperature of the gas inside the balloon envelope compared to the air temperature which is clearly warming. Is it possible that the temperature of the gas inside the latex balloon lags the external temperature? This would have a similar effect to Jerry's pressure difference.
Howard

--- On Wed, 9/1/10, n1ltv <n1ltv@...> wrote:

From: n1ltv <n1ltv@...>
Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
To: GPSL@yahoogroups.com
Date: Wednesday, September 1, 2010, 6:14 PM

> The density of the stratosphere at 37 km ASL is very small, making

> the density difference with the helium smaller than what might be

> assumed via LiftWin.

Howard,

Could you rephrase or restate the above notion please? Perhaps

using simple equations.

I can't seem to figure out what you mean, not even including

the reference to LIFTWIN.

Mike M. doesn't seem to get your point either, and rather than

any of us trying to interpret, it seems best for you to clarify.

HankÂ

8271. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 01:27:38 UTC
From: Jerry Gable
Topic: 1529 Message: 8271

Thanks Mark,
I guess nobody has found a bad assumption in my data yet.

As for calculating ascent rate, that is a little more difficult. The Cd (and underlying Reynolds number) is going to change as the balloon shape changes with altitude. I have been trying to find something that is reasonable but I'm not sure it is really possible though.

As for the pressure and the actual curve, there is information from Michael's presentation as well as references on the web that pressure will increase fairly significantly when you approach burst diameter. If you think that the pressure differential is fairly low until say 90% of burst diameter, the free lift would be flat and then quickly fall off just before burst.

I might have to buy some 100gm balloons and measure the delta pressure while I fill them with air to burst. Then correlate that with Michael's future flights to see if it scales.

Does anyone have any data on other flights that have turned to floaters? I would like to see if they fit the data.

I think a quote from one of my team members is appropriate for this: If it's worth engineering it's worth over engineering.

From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 4:30:50 PM
Subject: Re: [GPSL] New file uploaded to GPSL

Nice work, Jerry. Now if we can relate lift to an ascent rate (accounting for drag changes due to Reynolds number) and have it model the flight's ascent rate, then you're on your way to talking me into the pressurization theory. It'd help even more if we can show that the level-off point for a smaller balloon isn't reached over typical altitudes.

At first blush, a 0.01 in pressure differential is plausible to my mind.

Now all we need is a well-calibrated and high-resolution psid gauge in a future balloon. Hmm......

73 de Mark N9XTN

On Wed, Sep 1, 2010 at 17:02, Jerry Gable <jerrygable@...> wrote:

>
>
>Looks like attachments are stripped. This is the link to the spreadsheet

>http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>
>
>
>

From: Jerry Gable <jerrygable@...>
>To: GPSL@yahoogroups.com
>Sent: Wed, September 1, 2010 2:58:46 PM
>Subject: Re: [GPSL] New file uploaded to GPSL [1 Attachment]
>
>
>I have wanted to write yet another balloon lift calculator and this flight
>presented a question on why it slowed. I decided to see what the data looks
>like.
>
>I have attached a spreadsheet that calculates the free lift every 500ft using
>the US Standard Atmosphere 1976 as the basis.
>
>The one difference I did was add a pressure differential between the internal
>(helium pressure) and atmospheric pressure (Delta pressure inside balloon in PSI
>on spreadsheet) If you set this delta (blue cell) to 0 in the spreadsheet the
>lift is constant all the way up. If you set it to 0.01 psi it shows the lift
>dropping to 0 @ 120,000 feet. If this delta pressure is very low for most of
>the flight but increases significantly near burst this curve would be even more
>dramatic.
>
>Let me know if you see anything wrong with this calculation.
>
>
>
>

From: BASE <basedepauw@...>
>To: GPSL@yahoogroups.com
>Sent: Wed, September 1, 2010 2:36:20 PM
>Subject: Re: [GPSL] New file uploaded to GPSL
>
>
>
>I've added a simple plot of the dynamic viscosity of the standard atmosphere on
>the files page. It is interesting to note the increase in the dynamic viscosity
>above 30 km.
>
>
>Since the Reynolds number is very small, the drag force on the balloon follows
>Stokes' Law. The increase in the dynamic viscosity will result in a decrease in
>the ascent velocity. This could be a contributing factor to the ascent profile
>of K6RPT-14 on Monday.
>

>
>Howard
>
>--- On Wed, 9/1/10, GPSL@yahoogroups.com <GPSL@yahoogroups.com> wrote:
>
>
>>From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
>>Subject: [GPSL] New file uploaded to GPSL
>>To: GPSL@yahoogroups.com
>>Date: Wednesday, September 1, 2010, 5:31 PM
>>
>>
>>
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>>File : /dynamicviscositystandardatmosphere.jpg
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>>
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>>You can access this file at the URL:
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>
>>
>>To learn more about file sharing for your group, please visit:
>>http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
>>
>>Regards,
>>
>>basedepauw <basedepauw@...>
>>
>>
>>
>
>
>

8272. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 01:29:41 UTC
From: Mike Manes
Topic: 8221 Message: 8272

There's the rub. If latex were that strong unconditionally, then all of our flights would be floaters rather than bursters. The hard part of developing a superpressure balloon is finding envelope material that's both light and strong. It can be done easily with ordinary film with 50 gm payloads and float altitudes in the troposphere.

73 de Mike W5VSI

On 9/1/2010 13:25, Joe wrote:
> Thats what I'm crunching numbers on right now Mike, a low pressure
> equivalent of a super pressure system.
>
> With the giant volume of this balloon. It easily has the volume to be able to
> generate quite a LOT of weight differential.
>
> The question is if the latex has enough tensile strength to hold the pressure in.
>
> That part I'm working on.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/1/2010 1:37 PM, Mike Manes wrote:
>> Michael makes an excellent point. This is perzactly how a super-pressure
>> balloon operates - by holding a fixed volume and floating at an
>> altitude where the mass of the displaced volume of air equals the mass
>> of the balloon + gas + payload. Normally, the latex would not tolerate
>> that much tension and would burst, but with such a light neck load and
>> at that unusually high altitude, maybe it could?
>>
>> It's also possible that a leak developed at the neck. The neck on a
>> 3000 gm Totex is pretty stiff, and it's nearly impossible to fold it
>> over to tie it off after a fill. That's why EOSS uses a modified PVC
>> reducer and 1/2" NPT-M plug on 3000's.
>>
>> Another possible causal mechanism is perforation by a meteor. I'll now
>> avert my eyes and plug my ears to escape your jeers and evil laughter.
>>
>> 73 de Mike W5VSI
>>
>> On 9/1/2010 08:09, Michael Willett wrote:

>>>
>>>
>>> That presentation was by K5NOT - from ARBONET. The phenomenon of a pressure
>>> increase before burst is documented by ARBONET and the University of
>>> Minnesota, it is really there. I am not sure that it would result in the
>>> decrease in envelope expansion enough to demonstrate the near neutral buoyancy
>>> of the K6RPT-14 flight. But yes, the latex does start resisting continued
>>> expansion at the point I call "mechanical maximum" - where the latex just can
>>> not stretch anymore before tearing. Under ideal conditions, the lack of
>>> increased displacement of the envelope due to reaching the mechanical maximum
>>> would result in a floater, since the balloon envelope would start compressing
>>> the helium, possibly enough to achieve a balance between displacement and
>>> compression, thereby resulting in reduced lift. This is a very fine line
>>> though. We don't normally see this with 1000'ft/minute ascent rates, but at
>>> very low ascent rates like the K6RPT-14 balloon, this profile absolutely could
>>> be an indication that mechanical maximum was reached, the envelope resisted
>>> further expansion due to the lower initial envelope pressure, the very sparse
>>> helium mass started to compress, and the ascent started to level off. However,
>>> in this case, ascent was never fully arrested and the mechanical maximum was
>>> exceeded, resulting in an envelope failure.
>>>
>>> Just one thought among many viable explanations...
>>>
>>> We will never really know, since we don't have a profile of the K6RPT-14
>>> envelope pressure, and no concrete evidence is available to dispute any sound
>>> idea about what happened up there.
>>>
>>> --Michael K5NOT
>>>
>>>
>>>
>>> On 8/31/2010 10:46 PM, Jerry Gable wrote:
>>>> Somebody and I don't remember who presented at GPSL this year about the
>>>> pressure increase in a balloon just before burst. I found some stuff on
>>>> party balloons describing this effect but nothing on weather balloons.
>>>>
>>>> A few ounces of extra pressure at lower altitudes is going to wash out in
>>>> the noise but at 120K feet where the outside pressure is 0.06 PSI it could
>>>> make a big difference.
>>>>
>>>> ---
>>>> *From:* Mark Conner<mconner1@...>
>>>> *To:* GPSL list<GPSL@yahoogroups.com>
>>>> *Sent:* Tue, August 31, 2010 7:15:55 PM
>>>> *Subject:* Re: [GPSL] CNSP (K6RPT-14) flight ascent profile
>>>>
>>>> I'm still not sure I buy the pressurization theory - I just can't see latex
>>>> stretched that thin suddenly exhibiting a lot more strength. I don't
>>>> believe we see this with, say, 1500g balloons at around 100 kft.
>>>>

>>>> A pinhole, with a minimal pressure differential behind it, wouldn't seem to
>>>> vent a lot of helium in an hour or two. I suppose one could do the math
>>>> using a minimal but hopefully realistic pressure differential through a hole
>>>> of various sizes and see just how long it would take, but we are probably
>>>> talking several hundred to a couple thousand cubic feet at least.
>>>>
>>>> I wonder if we have something like the Reynolds number transition that's
>>>> observed at other altitudes with smaller balloons - maybe we get into a flow
>>>> regime that introduces a *lot* more drag. Or maybe a change in the balloon
>>>> shape (more oblate?) that causes the drag to change due to the balloon's
>>>> manufacturing and different thicknesses of the latex at different points
>>>> around the surface.
>>>>
>>>> It would be interesting to collect the data for all 3000g balloon flights
>>>> exceeding, say, 115 kft with light payloads and relatively low free lift to
>>>> look for some commonality. I still remember chasing Pete Sias' January 2000
>>>> flight that went from Salina to Ohio, and use it all the time as an example
>>>> of a "weird" flight.
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>> On Tue, Aug 31, 2010 at 18:24, Joe<nss@... <mailto:nss@...>> wrote:
>>>>
>>>> I'm thinking myself that with the minimal lift, and the extra rarefied
>>>> atmosphere, I'm wondering if we had a close,, but not quite good enough
>>>> Pressurization of the envelope. and the lift was reduced, but not
>>>> canceled. The envelope wasn't strong enough to pressurize enough. To
>>>> totally cancel the lift But it did reduce it.
>>>>
>>>> What I'm thinking is at 120 K point was where the envelope has hit that
>>>> cant stretch any more point, And now the pressure differential starts to
>>>> rise. But i need accurate numbers to calculate these numbers to see
>>>> what the actual pressure differential would have had to be to act like this.
>>>>
>>>>
>>>
>>>
>>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8273. RE new file, internal pressure = 0.01 psi (?)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 01:31:40 UTC
From: Mark Caviezel
Topic: 8273 Message: 8273

Jerry,
I took a look at your spreadsheet.
Can you explain the 0.01 psid internal pressure? Seems high by more than an order of magnatude at launch, at least the way I analyze balloon pressures and stresses.

- Mark ng0x

8274. Re: [GPSL] CNSP (K6RPT-14) flight ascent profile

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 01:42:21 UTC
From: Mike Manes
Topic: 8221 Message: 8274

Terminal velocity, given a fixed drag area, varies inversely with the square root of air density. So a meteoroid (thenkyew) will fall ten times as fast at 100K' (10 mbar) than it will at sea level. Now, kinetic energy varies as the square of velocity, yielding 100x the energy at 100K' vs the deck.

So an object in free fall thru the atmosphere will carry kinetic energy inversely proportional to air density.

Enough to puncture a latex envelope? Beats me, but not out of the question.

Ain't physics wunnerful?

73 de Mike W5VSI

On 9/1/2010 13:41, L. Paul Verhage wrote:
>
>
> Okay, I'll pipe in about the meteor. I'll break them into three groups based
> on mass.
> First is the typical meteor we see at night. They are some 60 to 80 miles
> above the earth. Most are the size of a grain of sand or smaller and they
> won't survive their passage. They end up as some of the dust you sweep out of
> your house. The bit of dust that survives floats to the ground over a long
> period of time as a gentle rain of stony or metallic dust.
> By the time larger meteors (less than 60 tons) reach the denser atmopshere,
> they have aerobraked enough to fall at terminal velocity. These make it to
> the ground for collectors and museums to purchase. Fresh meteorites are
> actually cold, not glowing hot. Ablation has melted their surface and as it
> streamed away, the vaporized melt took heat with it. Meteoriods have been
> cold soaking in the space for billions of years and a brief passage through
> the atmosphere doesn't heat up their interiors greatly (plus they made a
> passage through an extremely cold stratosphere to reach the ground). The
> largest intact meteorites in collections are 60 tons and they land with a
> thud, producing a minor pit in the ground. I don't think its likely that a
> tumbling stone will make a small hole in a balloon upon impact.
> Meteors more than 60 tons will continue to fall at cosmic velocities
> because they are too massive for the atmosphere to slow down. If one of those
> impacted the balloon, there would be a substantial impact site on the ground
> below (or if large enough, we'd all be dead). These meteors are bright, even
> during the day and the impact site would be destroyed. Unless I've missed
> something in the news, that didn't happen.
> So meteorite impact? I don't see how.
> By the way, in space they're called meteoroids.
> As the glowing streak across the sky, they're called meteors (the brightest
> are called bollides).
> On the ground they're called meteorites.

> If you think you have a meteorite but it turns out to be a plain 'ol earth
> rock, its called a meteorwrong.
> Paul
>
>
> On Wed, Sep 1, 2010 at 1:37 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Michael makes an excellent point. This is perzactly how a super-pressure
> balloon operates - by holding a fixed volume and floating at an
> altitude where the mass of the displaced volume of air equals the mass
> of the balloon + gas + payload. Normally, the latex would not tolerate
> that much tension and would burst, but with such a light neck load and
> at that unusually high altitude, maybe it could?
>
> It's also possible that a leak developed at the neck. The neck on a
> 3000 gm Totex is pretty stiff, and it's nearly impossible to fold it
> over to tie it off after a fill. That's why EOSS uses a modified PVC
> reducer and 1/2" NPT-M plug on 3000's.
>
> Another possible causal mechanism is perforation by a meteor. I'll now
> avert my eyes and plug my ears to escape your jeers and evil laughter.
>
> 73 de Mike W5VSI
>
> On 9/1/2010 08:09, Michael Willett wrote:
> >
> >
> >
> > That presentation was by K5NOT - from ARBONET. The phenomenon of a pressure
> > increase before burst is documented by ARBONET and the University of
> > Minnesota, it is really there. I am not sure that it would result in the
> > decrease in envelope expansion enough to demonstrate the near neutral
> buoyancy
> > of the K6RPT-14 flight. But yes, the latex does start resisting continued
> > expansion at the point I call "mechanical maximum" - where the latex
> just can
> > not stretch anymore before tearing. Under ideal conditions, the lack of
> > increased displacement of the envelope due to reaching the mechanical
> maximum
> > would result in a floater, since the balloon envelope would start
> compressing
> > the helium, possibly enough to achieve a balance between displacement and
> > compression, thereby resulting in reduced lift. This is a very fine line
> > though. We don't normally see this with 1000'ft/minute ascent rates, but at
> > very low ascent rates like the K6RPT-14 balloon, this profile
> absolutely could
> > be an indication that mechanical maximum was reached, the envelope resisted
> > further expansion due to the lower initial envelope pressure, the very
> sparse

> > helium mass started to compress, and the ascent started to level off.
> However,
> > in this case, ascent was never fully arrested and the mechanical
> maximum was
> > exceeded, resulting in an envelope failure.
> >
> > Just one thought among many viable explanations...
> >
> > We will never really know, since we don't have a profile of the K6RPT-14
> > envelope pressure, and no concrete evidence is available to dispute any
> sound
> > idea about what happened up there.
> >
> > --Michael K5NOT
> >
> >
> >
> > On 8/31/2010 10:46 PM, Jerry Gable wrote:
> >> Somebody and I don't remember who presented at GPSL this year about the
> >> pressure increase in a balloon just before burst. I found some stuff on
> >> party balloons describing this effect but nothing on weather balloons.
> >>
> >> A few ounces of extra pressure at lower altitudes is going to wash out in
> >> the noise but at 120K feet where the outside pressure is 0.06 PSI it could
> >> make a big difference.
> >>
> >>
> ---
> >> *From:* Mark Conner <mconner1@... <mailto:mconner1@...>>
> >> *To:* GPSL list <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
> >> *Sent:* Tue, August 31, 2010 7:15:55 PM
> >> *Subject:* Re: [GPSL] CNSP (K6RPT-14) flight ascent profile
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> >> using a minimal but hopefully realistic pressure differential through
> a hole
> >> of various sizes and see just how long it would take, but we are probably
> >> talking several hundred to a couple thousand cubic feet at least.
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> balloon
> >> shape (more oblate?) that causes the drag to change due to the balloon's
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> >> exceeding, say, 115 kft with light payloads and relatively low free
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> >> flight that went from Salina to Ohio, and use it all the time as an
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> >> 73 de Mark N9XTN
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> >> On Tue, Aug 31, 2010 at 18:24, Joe <nss@... <mailto:nss@...>
> <mailto:nss@... <mailto:nss@...>>> wrote:
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> >> canceled. The envelope wasn't strong enough to pressurize enough. To
> >> totally cancel the lift But it did reduce it.
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> >> cant stretch any more point, And now the pressure differential
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> >> rise. But i need accurate numbers to calculate these numbers to see
> >> what the actual pressure differential would have had to be to act
> like this.
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> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
>

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>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8275. Re: [GPSL] RE new file, internal pressure = 0.01 psi (?)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:19:29 UTC
From: Jerry Gable
Topic: 8273 Message: 8275

It's really a SWAG but I'm not sure it is that far off. A 10 meter altitude change is about 0.01PSI. In normal breathing the pressure in your lungs is changes +- 0.06psi.

And in reality I don't expect the delta pressure to be that high until you are close to the burst point of the balloon. Until I can find some better numbers on what the curve looks like as you approach burst I didn't want to guess on the shape of that curve.

From: Mark Caviezel <kmcaviezel@...>
To: GPSL@yahoogroups.com
Sent: Wed, September 1, 2010 6:31:40 PM
Subject: [GPSL] RE new file, internal pressure = 0.01 psi (?)

Jerry,
I took a look at your spreadsheet.
Can you explain the 0.01 psid internal pressure? Seems high by more than an order of magnatude at launch, at least the way I analyze balloon pressures and stresses.

- Mark ng0x

8276. Re: [GPSL] New file uploaded to GPSL [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:25:18 UTC
From: Mike Manes
Topic: 1529 Message: 8276

Hi Jerry,

Hey, neat work!

The only problem that I can see is the assumption of a constant gage pressure inside the balloon. Some folks have observed a marked rise in gage pressure as the envelope approaches its burst diameter. In fact, Space Data uses that parameter to initiate a gas dump in order to achieve a stable float. So if the gage pressure rises with envelope expansion, then one might expect to see a flatter free lift curve at lower altitudes.

And I noticed that you'd included a Coefficient of Drag (Cd) constant, perhaps in anticipation of cutting an ascent rate computation. When I did that, I never came close to the near-constant ascent rate that we're accustomed to seeing empirically. Turns out that Cd isn't constant due to some rather large variations in Reynold's Number. I think Nick Hanks discussed his findings in that regard at GPSL a few years ago.

73 de Mike W5VSI

On 9/1/2010 15:58, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> I have wanted to write yet another balloon lift calculator and this flight
> presented a question on why it slowed. I decided to see what the data looks like.
>
> I have attached a spreadsheet that calculates the free lift every 500ft using
> the US Standard Atmosphere 1976 as the basis.
>
> The one difference I did was add a pressure differential between the internal
> (helium pressure) and atmospheric pressure (Delta pressure inside balloon in
> PSI on spreadsheet) If you set this delta (blue cell) to 0 in the spreadsheet
> the lift is constant all the way up. If you set it to 0.01 psi it shows the
> lift dropping to 0 @ 120,000 feet. If this delta pressure is very low for most
> of the flight but increases significantly near burst this curve would be even
> more dramatic.
>
> Let me know if you see anything wrong with this calculation.
>
> ---
> *From:* BASE <basedepauw@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, September 1, 2010 2:36:20 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL

>
> I've added a simple plot of the dynamic viscosity of the standard atmosphere
> on the files page. It is interesting to note the increase in the dynamic
> viscosity above 30 km.
>
> Since the Reynolds number is very small, the drag force on the balloon follows
> Stokes' Law. The increase in the dynamic viscosity will result in a decrease
> in the ascent velocity. This could be a contributing factor to the ascent
> profile of K6RPT-14 on Monday.
>
> Howard
>
> --- On *Wed, 9/1/10, GPSL@yahoogroups.com /<GPSL@yahoogroups.com>/* wrote:
>
>
> From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> Subject: [GPSL] New file uploaded to GPSL
> To: GPSL@yahoogroups.com
> Date: Wednesday, September 1, 2010, 5:31 PM
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the GPSL
> group.
>
> File : /dynamicviscositystandardatmosphere.jpg
> Uploaded by : basedepauw <basedepauw@...>
> Description : Here is a plot of the dynamic viscosity versus altitude
> according to the standard atmosphere
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>
> basedepauw <basedepauw@...>
>
>
>
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 File(s)
>

> BalloonFlight.xls
> <http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight%2Exls>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8277. Re: [GPSL] Re: New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:30:20 UTC
From: Mike Manes
Topic: 1529 Message: 8277

Huh ... your .xls downloaded and opened in Excel right upon my clicking
on the attachment link in your original post. USoft vaporware strikes
again?
73 de Mike W5VSI

On 9/1/2010 16:20, Jerry Gable wrote:
>
>
> I don't understand the yahoo groups attachments thing so here it is on my
> public folder at dropbox
>
> http://dl.dropbox.com/u/9446302/BalloonFlight.xls
>
> ---
> *From:* n1ltv <n1ltv@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, September 1, 2010 3:07:57 PM
> *Subject:* [GPSL] Re: New file uploaded to GPSL
>
>
> > Looks like attachments are stripped. This is the link to the
> > spreadsheet
> > http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>
> Gerry,
>
> Downloading your xls file by both methods, I find it filled with
> Yahoogroups text material.
>
> Is there something wrong with that file you're uploading?
>
> Hank
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8278. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:34:36 UTC
From: Joe
Topic: 1529 Message: 8278
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

I don't think the test of the small balloons will scale very well for us.

The tensile strength is pretty close to the same balloon to balloon, Or
at least the tthree I tested, (300, 600, 1500 Gram sizes) all had
almost identical tensile strengths.

Taking that into account, pressure, and the radius, determine the
point of failure of the sphere,

The smaller the radius the higher the pressure it can hold back before
giving up.

But then again the larger sphere because of it's volume, does not need
to generate as much pressure, to lessen it's lifting capabilities.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/1/2010 8:27 PM, Jerry Gable wrote:
>
>
> Thanks Mark,
> I guess nobody has found a bad assumption in my data yet.
>
> As for calculating ascent rate, that is a little more difficult. The
> Cd (and underlying Reynolds number) is going to change as the balloon
> shape changes with altitude. I have been trying to find something
> that is reasonable but I'm not sure it is really possible though.
>
> As for the pressure and the actual curve, there is information from
> Michael's presentation as well as references on the web that pressure
> will increase fairly significantly when you approach burst diameter.
> If you think that the pressure differential is fairly low until say
> 90% of burst diameter, the free lift would be flat and then quickly
> fall off just before burst.
>
> I might have to buy some 100gm balloons and measure the delta pressure
> while I fill them with air to burst. Then correlate that with
> Michael's future flights to see if it scales.
>

> Does anyone have any data on other flights that have turned to
> floaters? I would like to see if they fit the data.
>
> I think a quote from one of my team members is appropriate for this:
> If it's worth engineering it's worth over engineering.
>
> ---
> *From:* Mark Conner <mconner1@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Wed, September 1, 2010 4:30:50 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
> Nice work, Jerry. Now if we can relate lift to an ascent rate
> (accounting for drag changes due to Reynolds number) and have it model
> the flight's ascent rate, then you're on your way to talking me into
> the pressurization theory. It'd help even more if we can show that
> the level-off point for a smaller balloon isn't reached over typical
> altitudes.
>
> At first blush, a 0.01 in pressure differential is plausible to my mind.
>
> Now all we need is a well-calibrated and high-resolution psid gauge in
> a future balloon. Hmm......
>
> 73 de Mark N9XTN
>
> On Wed, Sep 1, 2010 at 17:02, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
>
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> Looks like attachments are stripped. This is the link to the
> spreadsheet
> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>
> ---
> *From:* Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
>
> I have wanted to write yet another balloon lift calculator and
> this flight presented a question on why it slowed. I decided to
> see what the data looks like.
>
> I have attached a spreadsheet that calculates the free lift every
> 500ft using the US Standard Atmosphere 1976 as the basis.
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> The one difference I did was add a pressure differential between

> the internal (helium pressure) and atmospheric pressure (Delta
> pressure inside balloon in PSI on spreadsheet) If you set this
> delta (blue cell) to 0 in the spreadsheet the lift is constant all
> the way up. If you set it to 0.01 psi it shows the lift dropping
> to 0 @ 120,000 feet. If this delta pressure is very low for most
> of the flight but increases significantly near burst this curve
> would be even more dramatic.
>
> Let me know if you see anything wrong with this calculation.
>
> ---
> *From:* BASE <basedepauw@... <mailto:basedepauw@...>>
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> viscosity will result in a decrease in the ascent velocity. This
> could be a contributing factor to the ascent profile of K6RPT-14
> on Monday.
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> <mailto:GPSL@yahoogroups.com>>/* wrote:
>
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> From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
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>
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>
> basedepauw <basedepauw@...>
>
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>

8279. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:38:35 UTC
From: Mike Manes
Topic: 1529 Message: 8279

I think Mike of ARBONET has figured out that the payload that reads
that pressure transducer must be attached right to the balloon neck,
thus obviating the normal balloon - lift line - parachute - payload
order. Either that, or link the transducer data at the balloon
down the string via a wireless link, e.g. Bluetooth. If the lift
line were in the form of a rope ladder to eliminate twisting, a
wired link could work - but what a mess to bring back on the 'chute
apex on descent!

73 de Mike W5VSI

On 9/1/2010 17:30, Mark Conner wrote:
>
>
> Nice work, Jerry. Now if we can relate lift to an ascent rate (accounting for
> drag changes due to Reynolds number) and have it model the flight's ascent
> rate, then you're on your way to talking me into the pressurization theory.
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> Now all we need is a well-calibrated and high-resolution psid gauge in a
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> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
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> the spreadsheet the lift is constant all the way up. If you set it to
> 0.01 psi it shows the lift dropping to 0 @ 120,000 feet. If this delta
> pressure is very low for most of the flight but increases significantly
> near burst this curve would be even more dramatic.
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> Let me know if you see anything wrong with this calculation.
>
> ---
> *From:* BASE <basedepauw@... <mailto:basedepauw@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wed, September 1, 2010 2:36:20 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
> I've added a simple plot of the dynamic viscosity of the standard
> atmosphere on the files page. It is interesting to note the increase in
> the dynamic viscosity above 30 km.
>
> Since the Reynolds number is very small, the drag force on the balloon
> follows Stokes' Law. The increase in the dynamic viscosity will result in
> a decrease in the ascent velocity. This could be a contributing factor to
> the ascent profile of K6RPT-14 on Monday.
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> --- On *Wed, 9/1/10, GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> /<GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>/* wrote:
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> From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
> Subject: [GPSL] New file uploaded to GPSL
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Date: Wednesday, September 1, 2010, 5:31 PM
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> group.
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> File : /dynamicviscositystandardatmosphere.jpg
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>
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> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
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> Regards,
>
> basedepauw <basedepauw@...>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8280. Re: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 02:58:12 UTC
From: Mike Manes
Topic: 8217 Message: 8280

Hi Howard,

As I mentioned in an earlier post, He seems to absorb solar radiation
and keep in inside the envelope. So if anything, I'd expect the He
bubble to be a bit warmer than the surrounding air. But He also
has an extraordinarily large specific heat, which is why it's used
as a heat transfer medium for nuclear reactors; so it could provide
the thermal storage mass that you propose.

That kinda suggests that any experiments that measure balloon gas
pressure might also consider throwing in a temperature measurement
as well.

73 de Mike W5VSI

On 9/1/2010 18:11, BASE wrote:
>
>
> Hank and Mike,
>
> Sometimes I confuse myself with what I write.
>
> It looks like Jerry's spreadsheet addresses most of my concerns.
>
> However, I am also wondering about the temperature of the gas inside the
> balloon envelope compared to the air temperature which is clearly warming. Is
> it possible that the temperature of the gas inside the latex balloon lags the
> external temperature? This would have a similar effect to Jerry's pressure
> difference.
>
> Howard
>
>
>
>
>
> --- On *Wed, 9/1/10, n1ltv /<n1ltv@...>/* wrote:
>
>
> From: n1ltv <n1ltv@...>
> Subject: [GPSL] Re: K6RPT-14 flight went well today reaching 122,649 feet.
> To: GPSL@yahoogroups.com
> Date: Wednesday, September 1, 2010, 6:14 PM
>
> > The density of the stratosphere at 37 km ASL is very small, making
> > the density difference with the helium smaller than what might be

> > assumed via LiftWin.
>
> Howard,
>
> Could you rephrase or restate the above notion please? Perhaps
> using simple equations.
>
> I can't seem to figure out what you mean, not even including
> the reference to LIFTWIN.
>
> Mike M. doesn't seem to get your point either, and rather than
> any of us trying to interpret, it seems best for you to clarify.
>
> HankÂ
>
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8281. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 03:33:46 UTC
From: Mark Conner
Topic: 1529 Message: 8281

A small logger right with the transducer might be the way to go. You'd need time hacks (easy enough) and could then time-sync the pressure values with GPS data on the main payload after recovery.

There are some Honeywell pressure sensors that could have the required resolution but the extreme cold may ruin the calibration and make the values untrustworthy.

73 de Mark N9XTN

On Wed, Sep 1, 2010 at 21:38, Mike Manes <mrmanes@...> wrote:

> I think Mike of ARBONET has figured out that the payload that reads
> that pressure transducer must be attached right to the balloon neck,
> thus obviating the normal balloon - lift line - parachute - payload
> order. Either that, or link the transducer data at the balloon
> down the string via a wireless link, e.g. Bluetooth. If the lift
> line were in the form of a rope ladder to eliminate twisting, a
> wired link could work - but what a mess to bring back on the 'chute
> apex on descent!
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>
>
> On 9/1/2010 17:30, Mark Conner wrote:
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>> Nice work, Jerry. Now if we can relate lift to an ascent rate (accounting
>> for
>> drag changes due to Reynolds number) and have it model the flight's ascent
>> rate, then you're on your way to talking me into the pressurization
>> theory.
>> It'd help even more if we can show that the level-off point for a smaller
>> balloon isn't reached over typical altitudes.
>>
>> At first blush, a 0.01 in pressure differential is plausible to my mind.
>>
>> Now all we need is a well-calibrated and high-resolution psid gauge in a
>> future balloon. Hmm......
>>
>> 73 de Mark N9XTN
>>
>> On Wed, Sep 1, 2010 at 17:02, Jerry Gable <jerrygable@...
>> <mailto:jerrygable@...>> wrote:
>>

>>
>>
>> Looks like attachments are stripped. This is the link to the
>> spreadsheet
>> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>>
>>
>> ---
>> *From:* Jerry Gable <jerrygable@... <mailto:jerrygable@...
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>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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>> *Sent:* Wed, September 1, 2010 2:58:46 PM
>> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
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>> I have wanted to write yet another balloon lift calculator and this
>> flight
>> presented a question on why it slowed. I decided to see what the data
>> looks like.
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>> I have attached a spreadsheet that calculates the free lift every 500ft
>> using the US Standard Atmosphere 1976 as the basis.
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>> internal (helium pressure) and atmospheric pressure (Delta pressure
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>> *From:* BASE <basedepauw@... <mailto:basedepauw@...>>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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>> *Sent:* Wed, September 1, 2010 2:36:20 PM
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>>
>> Regards,
>>
>> basedepauw <basedepauw@...>
>>
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>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

8282. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 13:16:05 UTC
From: L. Paul Verhage
Topic: 1529 Message: 8282

This was making me think we need a small BalloonSat inside the balloon. The Xbee radio at Parallax is only $19 and has the range. I can donate a BalloonSat Mini to the cause. I have Xbee radio boards for robotics that will attach to the Mini. What kind of flight computer is in the payload? My BalloonSat Extreme will record GPS data and listen to the BalloonSat Mini inside the balloon.

What pressure sensor is recommended?

Paul

On Wed, Sep 1, 2010 at 10:33 PM, Mark Conner <mconner1@...> wrote:

>
>
> A small logger right with the transducer might be the way to go. You'd
> need time hacks (easy enough) and could then time-sync the pressure values
> with GPS data on the main payload after recovery.
>
> There are some Honeywell pressure sensors that could have the required
> resolution but the extreme cold may ruin the calibration and make the values
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>
> 73 de Mark N9XTN
>
>
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>> wired link could work - but what a mess to bring back on the 'chute
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>>> rate, then you're on your way to talking me into the pressurization
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>>>
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>>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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>> Mike Manes mrmanes@... Tel: 303-979-4899
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>
>
>
>

--
Onwards and Upwards,
Paul

8283. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 14:00:40 UTC
From: Mark Conner
Topic: 1529 Message: 8283

This series has I2C digital output and either 3.3 or 5.0 V for supply
voltage:
http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0

Since we are measuring very small pressure differentials, I would suggest
the smallest range available (the +/-5 in H2O version measures +/-0.18
psi). Mouser has at least some of these sensor types in stock. The
documentation is somewhat inconsistent, but with about 12-bit (4096 count)
resolution, the resolution is about .0001 psi. The trouble might be that
it's only good down to 0C calibrated and minimum operating temp is -20C. It
may be hard to get one that's fully rated down to the temps we need, but
maybe it's functional enough.

73 de Mark N9XTN

On Thu, Sep 2, 2010 at 08:16, L. Paul Verhage <nearsys@...> wrote:

>
>
> This was making me think we need a small BalloonSat inside the balloon.
> The Xbee radio at Parallax is only $19 and has the range. I can donate a
> BalloonSat Mini to the cause. I have Xbee radio boards for robotics that
> will attach to the Mini. What kind of flight computer is in the payload?
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>>>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
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>>>> Regards,
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>>>> basedepauw <basedepauw@...>
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> Onwards and Upwards,
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8284. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 14:07:37 UTC
From: Joe
Topic: 1529 Message: 8284
Attachments: 1 described; binary payloads are missing from this source WARC

I think the cold is gonna possibly be a problem. But a flight could
always do it again like the Abornet gang did where the balloon was right
at the payload. and the sensor was inside nice and toasty.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 9:00 AM, Mark Conner wrote:
>
>
> This series has I2C digital output and either 3.3 or 5.0 V for supply
> voltage:
> http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0
>
> Since we are measuring very small pressure differentials, I would
> suggest the smallest range available (the +/-5 in H2O version measures
> +/-0.18 psi). Mouser has at least some of these sensor types in
> stock. The documentation is somewhat inconsistent, but with about
> 12-bit (4096 count) resolution, the resolution is about .0001 psi.
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> ---
> *From:* Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>
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> *To:* GPSL@yahoogroups.com
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> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1
> Attachment]
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> using the US Standard Atmosphere 1976 as the basis.
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> delta (blue cell) to 0 in
> the spreadsheet the lift is constant all the way
> up. If you set it to
> 0.01 psi it shows the lift dropping to 0 @ 120,000
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> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>
>
> To learn more about file sharing for your
> group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>
> basedepauw <basedepauw@...
> <mailto:basedepauw@...>>
>
>
>

>
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>
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> Mike Manes mrmanes@... <mailto:mrmanes@...>
> Tel: 303-979-4899
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> Onwards and Upwards,
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8285. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 14:17:09 UTC
From: L. Paul Verhage
Topic: 1529 Message: 8285
Attachments: 1 described; binary payloads are missing from this source WARC

I've downloaded the datasheet and will order a few sensors this weekend.

Cold could be a problem, but I don't know about running the sensor inside the near spacecraft. I'm thinking that running a hose to the payload could create issues. The sensor inside the balloon and a radio link would seem conceptually simpler (but also colder as Joe mentioned). Joe, what idea did you have in mind?

I would be interested in gettng the experiment back. I think we could tie the experiment to the load line so when the balloon bursts, it comes back with the 'chute. I can include a temperature and relative humidity sensor with the BalloonSat Mini (maybe a BalloonSat Easy since the sensor is I2C). The extra data ought to be useful. The BalloonSat flight computer digitizes to 10 bits of resolution. That's 0.5 deg C resolution and about 0.4% in RH.

Paul

On Thu, Sep 2, 2010 at 9:07 AM, Joe <nss@...> wrote:

> I think the cold is gonna possibly be a problem. But a flight could always
> do it again like the Abornet gang did where the balloon was right at the
> payload. and the sensor was inside nice and toasty.
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 9:00 AM, Mark Conner wrote:
>
> This series has I2C digital output and either 3.3 or 5.0 V for supply
> voltage:
>
> http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0
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> Since we are measuring very small pressure differentials, I would suggest
> the smallest range available (the +/-5 in H2O version measures +/-0.18
> psi). Mouser has at least some of these sensor types in stock. The
> documentation is somewhat inconsistent, but with about 12-bit (4096 count)
> resolution, the resolution is about .0001 psi. The trouble might be that
> it's only good down to 0C calibrated and minimum operating temp is -20C. It

> may be hard to get one that's fully rated down to the temps we need, but
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>> will attach to the Mini. What kind of flight computer is in the payload?
>> My BalloonSat Extreme will record GPS data and listen to the BalloonSat Mini
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>> On Wed, Sep 1, 2010 at 10:33 PM, Mark Conner <mconner1@...> wrote:
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>>>>> To learn more about file sharing for your group, please visit:
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>>>>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
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>>>>> Regards,
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>> Onwards and Upwards,

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Onwards and Upwards,
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8286. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 14:28:45 UTC
From: Joe
Topic: 1529 Message: 8286
Attachments: 1 described; binary payloads are missing from this source WARC

On 9/2/2010 9:17 AM, L. Paul Verhage wrote:
>
>
> I've downloaded the datasheet and will order a few sensors this weekend.
What Pressure Range did you order?
> Cold could be a problem,
Who had the cold bell jar if I remember someone had one.
> but I don't know about running the sensor inside the near spacecraft.
> I'm thinking that running a hose to the payload could create issues.
That is the problem. And other than what the ABORNET gang did I at this
early morning moment, just don't see a safe alternative.
> The sensor inside the balloon and a radio link would seem conceptually
> simpler (but also colder as Joe mentioned). Joe, what idea did you
> have in mind?
Sadly none any better than the ARBORNET method. Does anyone know how
the University of Minnesota gang did theirs? I know they ran some
flights, but i never heard about the success of them or of any data that
came from them.
> I would be interested in gettng the experiment back.
He he he don't we all!
> I think we could tie the experiment to the load line so when the
> balloon bursts, it comes back with the 'chute.
I think the inverted system again as ABORNET did would be best. But
possibly with one change, instead of the main chute being under the
payload, have that be only a tiny drogue chute, that after PBC is all
over with and the payload is falling in the correct manner then it
deploys the main chute.
> I can include a temperature and relative humidity sensor with the
> BalloonSat Mini (maybe a BalloonSat Easy since the sensor is I2C).
> The extra data ought to be useful. The BalloonSat flight computer
> digitizes to 10 bits of resolution. That's 0.5 deg C resolution and
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> Joe WB9SBD

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> The Original Rolling Ball Clock
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> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>> This series has I2C digital output and either 3.3 or 5.0 V for
>> supply voltage:
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>> Since we are measuring very small pressure differentials, I would
>> suggest the smallest range available (the +/-5 in H2O version
>> measures +/-0.18 psi). Mouser has at least some of these sensor
>> types in stock. The documentation is somewhat inconsistent, but
>> with about 12-bit (4096 count) resolution, the resolution is
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>> <mailto:GPSL@yahoogroups.com
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>> From: GPSL@yahoogroups.com
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>> File : /dynamicviscositystandardatmosphere.jpg
>> Uploaded by : basedepauw
>> <basedepauw@... <mailto:basedepauw@...>>
>> Description : Here is a plot of the
>> dynamic viscosity versus altitude
>> according to the standard atmosphere
>>
>> You can access this file at the URL:
>> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>>
>>
>> To learn more about file sharing for your
>> group, please visit:
>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>>
>> Regards,
>>
>> basedepauw <basedepauw@...
>> <mailto:basedepauw@...>>
>>
>>
>>
>>
>>
>>
>>
>>
>>
>>
>>
>> --

>> Mike Manes mrmanes@...
>> <mailto:mrmanes@...> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not
>> more so."
>> A. Einstein
>>
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>>
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>> --
>> Onwards and Upwards,
>> Paul
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> --
> Onwards and Upwards,
> Paul
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>

8287. K6RPT-14 balloon didn□t shred up like my 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 14:38:04 UTC
From: k6rpt
Topic: 8287 Message: 8287

I just received an email with pictures of the balloon and payload from the property owner, looks like the balloon didn't shred up like my 1500g flights.

http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg

-Ron K6RPT

8288. Subject Line & Body Of Message Matching,,,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:02:49 UTC
From: Joe
Topic: 1529 Message: 8288
Attachments: 2 described; binary payloads are missing from this source WARC

You Know? I Propose something that we all should do, especially once the new groups are all laid out and finalized. Like this whole discussion shouldn't be happening on the GPSL list.

But to re name the subject lines when ever the body does not any longer match the subject line. Like this thread of messages haven't had anything at all to do with a file that was up-loaded to he group site.

I changed tyhe Subject Line To Match what is IN the Body of THIS message. Or at least the Main thought of the message.

Having a clear and detailed true subject line would be very nice. Yes?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 9:28 AM, Joe wrote:
>
> On 9/2/2010 9:17 AM, L. Paul Verhage wrote:
>> I've downloaded the datasheet and will order a few sensors this weekend.
> What Pressure Range did you order?
>> Cold could be a problem,
> Who had the cold bell jar if I remember someone had one.
>> but I don't know about running the sensor inside the near
>> spacecraft. I'm thinking that running a hose to the payload could
>> create issues.
> That is the problem. And other than what the ABORNET gang did I at
> this early morning moment, just don't see a safe alternative.
>> The sensor inside the balloon and a radio link would seem
>> conceptually simpler (but also colder as Joe mentioned). Joe,
>> what idea did you have in mind?
> Sadly none any better than the ARBORNET method. Does anyone know how
> the University of Minnesota gang did theirs? I know they ran some
> flights, but i never heard about the success of them or of any data
> that came from them.
>> I would be interested in gettng the experiment back.
> He he he don't we all!
>> I think we could tie the experiment to the load line so when the
>> balloon bursts, it comes back with the 'chute.
> I think the inverted system again as ABORNET did would be best. But
> possibly with one change, instead of the main chute being under the

> payload, have that be only a tiny drogue chute, that after PBC is all
> over with and the payload is falling in the correct manner then it
> deploys the main chute.
>> I can include a temperature and relative humidity sensor with the
>> BalloonSat Mini (maybe a BalloonSat Easy since the sensor is I2C).
>> The extra data ought to be useful. The BalloonSat flight computer
>> digitizes to 10 bits of resolution. That's 0.5 deg C resolution and
>> about 0.4% in RH.
>> Paul
>>
>> On Thu, Sep 2, 2010 at 9:07 AM, Joe <nss@...
>> <mailto:nss@...>> wrote:
>>
>> I think the cold is gonna possibly be a problem. But a flight
>> could always do it again like the Abornet gang did where the
>> balloon was right at the payload. and the sensor was inside nice
>> and toasty.
>>
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 9/2/2010 9:00 AM, Mark Conner wrote:
>>> This series has I2C digital output and either 3.3 or 5.0 V for
>>> supply voltage:
>>> http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0
>>>
>>> Since we are measuring very small pressure differentials, I
>>> would suggest the smallest range available (the +/-5 in H2O
>>> version measures +/-0.18 psi). Mouser has at least some of
>>> these sensor types in stock. The documentation is somewhat
>>> inconsistent, but with about 12-bit (4096 count) resolution, the
>>> resolution is about .0001 psi. The trouble might be that it's
>>> only good down to 0C calibrated and minimum operating temp is
>>> -20C. It may be hard to get one that's fully rated down to the
>>> temps we need, but maybe it's functional enough.
>>>
>>> 73 de Mark N9XTN
>>>
>>> On Thu, Sep 2, 2010 at 08:16, L. Paul Verhage <nearsys@...
>>> <mailto:nearsys@...>> wrote:
>>>
>>>
>>>
>>> This was making me think we need a small BalloonSat inside
>>> the balloon. The Xbee radio at Parallax is only $19 and has

>>> the range. I can donate a BalloonSat Mini to the cause.
>>> I have Xbee radio boards for robotics that will attach to
>>> the Mini. What kind of flight computer is in the payload?
>>> My BalloonSat Extreme will record GPS data and listen to the
>>> BalloonSat Mini inside the balloon.
>>> What pressure sensor is recommended?
>>> Paul
>>>
>>> On Wed, Sep 1, 2010 at 10:33 PM, Mark Conner
>>> <mconner1@... <mailto:mconner1@...>> wrote:
>>>
>>>
>>>
>>> A small logger right with the transducer might be the
>>> way to go. You'd need time hacks (easy enough) and
>>> could then time-sync the pressure values with GPS data
>>> on the main payload after recovery.
>>>
>>> There are some Honeywell pressure sensors that could
>>> have the required resolution but the extreme cold may
>>> ruin the calibration and make the values untrustworthy.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>> On Wed, Sep 1, 2010 at 21:38, Mike Manes
>>> <mrmanes@... <mailto:mrmanes@...>> wrote:
>>>
>>> I think Mike of ARBONET has figured out that the
>>> payload that reads
>>> that pressure transducer must be attached right to
>>> the balloon neck,
>>> thus obviating the normal balloon - lift line -
>>> parachute - payload
>>> order. Either that, or link the transducer data at
>>> the balloon
>>> down the string via a wireless link, e.g. Bluetooth.
>>> If the lift
>>> line were in the form of a rope ladder to eliminate
>>> twisting, a
>>> wired link could work - but what a mess to bring
>>> back on the 'chute
>>> apex on descent!
>>>
>>> 73 de Mike W5VSI
>>>
>>>
>>> On 9/1/2010 17:30, Mark Conner wrote:
>>>
>>>

>>>
>>> Nice work, Jerry. Now if we can relate lift to
>>> an ascent rate (accounting for
>>> drag changes due to Reynolds number) and have it
>>> model the flight's ascent
>>> rate, then you're on your way to talking me into
>>> the pressurization theory.
>>> It'd help even more if we can show that the
>>> level-off point for a smaller
>>> balloon isn't reached over typical altitudes.
>>>
>>> At first blush, a 0.01 in pressure differential
>>> is plausible to my mind.
>>>
>>> Now all we need is a well-calibrated and
>>> high-resolution psid gauge in a
>>> future balloon. Hmm......
>>>
>>> 73 de Mark N9XTN
>>>
>>> On Wed, Sep 1, 2010 at 17:02, Jerry Gable
>>> <jerrygable@... <mailto:jerrygable@...>
>>> <mailto:jerrygable@...
>>> <mailto:jerrygable@...>>> wrote:
>>>
>>>
>>>
>>> Looks like attachments are stripped. This is
>>> the link to the spreadsheet
>>> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>>>
>>>
>>> ---
>>> *From:* Jerry Gable <jerrygable@...
>>> <mailto:jerrygable@...>
>>> <mailto:jerrygable@...
>>> <mailto:jerrygable@...>>>
>>> *To:* GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>
>>>
>>> *Sent:* Wed, September 1, 2010 2:58:46 PM
>>> *Subject:* Re: [GPSL] New file uploaded to
>>> GPSL [1 Attachment]
>>>
>>> I have wanted to write yet another balloon
>>> lift calculator and this flight
>>> presented a question on why it slowed. I
>>> decided to see what the data

>>> looks like.
>>>
>>> I have attached a spreadsheet that calculates
>>> the free lift every 500ft
>>> using the US Standard Atmosphere 1976 as the
>>> basis.
>>>
>>> The one difference I did was add a pressure
>>> differential between the
>>> internal (helium pressure) and atmospheric
>>> pressure (Delta pressure inside
>>> balloon in PSI on spreadsheet) If you set
>>> this delta (blue cell) to 0 in
>>> the spreadsheet the lift is constant all the
>>> way up. If you set it to
>>> 0.01 psi it shows the lift dropping to 0 @
>>> 120,000 feet. If this delta
>>> pressure is very low for most of the flight
>>> but increases significantly
>>> near burst this curve would be even more
>>> dramatic.
>>>
>>> Let me know if you see anything wrong with
>>> this calculation.
>>>
>>>
>>> ---
>>> *From:* BASE <basedepauw@...
>>> <mailto:basedepauw@...>
>>> <mailto:basedepauw@...
>>> <mailto:basedepauw@...>>>
>>> *To:* GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>
>>>
>>> *Sent:* Wed, September 1, 2010 2:36:20 PM
>>> *Subject:* Re: [GPSL] New file uploaded to GPSL
>>>
>>> I've added a simple plot of the dynamic
>>> viscosity of the standard
>>> atmosphere on the files page. It is
>>> interesting to note the increase in
>>> the dynamic viscosity above 30 km.
>>>
>>> Since the Reynolds number is very small, the
>>> drag force on the balloon
>>> follows Stokes' Law. The increase in the
>>> dynamic viscosity will result in
>>> a decrease in the ascent velocity. This

>>> could be a contributing factor to
>>> the ascent profile of K6RPT-14 on Monday.
>>>
>>> Howard
>>>
>>> --- On *Wed, 9/1/10, GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>
>>> /<GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>>/* wrote:
>>>
>>>
>>> From: GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>
>>> <GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>>
>>>
>>> Subject: [GPSL] New file uploaded to GPSL
>>> To: GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>
>>> <mailto:GPSL@yahoogroups.com
>>> <mailto:GPSL@yahoogroups.com>>
>>>
>>> Date: Wednesday, September 1, 2010, 5:31 PM
>>>
>>>
>>> Hello,
>>>
>>> This email message is a notification to
>>> let you know that
>>> a file has been uploaded to the Files
>>> area of the GPSL
>>> group.
>>>
>>> File :
>>> /dynamicviscositystandardatmosphere.jpg
>>> Uploaded by : basedepauw
>>> <basedepauw@... <mailto:basedepauw@...>>
>>> Description : Here is a plot of the
>>> dynamic viscosity versus altitude
>>> according to the standard atmosphere
>>>
>>> You can access this file at the URL:

>>> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>>>
>>>
>>> To learn more about file sharing for your
>>> group, please visit:
>>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>>>
>>> Regards,
>>>
>>> basedepauw <basedepauw@...
>>> <mailto:basedepauw@...>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Mike Manes mrmanes@...
>>> <mailto:mrmanes@...> Tel: 303-979-4899
>>> "Things should be made as simple as possible, but
>>> not more so."
>>> A. Einstein
>>>
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>>> --
>>> Onwards and Upwards,
>>> Paul
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>> --
>> Onwards and Upwards,
>> Paul

8289. Re: [GPSL] K6RPT-14 balloon didn’t shred up like my 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:09:19 UTC
From: Joe
Topic: 8287 Message: 8289
Attachments: 1 described; binary payloads are missing from this source WARC

Interesting,

Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and
few 2000's that we have flown, we never ever get that much balloon back.

hmmmm? the Mystery Deepens!

The pinhole theory might fit into this too? That it got large enough at
the end to stretch open and slowly vent, (Caused the slowing of rise)
but then the continued stretching and it's defect gave a weak point for
a simple zipper tear to happen and one side of the balloon and it simply
un zipped and it really diddn't explode as usual. Also this may answer
why the max altitude was lower than expected because of the defect too.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 9:38 AM, k6rpt wrote:
> I just received an email with pictures of the balloon and payload from the property
owner, looks like the balloon didn't shred up like my 1500g flights.
>
> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

8290. Re: [GPSL] K6RPT-14 balloon didn’t shred up like my 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:15:49 UTC
From: Keith Kaiser
Topic: 8287 Message: 8290

I think the difference is the maker of the balloon. One has a hard neck on it (Kaymont?) the other doesn't. This one shreds to nothing in our experice but the other brand (Kaysam) without the hard neck does not.

Why I don't know but this is what we have observed.

On Sep 2, 2010, at 10:09 AM, Joe wrote:

> Interesting,
>
> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and few 2000's that we have flown, we never ever get that much balloon back.
>
> hmmmm? the Mystery Deepens!
>
> The pinhole theory might fit into this too? That it got large enough at the end to stretch open and slowly vent, (Caused the slowing of rise) but then the continued stretching and it's defect gave a weak point for a simple zipper tear to happen and one side of the balloon and it simply un zipped and it really diddn't explode as usual. Also this may answer why the max altitude was lower than expected because of the defect too.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 9:38 AM, k6rpt wrote:
>>
>> I just received an email with pictures of the balloon and payload from the property owner, looks like the balloon didn't shred up like my 1500g flights.
>>
>> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>>
>> -Ron K6RPT
>>
>>
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>>

>>
>>

8291. Re: [GPSL] K6RPT-14 balloon didn’t shred up like m y 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:24:01 UTC
From: Mark Conner
Topic: 8287 Message: 8291

I've had it happen both ways. The old Kaysams with the cardboard joiner
have ripped off clean right at that joint and I've had Kaymonts come back
with 80% still attached to the neck, vice versa too.

73 de Mark N9XTN

On Thu, Sep 2, 2010 at 10:15, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I think the difference is the maker of the balloon. One has a hard neck on
> it (Kaymont?) the other doesn't. This one shreds to nothing in our experice
> but the other brand (Kaysam) without the hard neck does not.
>
> Why I don't know but this is what we have observed.
>
> On Sep 2, 2010, at 10:09 AM, Joe wrote:
>
> Interesting,
>
> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and few
> 2000's that we have flown, we never ever get that much balloon back.
>
> hmmmm? the Mystery Deepens!
>
> The pinhole theory might fit into this too? That it got large enough at
> the end to stretch open and slowly vent, (Caused the slowing of rise) but
> then the continued stretching and it's defect gave a weak point for a simple
> zipper tear to happen and one side of the balloon and it simply un zipped
> and it really diddn't explode as usual. Also this may answer why the max
> altitude was lower than expected because of the defect too.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 9:38 AM, k6rpt wrote:
>
> I just received an email with pictures of the balloon and payload from the property
owner, looks like the balloon didn't shred up like my 1500g flights.
> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>

> -Ron K6RPT
>
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> Yahoo! Groups Links
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8292. Maker Of Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:35:27 UTC
From: Joe
Topic: 8287 Message: 8292
Attachments: 1 described; binary payloads are missing from this source WARC

Anything from Kaysam has to be at least a decade old if not more
true? And they had that hard ring in the neck. I never ever knew what
the purpose of was.

Kaymont, is actually a Totex balloon Made in japan. kaynont is just
their Distributor.

Anything to do with Kaysam i ignore, I flew maybe dozen of their
balloons and was dissapointed on their performance on every flight. Yes
some were surplus, and a few were new too.

Kaysam had the ring and hard neck, Kaymont (Totex) does not.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 10:15 AM, Keith Kaiser wrote:
>
>
> I think the difference is the maker of the balloon. One has a hard
> neck on it (Kaymont?) the other doesn't. This one shreds to nothing in
> our experice but the other brand (Kaysam) without the hard neck does not.
>
> Why I don't know but this is what we have observed.
>
> On Sep 2, 2010, at 10:09 AM, Joe wrote:
>
>> Interesting,
>>
>> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's
>> and few 2000's that we have flown, we never ever get that much
>> balloon back.
>>
>> hmmmm? the Mystery Deepens!
>>
>> The pinhole theory might fit into this too? That it got large enough
>> at the end to stretch open and slowly vent, (Caused the slowing of
>> rise) but then the continued stretching and it's defect gave a weak
>> point for a simple zipper tear to happen and one side of the balloon
>> and it simply un zipped and it really diddn't explode as usual. Also
>> this may answer why the max altitude was lower than expected because

>> of the defect too.
>>
>> Joe WB9SBD
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 9/2/2010 9:38 AM, k6rpt wrote:
>>> I just received an email with pictures of the balloon and payload from the property owner, looks like the balloon didn't shred up like my 1500g flights.
>>>
>>> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>>>
>>> -Ron K6RPT
>>>
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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>

8293. Re: [GPSL] Maker Of Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:44:30 UTC
From: L. Paul Verhage
Topic: 8287 Message: 8293
Attachments: 1 described; binary payloads are missing from this source WARC

We don't have much choice when it comes to balloons though, do we. A few months ago I looked into those balloons from China and they turned out to be pure latex (not neoprene or chloroprene which is a mix of latex and neoprene). They were very expensive, even in large batches.

Paul "I'm beginning to look at garbage bags in a new light" Verhage

On Thu, Sep 2, 2010 at 10:35 AM, Joe <nss@...> wrote:

> Anything from Kaysam has to be at least a decade old if not more true? And
> they had that hard ring in the neck. I never ever knew what the purpose of
> was.
>
> Kaymont, is actually a Totex balloon Made in japan. kaynont is just their
> Distributor.
>
> Anything to do with Kaysam i ignore, I flew maybe dozen of their balloons
> and was dissapointed on their performance on every flight. Yes some were
> surplus, and a few were new too.
>
> Kaysam had the ring and hard neck, Kaymont (Totex) does not.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 10:15 AM, Keith Kaiser wrote:
>
> I think the difference is the maker of the balloon. One has a hard neck on
> it (Kaymont?) the other doesn't. This one shreds to nothing in our experice
> but the other brand (Kaysam) without the hard neck does not.
>
> Why I don't know but this is what we have observed.
>
> On Sep 2, 2010, at 10:09 AM, Joe wrote:
>
> Interesting,
>
> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and few
> 2000's that we have flown, we never ever get that much balloon back.
>
> hmmmm? the Mystery Deepens!

>
> The pinhole theory might fit into this too? That it got large enough at
> the end to stretch open and slowly vent, (Caused the slowing of rise) but
> then the continued stretching and it's defect gave a weak point for a simple
> zipper tear to happen and one side of the balloon and it simply un zipped
> and it really diddn't explode as usual. Also this may answer why the max
> altitude was lower than expected because of the defect too.
>
> Joe WB9SBD
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 9/2/2010 9:38 AM, k6rpt wrote:
>
> I just received an email with pictures of the balloon and payload from the property
owner, looks like the balloon didn't shred up like my 1500g flights.
> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>
> -Ron K6RPT
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8294. Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:50:36 UTC
From: BASE
Topic: 8294 Message: 8294

Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.

The following link shows how James Flaten's students did it at Minnesota.

http://www.taylor.edu/dotAsset/177043.pdf

I know that Taylor partially inflates their balloons before inserting the sensor stick.

Howard

8295. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 15:54:05 UTC
From: L. Paul Verhage
Topic: 8294 Message: 8295

In June 2009 I attended a launch by Dr. Flaten. His students attached the sensor to a pole that was stuck inside the balloon. I thought for sure it would poke and burst the balloon, but nope, they knew exactly what they were doing. The pole kept the sensor somewhere near the center of the balloon's volume.

Paul

On Thu, Sep 2, 2010 at 10:50 AM, BASE <basedepauw@...> wrote:

> Minnesota and Taylor have both flown sensors inside the balloon. Taylor
> has done it many times.
>
> The following link shows how James Flaten's students did it at Minnesota.
>
> http://www.taylor.edu/dotAsset/177043.pdf
>
>
> I know that Taylor partially inflates their balloons before inserting the
> sensor stick.
>
>
> Howard
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8296. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:01:58 UTC
From: Joe
Topic: 8294 Message: 8296
Attachments: 1 described; binary payloads are missing from this source WARC

I just looked at that PDF, and it isn't what we need.

It is a simple pressure ambient pressure. What numbers we need are
differential pressure.

Not what the pressure is inside the balloon. But what the difference is
between inside and outside the balloon.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 10:50 AM, BASE wrote:
> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many
times.
>
> The following link shows how James Flaten's students did it at Minnesota.
>
> http://www.taylor.edu/dotAsset/177043.pdf
>
>
> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>
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> Howard
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> Yahoo! Groups Links
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8297. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:07:55 UTC
From: BASE
Topic: 8294 Message: 8297

I also found a paper that describes the Taylor sensor rod (see pages 26 and 27):
http://www.taylor.edu/dotAsset/177037.pdf
Howard

--- On Thu, 9/2/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
To: GPSL@yahoogroups.com
Date: Thursday, September 2, 2010, 11:54 AM

In June 2009 I attended a launch by Dr. Flaten. His students attached the sensor to a pole that was stuck inside the balloon. I thought for sure it would poke and burst the balloon, but nope, they knew exactly what they were doing. The pole kept the sensor somewhere near the center of the balloon's volume.

Paul

On Thu, Sep 2, 2010 at 10:50 AM, BASE <basedepauw@...> wrote:

Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.

The following link shows how James Flaten's students did it at Minnesota.

http://www.taylor.edu/dotAsset/177043.pdf

I know that Taylor partially inflates their balloons before inserting the sensor stick.

Howard

Yahoo! Groups Links

   (Yahoo! ID required)

--
Onwards and Upwards,
Paul

8298. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:08:46 UTC
From: Mark Conner
Topic: 8294 Message: 8298
Attachments: 1 described; binary payloads are missing from this source WARC

For the pressure measurements, I was thinking of a PVC pipe the same diameter as the ID of the balloon neck and putting all the sensors in that. Bottom would be capped with a hole open to atmosphere for ambient readings, top would be sealed except for short hose to measure internal pressure. Put batteries, sensor, radio or logger inside PVC pipe. Place an eyebolt in cap on bottom (nut/washer, then epoxy over?) to attach load line. Zip-tie neck onto pipe, but you'd need a ridge or groove on the pipe to prevent pipe from pulling out of neck (or a non-skid coating on outside of pipe).

73 de Mark N9XTN

On Thu, Sep 2, 2010 at 11:01, Joe <nss@...> wrote:

> I just looked at that PDF, and it isn't what we need.
>
> It is a simple pressure ambient pressure. What numbers we need are
> differential pressure.
>
> Not what the pressure is inside the balloon. But what the difference is
> between inside and outside the balloon.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 10:50 AM, BASE wrote:
>
> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
>
> The following link shows how James Flaten's students did it at Minnesota.
> http://www.taylor.edu/dotAsset/177043.pdf
>
>
> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>
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> Howard
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> Yahoo! Groups Links
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8299. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:11:20 UTC
From: BASE
Topic: 8294 Message: 8299
Attachments: 1 described; binary payloads are missing from this source WARC

The pdf flies describe how the sensors are mounted inside the balloon. Of course, to do a differential pressure you would use a different sensor with one port inside the balloon and the other port outside of the balloon.
Howard

--- On Thu, 9/2/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
To: GPSL@yahoogroups.com
Date: Thursday, September 2, 2010, 12:01 PM

I just looked at that PDF, and it isn't what we need.

It is a simple pressure ambient pressure. What numbers we need are
differential pressure.

Not what the pressure is inside the balloon. But what the
difference is between inside and outside the balloon.

Joe WB9SBD

The Original Rolling
Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 9/2/2010 10:50 AM, BASE wrote:

Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.

The following link shows how James Flaten's students did it at Minnesota.

http://www.taylor.edu/dotAsset/177043.pdf

I know that Taylor partially inflates their balloons before inserting the sensor stick.

Howard

Yahoo! Groups Links

8300. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:13:51 UTC
From: Jerry Gable
Topic: 8294 Message: 8300

But they do show the temperature inside the balloon and it doesn't look out of line with the outside temperature.

Differential pressure and temperature would be ideal.

_____
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 9:01:58 AM
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon

I just looked at that PDF, and it isn't what we need.

It is a simple pressure ambient pressure. What numbers we need are differential pressure.

Not what the pressure is inside the balloon. But what the difference is between inside and outside the balloon.

Joe WB9SBD

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 10:50 AM, BASE wrote:
Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
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>The following link shows how James Flaten's students did it at Minnesota.
>
>http://www.taylor.edu/dotAsset/177043.pdf
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>
>I know that Taylor partially inflates their balloons before inserting the sensor
>stick.
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>Howard
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>Yahoo! Groups Links
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8301. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:20:41 UTC
From: Joe
Topic: 8294 Message: 8301
Attachments: 2 described; binary payloads are missing from this source WARC

I never use Zip Ties. the small amount of weight of a stainless worm drive hose clamp far out strips the extra weight it has and get the super tight that the hose clamp can provide.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 11:08 AM, Mark Conner wrote:
>
>
> For the pressure measurements, I was thinking of a PVC pipe the same
> diameter as the ID of the balloon neck and putting all the sensors in
> that. Bottom would be capped with a hole open to atmosphere for
> ambient readings, top would be sealed except for short hose to measure
> internal pressure. Put batteries, sensor, radio or logger inside PVC
> pipe. Place an eyebolt in cap on bottom (nut/washer, then epoxy
> over?) to attach load line. Zip-tie neck onto pipe, but you'd need a
> ridge or groove on the pipe to prevent pipe from pulling out of neck
> (or a non-skid coating on outside of pipe).
>
> 73 de Mark N9XTN
>
> On Thu, Sep 2, 2010 at 11:01, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> I just looked at that PDF, and it isn't what we need.
>
> It is a simple pressure ambient pressure. What numbers we need
> are differential pressure.
>
> Not what the pressure is inside the balloon. But what the
> difference is between inside and outside the balloon.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 10:50 AM, BASE wrote:

>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
>>
>> The following link shows how James Flaten's students did it at Minnesota.
>>
>> http://www.taylor.edu/dotAsset/177043.pdf
>>
>>
>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
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>> Howard
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>> Yahoo! Groups Links
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8302. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 16:21:41 UTC
From: Joe
Topic: 8294 Message: 8302
Attachments: 1 described; binary payloads are missing from this source WARC

And temperature does indeed effect lift greatly.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 11:13 AM, Jerry Gable wrote:
>
>
> But they do show the temperature inside the balloon and it doesn't
> look out of line with the outside temperature.
>
> Differential pressure and temperature would be ideal.
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 2, 2010 9:01:58 AM
> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>
> I just looked at that PDF, and it isn't what we need.
>
> It is a simple pressure ambient pressure. What numbers we need are
> differential pressure.
>
> Not what the pressure is inside the balloon. But what the difference
> is between inside and outside the balloon.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 9/2/2010 10:50 AM, BASE wrote:
>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many
times.
>>
>> The following link shows how James Flaten's students did it at Minnesota.
>>
>> http://www.taylor.edu/dotAsset/177043.pdf

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>>
>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>>
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>> Howard
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>> Yahoo! Groups Links
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8303. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 17:19:23 UTC
From: Michael Willett
Topic: 8294 Message: 8303
Attachments: 1 described; binary payloads are missing from this source WARC

To measure pressure inside the balloon, you can do it at least two ways:

1) A differential pressure sensor inside the balloon with one side capped off; this presents a known relative value (the captive part) as a constant of which you compare the variable pressure of interest inside the balloon. This is the way to go with the rod sensor mentioned by Howard, where we want to measure the change in pressure inside the balloon near the center. This will reflect the change in He pressure in a captive environment with the variable being the compression created by the latex.

2) A standard pressure sensor as shown in the ARBONET presentation at GPSL-2010 and flown in 2009. This measures the difference in pressure at the neck of the balloon against the ambient outside pressure plus the compression provided by the balloon.

Outside of impurities in the He and the point of measurement, the two should track relative to each other. The heavier impurities will show up in the neck of the balloon (standard air caught inside the envelope prior to inflation) and will show a lower reading overall than the unit sensing the air in the middle or top of the balloon.

I would like to see the results if we flew both. That would make for more gray-matter grinding discussions!

For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an analog output that is already corrected over a standard temperature range, and runs +/- for those areas we may see actual vacuum in the neck.

--Michael
K5NOT

On 9/2/2010 11:21 AM, Joe wrote:
> And temperature does indeed effect lift greatly.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>> But they do show the temperature inside the balloon and it doesn't
>> look out of line with the outside temperature.
>>

>> Differential pressure and temperature would be ideal.
>>
>> ---
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Thu, September 2, 2010 9:01:58 AM
>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>
>> I just looked at that PDF, and it isn't what we need.
>>
>> It is a simple pressure ambient pressure. What numbers we need are
>> differential pressure.
>>
>> Not what the pressure is inside the balloon. But what the difference
>> is between inside and outside the balloon.
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>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 9/2/2010 10:50 AM, BASE wrote:
>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it
many times.
>>>
>>> The following link shows how James Flaten's students did it at Minnesota.
>>>
>>> http://www.taylor.edu/dotAsset/177043.pdf
>>>
>>>
>>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>>>
>>>
>>> Howard
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>>> Yahoo! Groups Links
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8304. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 17:22:57 UTC
From: L. Paul Verhage
Topic: 8294 Message: 8304
Attachments: 1 described; binary payloads are missing from this source WARC

What model is your pressure sensor and where did you get it?

Sounds like we should fly two BalloonSats inside the balloon and interesting observation about "heavier" air settling into the neck of the balloon.

On Thu, Sep 2, 2010 at 12:19 PM, Michael Willett <mw@...> wrote:

>
> To measure pressure inside the balloon, you can do it at least two ways:
>
> 1) A differential pressure sensor inside the balloon with one side capped
> off; this presents a known relative value (the captive part) as a constant
> of which you compare the variable pressure of interest inside the balloon.
> This is the way to go with the rod sensor mentioned by Howard, where we want
> to measure the change in pressure inside the balloon near the center. This
> will reflect the change in He pressure in a captive environment with the
> variable being the compression created by the latex.
>
> 2) A standard pressure sensor as shown in the ARBONET presentation at
> GPSL-2010 and flown in 2009. This measures the difference in pressure at the
> neck of the balloon against the ambient outside pressure plus the
> compression provided by the balloon.
>
> Outside of impurities in the He and the point of measurement, the two
> should track relative to each other. The heavier impurities will show up in
> the neck of the balloon (standard air caught inside the envelope prior to
> inflation) and will show a lower reading overall than the unit sensing the
> air in the middle or top of the balloon.
>
> I would like to see the results if we flew both. That would make for more
> gray-matter grinding discussions!
>
> For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an
> analog output that is already corrected over a standard temperature range,
> and runs +/- for those areas we may see actual vacuum in the neck.
>
> --Michael
> K5NOT
>
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>
> On 9/2/2010 11:21 AM, Joe wrote:
>
> And temperature does indeed effect lift greatly.

>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>
> But they do show the temperature inside the balloon and it doesn't look
> out of line with the outside temperature.
>
> Differential pressure and temperature would be ideal.
>
> ------------------------------
> *From:* Joe <nss@...> <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 2, 2010 9:01:58 AM
> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>
> I just looked at that PDF, and it isn't what we need.
>
> It is a simple pressure ambient pressure. What numbers we need are
> differential pressure.
>
> Not what the pressure is inside the balloon. But what the difference is
> between inside and outside the balloon.
>
> Joe WB9SBD
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> The Original Rolling Ball Clock
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> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 9/2/2010 10:50 AM, BASE wrote:
>
> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many
times.
>
> The following link shows how James Flaten's students did it at Minnesota.
> http://www.taylor.edu/dotAsset/177043.pdf
>
>
> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>
>
> Howard
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8305. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 17:34:02 UTC
From: Jerry Gable
Topic: 8294 Message: 8305

If we are primarily interested in the differential pressure as the balloon approaches burst, does it make sense to test a few on the ground with just an air inflation? Might be interesting to do a setup with a high speed camera to watch the burst.

Jerry

_____
From: Michael Willett <mw@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 10:19:23 AM
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon

To measure pressure inside the balloon, you can do it at least two ways:

1) A differential pressure sensor inside the balloon with one side capped off; this presents a known relative value (the captive part) as a constant of which you compare the variable pressure of interest inside the balloon. This is the way to go with the rod sensor mentioned by Howard, where we want to measure the change in pressure inside the balloon near the center. This will reflect the change in He pressure in a captive environment with the variable being the compression created by the latex.

2) A standard pressure sensor as shown in the ARBONET presentation at GPSL-2010 and flown in 2009. This measures the difference in pressure at the neck of the balloon against the ambient outside pressure plus the compression provided by the balloon.

Outside of impurities in the He and the point of measurement, the two should track relative to each other. The heavier impurities will show up in the neck of the balloon (standard air caught inside the envelope prior to inflation) and will show a lower reading overall than the unit sensing the air in the middle or top of the balloon.

I would like to see the results if we flew both. That would make for more gray-matter grinding discussions!

For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an analog output that is already corrected over a standard temperature range, and runs +/- for those areas we may see actual vacuum in the neck.

--Michael
K5NOT

On 9/2/2010 11:21 AM, Joe wrote:
And temperature does indeed effect lift greatly.
>

>Joe WB9SBD
>
>Sig
>The Original Rolling Ball Clock
>Idle Tyme
>Idle-Tyme.com
>http://www.idle-tyme.com
>
>On 9/2/2010 11:13 AM, Jerry Gable wrote:
>
>>But they do show the temperature inside the balloon and it doesn't
>>look out of line with the outside temperature.
>>
>>Differential pressure and temperature would be ideal.
>>
>>
>>
>>

From: Joe <nss@...>
>>To: GPSL@yahoogroups.com
>>Sent: Thu, September 2, 2010 9:01:58 AM
>>Subject: Re: [GPSL] Pressure and temperature sensors inside
>>balloon
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>>I just looked at that PDF, and it isn't what we need.
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>>It is a simple pressure ambient pressure. What numbers we need
>>are differential pressure.
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>>Not what the pressure is inside the balloon. But what the
>>difference is between inside and outside the balloon.
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>>Joe WB9SBD
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>>On 9/2/2010 10:50 AM, BASE wrote:
>>Minnesota and Taylor have both flown sensors inside the balloon. Taylor has
>>done it many times.
>>>
>>>The following link shows how James Flaten's students did it at Minnesota.
>>>
>>>http://www.taylor.edu/dotAsset/177043.pdf I know that Taylor partially
>>>inflates their balloons before inserting the sensor stick. Howard
>>>

8306. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 20:28:25 UTC
From: Jerry Gable
Topic: 1529 Message: 8306

All the discussion on pressure at burst, I never thought to check the manufacturer's data. I went to the Kaymont website and they do list a burst pressure.

For the 3000 gram balloon it is 3.7 hectopascals 0.054 PSI.
For the 1500 gram balloon it is 6.3hPa or 0.091 PSI

So it looks like my 0.01 SWAG was actually quite low. Now it would be good to verify that number and come up with a starting point and shape of the curve.

8307. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 20:32:45 UTC
From: L. Paul Verhage
Topic: 1529 Message: 8307

Smaller balloon, larger pressure. Perhaps this is due to its tighter curvature directing more force towards the center of the balloon. Same reason that it's more difficult to begin blowing up a balloon than it is to continue blowing it up.

Does that also tell us that a smaller balloon is more likely to go neutrally bouyant?

Paul

On Thu, Sep 2, 2010 at 3:28 PM, Jerry Gable <jerrygable@...> wrote:

>
>
> All the discussion on pressure at burst, I never thought to check the
> manufacturer's data. I went to the Kaymont website and they do list a burst
> pressure.
>
> For the 3000 gram balloon it is 3.7 hectopascals 0.054 PSI.
> For the 1500 gram balloon it is 6.3hPa or 0.091 PSI
>
> So it looks like my 0.01 SWAG was actually quite low. Now it would be good
> to verify that number and come up with a starting point and shape of the
> curve.
>
>
>
>

--
Onwards and Upwards,
Paul

8308. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 20:51:20 UTC
From: Joe
Topic: 1529 Message: 8308
Attachments: 1 described; binary payloads are missing from this source WARC

No,

People keep doing that.

The numbers on the site is not the differential pressure. it is the
atmospheric pressure that the balloon will be at when it bursts.

It's just another way to state the bursting altitude.

Which of course is also meaningless because burst altitude all depends
on the amount of gas mainly placed in the balloon.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 3:28 PM, Jerry Gable wrote:
>
>
> All the discussion on pressure at burst, I never thought to check the
> manufacturer's data. I went to the Kaymont website and they do list a
> burst pressure.
>
> For the 3000 gram balloon it is 3.7 hectopascals 0.054 PSI.
> For the 1500 gram balloon it is 6.3hPa or 0.091 PSI
>
> So it looks like my 0.01 SWAG was actually quite low. Now it would be
> good to verify that number and come up with a starting point and shape
> of the curve.
>
>
>

8309. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 21:09:03 UTC
From: Jerry Gable
Topic: 1529 Message: 8309

Well it was a fun idea at least. The numbers do line up with their listed burst altitude.

Back to the drawing board.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Jerry Gable <jerrygable@...>
Sent: Thu, September 2, 2010 1:51:20 PM
Subject: Re: [GPSL] New file uploaded to GPSL

No,

People keep doing that.

The numbers on the site is not the differential pressure. it is the atmospheric pressure that the balloon will be at when it bursts.

It's just another way to state the bursting altitude.

Which of course is also meaningless because burst altitude all depends on the amount of gas mainly placed in the balloon.

Joe WB9SBD

Sig
The Original Rolling Ball Clock
Idle Tyme
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http://www.idle-tyme.com

On 9/2/2010 3:28 PM, Jerry Gable wrote:

>All the discussion on pressure at burst, I never thought to check the
>manufacturer's data. I went to the Kaymont website and they do list a
>burst pressure.
>
>For the 3000 gram balloon it is 3.7 hectopascals 0.054 PSI.
>For the 1500 gram balloon it is 6.3hPa or 0.091 PSI
>
>So it looks like my 0.01 SWAG was actually quite low. Now it would be
>good to verify that number and come up with a starting point and shape
>of the curve.
>

8310. K6RPT-14 Balloon Could Not Have Pressurized

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 21:35:57 UTC
From: Joe
Topic: 8310 Message: 8310
Attachments: 1 described; binary payloads are missing from this source WARC

I have been crunching some numbers, I was going to see if this flight began to pressurize, and what pressure it may have gotten to when it gave up, but after crunching this first set of numbers I honestly do not think this balloon got even close to start to pressurize when it ended it's flight.

Anyone care to double check my math below?

==========
Balloon Type and weight, Totex TA-3000 *3000* gram weight
Nozzle Lift *1080* Grams

Total system lift, balloon and nozzle Lift
(the amount of lift needed to be provided by the lifting gas) *4080* grams.

At Sea level 1 cubic meter of HE weighs *178.6* Grams.
At Sea Level 1 Cubic Meter of "Air" weighs *1225* Grams.

So, 1 cubic meter of HE is *1046.4* Grams lighter than 1 cubic meter of "Air"

So taking the needed amount of lift as seen above (*4080* grams)
Divided by the amount of lift that 1 cubic meter of HE provides, will give you the amount of HE needed for the flight.

4080 / 1046.4 = *3.899* cubic meters.

To confirm the numbers,,

3.899 cubic meters of "Air" weighs *4776* Grams and
3.899 cubic meters of HE weighs *695* Grams.

"Air" weight minus HE weight =

4776 - 695 = 4081 Grams (Close enough for needed system flight)
==========
TA-3000 Balloon Volume at Burst *1150* cubic meters.

Assuming the data from above is correct, I calculate that my estimated burst should have been at *129500* feet.

==========

Now looking at that flight rate of climb chart that someone made, it is very obvious that something very drastic happened at right about *115 thousand* feet.

Was the balloon almost full? And It has started to pressurize?

Nope not a chance.

The Initial *3.899* cubic meters at sea level of HE, has expanded at *115,000* feet to only *582* cubic meters!

It is just barely past being half full. So I think there is no way this could have started to pressurize.

Now what happened? Is anyone's guess.

I'm leaning towards a minor defect, that started to vent gas, and as it lasted longer and longer it got bigger and bigger, till it zippered up the whole side of the balloon, which also gives good evidence of the large amount or remaining balloon. Where instead of literally exploding like we all have seen, it more just split up one side like spandex on some 500 pound woman at Wal*Mart

Joe WB9SBD
Near Space Sciences
--

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http://www.idle-tyme.com

8311. SSOK Jan 2000 floater

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 21:54:30 UTC
From: Mark Conner
Topic: 8311 Message: 8311

http://showcase.netins.net/web/wallio/SSOK.html

I'm pretty sure this was a 3000g balloon, but the payload was probably 1 lb or a bit more. I can't recall if this used hydrogen or helium. Anyway, it too slowed its ascent rate way down and achieved near floating conditions, but Pete's lasted 2.5 hours instead of bursting almost immediately after ascent stopped. Pete's flight was using a pre-WAAS GPS, so altitudes would be less accurate.

Bill, didn't one of your earlier floaters (one of them without the intentional hole in the plug) do roughly the same thing before sunset?

I'm still thinking feature (physical cause) rather than frequent bug (partial failure of some sort). Now to figure out what it is.....

73 de Mark N9XTN

8312. Re: [GPSL] SSOK Jan 2000 floater

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:17:30 UTC
From: Joe
Topic: 8311 Message: 8312
Attachments: 1 described; binary payloads are missing from this source WARC

Then again we had our floater that floated all day and into the
evening, where we launched at sun up. from here in southwest Wisconsin,
it went all day, and flew into indiana, then came back to fly over Elgin
,IL. and pop at sundown. And land in the NW suburbs of Chicago.

This was way in the pre any GPS days, all was triangulation, for
location, and who was hearing it from how far away to determine altitude.

And all data was relayed via the 40 meter tracking net.

what a blast!

Joe WB9SBD

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Idle-Tyme.com
http://www.idle-tyme.com

On 9/2/2010 4:54 PM, Mark Conner wrote:
>
>
> http://showcase.netins.net/web/wallio/SSOK.html
>
> I'm pretty sure this was a 3000g balloon, but the payload was probably
> 1 lb or a bit more. I can't recall if this used hydrogen or helium.
> Anyway, it too slowed its ascent rate way down and achieved near
> floating conditions, but Pete's lasted 2.5 hours instead of bursting
> almost immediately after ascent stopped. Pete's flight was using a
> pre-WAAS GPS, so altitudes would be less accurate.
>
> Bill, didn't one of your earlier floaters (one of them without the
> intentional hole in the plug) do roughly the same thing before sunset?
>
> I'm still thinking feature (physical cause) rather than frequent bug
> (partial failure of some sort). Now to figure out what it is........
>
> 73 de Mark N9XTN
>
>
>
>

8313. Re: [GPSL] K6RPT-14 Balloon Could Not Have Pressurized

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:27:48 UTC
From: Jerry Gable
Topic: 8310 Message: 8313

So if you set the delta pressure to 0 on my spreadsheet it will show very close to the same numbers that you have.

I take it you don't believe the inside vs outside pressure is real or affects the lift to the extent needed to explain this balloon. In reality we will probably never know on this balloon and one hypothesis is as good as the next. I guess i will have to see if I can find any more evidence for my hypothesis :-)

One thing I noticed was the ascent rate on the chart. It looks like the first 40K feet was done in 45 minutes, 80K in 90 minutes. 889 fpm seems like a lot faster than the expected.

Does that seem within the range expected from the free lift given?

Also, what kind of burst altitude (or volume) tolerance is seen on these balloons?

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 2:35:57 PM
Subject: [GPSL] K6RPT-14 Balloon Could Not Have Pressurized

I have been crunching some numbers, I was going to see if this flight began to pressurize, and what pressure it may have gotten to when it gave up, but after crunching this first set of numbers I honestly do not think this balloon got even close to start to pressurize when it ended it's flight.

Anyone care to double check my math below?

==========

Balloon Type and weight, Totex TA-3000 3000 gram weight
Nozzle Lift 1080 Grams

Total system lift, balloon and nozzle Lift
(the amount of lift needed to be provided by the lifting gas) 4080 grams.

At Sea level 1 cubic meter of HE weighs 178.6 Grams.
At Sea Level 1 Cubic Meter of "Air" weighs 1225 Grams.

So, 1 cubic meter of HE is 1046.4 Grams lighter than 1 cubic meter of "Air"

So taking the needed amount of lift as seen above (4080 grams) Divided by the amount of lift that 1 cubic meter of HE provides, will give you the amount of HE needed for the flight.

4080 / 1046.4 = 3.899 cubic meters.

To confirm the numbers,,

3.899 cubic meters of "Air" weighs 4776 Grams and
3.899 cubic meters of HE weighs 695 Grams.

"Air" weight minus HE weight =

4776 - 695 = 4081 Grams (Close enough for needed system flight)
==========
TA-3000 Balloon Volume at Burst 1150 cubic meters.

Assuming the data from above is correct, I calculate that my estimated burst should have been at 129500 feet.

==========

Now looking at that flight rate of climb chart that someone made, it is very obvious that something very drastic happened at right about 115 thousand feet.

Was the balloon almost full? And It has started to pressurize?

Nope not a chance.

The Initial 3.899 cubic meters at sea level of HE, has expanded at 115,000 feet to only 582 cubic meters!

It is just barely past being half full. So I think there is no way this could have started to pressurize.

Now what happened? Is anyone's guess.

I'm leaning towards a minor defect, that started to vent gas, and as it lasted longer and longer it got bigger and bigger, till it zippered up the whole side of the balloon, which also gives good evidence of the large amount or remaining balloon. Where instead of literally exploding like we all have seen, it more just split up one side like spandex on some 500 pound woman at Wal*Mart

Joe WB9SBD
Near Space Sciences

--
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8314. Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:34:33 UTC
From: Tim
Topic: 8311 Message: 8314

>
>I am looking to purchase a hand held radio capable of APRS for my son Brenden
>KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for $430 plus GPS
>module, I am hoping for something a little less expensive. I have heard of them
>going for less on eBay. I was wondering what others on this list are using to
>track their payloads.
>
>
>Thanks,
>Tim KJ6HSX

8315. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:50:20 UTC
From: Jerry Gable
Topic: 8311 Message: 8315

I haven't used them but have you looked at the APRS trackers from Byonics or Big Red Bee? I am thinking about getting one as a backup tracker so I am interested how they worked out for other's.

Unless of course you are talking about the ground radio then never mind :)

http://www.bigredbee.com/
http://www.byonics.com/microtrak/mt8000fa.php

From: Tim <sarbresam@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 3:34:33 PM
Subject: [GPSL] Hand Held APRS

>
>I am looking to purchase a hand held radio capable of APRS for my son Brenden
>KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for $430 plus GPS
>module, I am hoping for something a little less expensive. I have heard of them
>going for less on eBay. I was wondering what others on this list are using to
>track their payloads.
>
>
>Thanks,
>Tim KJ6HSX

8316. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:53:44 UTC
From: Tim
Topic: 8311 Message: 8316

Yes, I am talking about tracking on the ground. Brenden is using the trackers from Byonics, Allen and Byron have been a great resource.

Tim

From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 3:50:20 PM
Subject: Re: [GPSL] Hand Held APRS

I haven't used them but have you looked at the APRS trackers from Byonics or Big Red Bee? I am thinking about getting one as a backup tracker so I am interested how they worked out for other's.

Unless of course you are talking about the ground radio then never mind :)

http://www.bigredbee.com/
http://www.byonics.com/microtrak/mt8000fa.php

From: Tim <sarbresam@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 3:34:33 PM
Subject: [GPSL] Hand Held APRS

>
>I am looking to purchase a hand held radio capable of APRS for my son Brenden
>KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for $430 plus GPS
>module, I am hoping for something a little less expensive. I have heard of them
>going for less on eBay. I was wondering what others on this list are using to
>track their payloads.
>
>
>Thanks,
>Tim KJ6HSX

8317. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-02 22:56:18 UTC
From: Pete Lilja
Topic: 8311 Message: 8317

You can occasionally find a Kenwood D7 on eBay or elsewhere which is a handheld radio with a built-in TNC to decode the packets from a balloons xmitter. You'll also need a GPS either connected directly or with which to use by hand entering the coordinates. Entering by hand is cumbersome but does work.

I really like the Argent Data <http://www.argentdata.com/catalog/> stuff. The OT2M with interface with a Garmin Nuvi 350 (that model only for the way you want it to work). In my balloons I have connected an Open Tracker + to an old handi-talkie and a GPS for reporting the balloon's position. On the ground I use both a Kenwood D7 as well as my Alinco DR-135 with an Argent Data T2-135<https://www.argentdata.com/catalog/product_info.php?cPath=22&products_id=55&osCsid=87a246f0261e9c593d5ea2a43a88382c>and
a Garmin Nuvi. The T2-135 is essentially an OT2M on a small board
that
interfaces with the digital side of the Alinco 2 meter radio. What's great for balloon recovery is that the Nuvi 350 plots the balloons position onscreen (but doesn't decode and display its altitude - the Kenwood D7 does, however) and you can use the Garmin navigation capabilities to find it.

I also have an Argent Data OT2M that just yesterday I configured for a fill-in digipeater here at home. I bring that up only because I really believe in the Argent stuff and first learned of it here by asking a similar question to yours. You will be happy with their products.

All that said keep in mind there is a pretty steep learning curve to APRS tracking and HABing. It's a helluva lot of fun but there is a lot to learn. HABing is seemingly simple - and it is in concept - but pulling off a flight is not as easy as it seems.

Oh, the Alinco DR-135 can be found new online for about $170 and the T2-135 board is an additional $75. Gamin Nuvi 350s are harder to find but out there if you look. Price has gone up in the last year or so as so many APRS guys are buying them up (or so I'm guessing). Oh, yeah - you'll also need a cable from Argent to connect the radio to the Nuvi. I don't recall which one it is now but it's on the web site.

Pete
KC0GPB

On Thu, Sep 2, 2010 at 5:34 PM, Tim <sarbresam@...> wrote:

>
>
>
> I am looking to purchase a hand held radio capable of APRS for my son
> Brenden KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for

> $430 plus GPS module, I am hoping for something a little less expensive. I
> have heard of them going for less on eBay. I was wondering what others on
> this list are using to track their payloads.
>
>
> Thanks,
>
> Tim KJ6HSX
>
>
>
>

8318. Re: [GPSL] K6RPT-14 Balloon Could Not Have Pressurized

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 01:52:53 UTC
From: Joe
Topic: 8310 Message: 8318
Attachments: 1 described; binary payloads are missing from this source WARC

See below,,

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http://www.idle-tyme.com

On 9/2/2010 5:27 PM, Jerry Gable wrote:
>
>
> So if you set the delta pressure to 0 on my spreadsheet it will show
> very close to the same numbers that you have.
Yup and the lift is flatline across the flight as it should be.

I quite don't understand the massive curve when there is a delta
pressure, of the pressure is a constant 0.01 psi through the flight,
shouldn't the amount of compressed gas that is heavier be constant
through the flight? Why does the amount of density change with altitude
if the pressure differential is the same for all altitudes?

Try your sheet with a more typical payload flight say a 1500 gram
balloon, and 6 pounds of lift at the nozzle, what does the machine spit
out then?

I have been crunching some numbers on guessing psi at burst, but i need
to measure a few more parameters some, but for the 3000 gram balloon I
have a wide swing of estimated PSI at burst, anyplace between 0.019 and
0.075 psi at burst. still working on this tho..
>
> I take it you don't believe the inside vs outside pressure is real or
> affects the lift to the extent needed to explain this balloon.
Not that I don't believe it. I'm just comparing what pressures were
measured in other flights, Like the chart from ARBORNET when the
balloon was 1/2 full, is at the point of the flight where it most likely
had the LEAST amount of differential pressure at the time.
> In reality we will probably never know on this balloon and one
> hypothesis is as good as the next. I guess i will have to see if I
> can find any more evidence for my hypothesis :-)
>
> One thing I noticed was the ascent rate on the chart. It looks like
> the first 40K feet was done in 45 minutes, 80K in 90 minutes. 889 fpm
> seems like a lot faster than the expected.
Not to me, with 1 pound (a typical amount we use for a windy day
launch. we average 90% of the time in that range of speed high 800's
and low 900's with 8 oz of extra lift we get in the 600's on the average.

>
> Does that seem within the range expected from the free lift given?
If anything to me it seems a little slow with 1.6 extra, 1.6 extra I
would expect close to 1000 or even 1100 ft/min.
>
> Also, what kind of burst altitude (or volume) tolerance is seen on
> these balloons?
We have yet to have one burst early, 90% usually are withinn + or - 1000
feet of our prediction, if it ever is way off it's always been on the
high side. like NSS-50 we estimated it should pop pretty low because we
used a small balloon and way over inflated it, we thought a 85K pop but
it made it to a litle over 93K

But most of the times our alt predictions are pretty close.

Joe WB9SBD
Near Space Sciences
>
> Jerry
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 2, 2010 2:35:57 PM
> *Subject:* [GPSL] K6RPT-14 Balloon Could Not Have Pressurized
>
> I have been crunching some numbers, I was going to see if this flight
> began to pressurize, and what pressure it may have gotten to when it
> gave up, but after crunching this first set of numbers I honestly do
> not think this balloon got even close to start to pressurize when it
> ended it's flight.
>
> Anyone care to double check my math below?
>
> ==========
> Balloon Type and weight, Totex TA-3000 *3000* gram weight
> Nozzle Lift *1080* Grams
>
> Total system lift, balloon and nozzle Lift
> (the amount of lift needed to be provided by the lifting gas)
> *4080* grams.
>
> At Sea level 1 cubic meter of HE weighs *178.6* Grams.
> At Sea Level 1 Cubic Meter of "Air" weighs *1225* Grams.
>
> So, 1 cubic meter of HE is *1046.4* Grams lighter than 1 cubic meter
> of "Air"
>
> So taking the needed amount of lift as seen above (*4080* grams)
> Divided by the amount of lift that 1 cubic meter of HE provides, will
> give you the amount of HE needed for the flight.

>
> *4080 / 1046.4* = *3.899* cubic meters.
>
> To confirm the numbers,,
>
> *3.899* cubic meters of "Air" weighs *4776* Grams and
> *3.899* cubic meters of HE weighs *695* Grams.
>
> "Air" weight minus HE weight =
>
> *4776 - 695 = 4081* Grams (Close enough for needed system flight)
> ==========
> TA-3000 Balloon Volume at Burst *1150* cubic meters.
>
> Assuming the data from above is correct, I calculate that my estimated
> burst should have been at *129500* feet.
>
> ==========
>
> Now looking at that flight rate of climb chart that someone made,
> it is very obvious that something very drastic happened at right
> about *115 thousand* feet.
>
> Was the balloon almost full? And It has started to pressurize?
>
> Nope not a chance.
>
> The Initial *3.899* cubic meters at sea level of HE, has expanded at
> *115,000* feet to only *582* cubic meters!
>
> It is just barely past being half full. So I think there is no way
> this could have started to pressurize.
>
> Now what happened? Is anyone's guess.
>
> I'm leaning towards a minor defect, that started to vent gas, and as
> it lasted longer and longer it got bigger and bigger, till it zippered
> up the whole side of the balloon, which also gives good evidence of
> the large amount or remaining balloon. Where instead of literally
> exploding like we all have seen, it more just split up one side like
> spandex on some 500 pound woman at Wal*Mart
>
> Joe WB9SBD
> Near Space Sciences
> --
>
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> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com

>
>
>

8319. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 03:40:01 UTC
From: Mike Manes
Topic: 1529 Message: 8319

That's true. Of course, you'd give up a cutdown, unless you were willing
to lose the logger.

I think that getting a very accurate static port for the transducer would
be very important, in light of the small differential pressures you'd
be measuring. Might be tough to get in the wake of the ascending balloon.
And I'm clueless re how to know when you had the static port just right.

73 de Mike W5VSI

On 9/1/2010 21:33, Mark Conner wrote:
>
>
> A small logger right with the transducer might be the way to go. You'd need
> time hacks (easy enough) and could then time-sync the pressure values with GPS
> data on the main payload after recovery.
>
> There are some Honeywell pressure sensors that could have the required
> resolution but the extreme cold may ruin the calibration and make the values
> untrustworthy.
>
> 73 de Mark N9XTN
>
> On Wed, Sep 1, 2010 at 21:38, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> I think Mike of ARBONET has figured out that the payload that reads
> that pressure transducer must be attached right to the balloon neck,
> thus obviating the normal balloon - lift line - parachute - payload
> order. Either that, or link the transducer data at the balloon
> down the string via a wireless link, e.g. Bluetooth. If the lift
> line were in the form of a rope ladder to eliminate twisting, a
> wired link could work - but what a mess to bring back on the 'chute
> apex on descent!
>
> 73 de Mike W5VSI
>
>
> On 9/1/2010 17:30, Mark Conner wrote:
>
>
>
>
> Nice work, Jerry. Now if we can relate lift to an ascent rate
> (accounting for
> drag changes due to Reynolds number) and have it model the flight's ascent
> rate, then you're on your way to talking me into the pressurization

> theory.
> It'd help even more if we can show that the level-off point for a smaller
> balloon isn't reached over typical altitudes.
>
> At first blush, a 0.01 in pressure differential is plausible to my mind.
>
> Now all we need is a well-calibrated and high-resolution psid gauge in a
> future balloon. Hmm......
>
> 73 de Mark N9XTN
>
> On Wed, Sep 1, 2010 at 17:02, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>
> <mailto:jerrygable@... <mailto:jerrygable@...>>> wrote:
>
>
>
> Looks like attachments are stripped. This is the link to the
> spreadsheet
> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>
>
> ---
> *From:* Jerry Gable <jerrygable@...
> <mailto:jerrygable@...> <mailto:jerrygable@...
> <mailto:jerrygable@...>>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>
> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
>
> I have wanted to write yet another balloon lift calculator and
> this flight
> presented a question on why it slowed. I decided to see what the data
> looks like.
>
> I have attached a spreadsheet that calculates the free lift every
> 500ft
> using the US Standard Atmosphere 1976 as the basis.
>
> The one difference I did was add a pressure differential between the
> internal (helium pressure) and atmospheric pressure (Delta
> pressure inside
> balloon in PSI on spreadsheet) If you set this delta (blue cell)
> to 0 in
> the spreadsheet the lift is constant all the way up. If you set it to
> 0.01 psi it shows the lift dropping to 0 @ 120,000 feet. If this
> delta
> pressure is very low for most of the flight but increases

> significantly
> near burst this curve would be even more dramatic.
>
> Let me know if you see anything wrong with this calculation.
>
>
> ---
> *From:* BASE <basedepauw@... <mailto:basedepauw@...>
> <mailto:basedepauw@... <mailto:basedepauw@...>>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>
> *Sent:* Wed, September 1, 2010 2:36:20 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
> I've added a simple plot of the dynamic viscosity of the standard
> atmosphere on the files page. It is interesting to note the
> increase in
> the dynamic viscosity above 30 km.
>
> Since the Reynolds number is very small, the drag force on the balloon
> follows Stokes' Law. The increase in the dynamic viscosity will
> result in
> a decrease in the ascent velocity. This could be a contributing
> factor to
> the ascent profile of K6RPT-14 on Monday.
>
> Howard
>
> --- On *Wed, 9/1/10, GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com> <mailto:GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com>>
> /<GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>>/* wrote:
>
>
> From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>>
>
> Subject: [GPSL] New file uploaded to GPSL
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>
> Date: Wednesday, September 1, 2010, 5:31 PM
>
>
> Hello,
>

> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the GPSL
> group.
>
> File : /dynamicviscositystandardatmosphere.jpg
> Uploaded by : basedepauw <basedepauw@...
> <mailto:basedepauw@...>>
> Description : Here is a plot of the dynamic viscosity versus
> altitude
> according to the standard atmosphere
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>
> Regards,
>
> basedepauw <basedepauw@... <mailto:basedepauw@...>>
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>
>
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>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8320. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 03:54:08 UTC
From: Mike Manes
Topic: 1529 Message: 8320

DigiKey carries a line of very sensitive diff pressure sensors:

http://search.digikey.com/scripts/DkSearch/dksus.dll

Some are good down to -40C - but pricey? Yeah!

73 de Mike W5VSI

On 9/2/2010 07:16, L. Paul Verhage wrote:
>
>
> This was making me think we need a small BalloonSat inside the balloon. The
> Xbee radio at Parallax is only $19 and has the range. I can donate a
> BalloonSat Mini to the cause. I have Xbee radio boards for robotics that will
> attach to the Mini. What kind of flight computer is in the payload? My
> BalloonSat Extreme will record GPS data and listen to the BalloonSat Mini
> inside the balloon.
> What pressure sensor is recommended?
> Paul
>
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> 73 de Mark N9XTN
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> *Sent:* Wed, September 1, 2010 2:58:46 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL [1 Attachment]
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> balloon in PSI on spreadsheet) If you set this delta (blue
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> the spreadsheet the lift is constant all the way up. If you
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> 0.01 psi it shows the lift dropping to 0 @ 120,000 feet. If
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> near burst this curve would be even more dramatic.
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> /<GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>>/* wrote:
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8321. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:13:35 UTC
From: Mike Manes
Topic: 1529 Message: 8321

DigiKey also carries 'em:

http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=480-2522-5-ND

But only good down to -20C and still pricey! One could keep it above 0C with
a thermostatic heater and some thermal insulation - just make the sensing
tubes long enough to keep the coolth out. Analog Devices makes a nice
resistance-programmable electronic thermostat IC - used it on my first
Li-ion flight test.

73 de Mike W5VSI

On 9/2/2010 08:00, Mark Conner wrote:
>
>
> This series has I2C digital output and either 3.3 or 5.0 V for supply voltage:
> http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0
>
> Since we are measuring very small pressure differentials, I would suggest the
> smallest range available (the +/-5 in H2O version measures +/-0.18 psi).
> Mouser has at least some of these sensor types in stock. The documentation is
> somewhat inconsistent, but with about 12-bit (4096 count) resolution, the
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8322. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:18:39 UTC
From: Mike Manes
Topic: 1529 Message: 8322

It's axiomatic that two parallel lines on a flight string will twist
themselves together to form a single, uniform rope. Even if one is
a signal cable. Better to live with the shards coming back with the
'chute.

73 de Mike W5VSI

On 9/2/2010 08:17, L. Paul Verhage wrote:
>
>
> I've downloaded the datasheet and will order a few sensors this weekend.
> Cold could be a problem, but I don't know about running the sensor inside the
> near spacecraft. I'm thinking that running a hose to the payload could create
> issues. The sensor inside the balloon and a radio link would seem
> conceptually simpler (but also colder as Joe mentioned). Joe, what idea did
> you have in mind?
> I would be interested in gettng the experiment back. I think we could tie the
> experiment to the load line so when the balloon bursts, it comes back with the
> 'chute. I can include a temperature and relative humidity sensor with the
> BalloonSat Mini (maybe a BalloonSat Easy since the sensor is I2C). The extra
> data ought to be useful. The BalloonSat flight computer digitizes to 10 bits
> of resolution. That's 0.5 deg C resolution and about 0.4% in RH.
> Paul
>
> On Thu, Sep 2, 2010 at 9:07 AM, Joe <nss@... <mailto:nss@...>> wrote:
>
> I think the cold is gonna possibly be a problem. But a flight could
> always do it again like the Abornet gang did where the balloon was right
> at the payload. and the sensor was inside nice and toasty.
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>> To learn more about file sharing for your group,
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>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>>
>> Regards,
>>
>> basedepauw <basedepauw@...
>> <mailto:basedepauw@...>>
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>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...>
>> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
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>> Onwards and Upwards,
>> Paul
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> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8323. Re: [GPSL] K6RPT-14 balloon didn’t shred up like my 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:21:27 UTC
From: Mike Manes
Topic: 8287 Message: 8323

I've brought back as much as 6 lb or 90% of a 3000 gm Totex shards.
No telling how they'll burst.

On 9/2/2010 08:38, k6rpt wrote:
> I just received an email with pictures of the balloon and payload from the property owner, looks like the balloon didn't shred up like my 1500g flights.
>
> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
>
> -Ron K6RPT
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8324. Re: [GPSL] Subject Line & Body Of Message Matching,,,

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:26:47 UTC
From: Mike Manes
Topic: 1529 Message: 8324

Interesting threads do tend to wander away from the original message,
but changing the subject line does break that thread, and that's
crude, rude and socially unacceptable to some - not me - but my
beloved bride was recently pilloried unmercifully for committing that
offense on her mythology reflector.

I don't give a hoot.

73 de Mike W5VSI

On 9/2/2010 09:02, Joe wrote:
> You Know? I Propose something that we all should do, especially once the new
> groups are all laid out and finalized. Like this whole discussion shouldn't be
> happening on the GPSL list.
>
> But to re name the subject lines when ever the body does not any longer match
> the subject line. Like this thread of messages haven't had anything at all to
> do with a file that was up-loaded to he group site.
>
> I changed tyhe Subject Line To Match what is IN the Body of THIS message. Or
> at least the Main thought of the message.
>
> Having a clear and detailed true subject line would be very nice. Yes?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 9:28 AM, Joe wrote:
>>
>> On 9/2/2010 9:17 AM, L. Paul Verhage wrote:
>>> I've downloaded the datasheet and will order a few sensors this weekend.
>> What Pressure Range did you order?
>>> Cold could be a problem,
>> Who had the cold bell jar if I remember someone had one.
>>> but I don't know about running the sensor inside the near spacecraft. I'm
>>> thinking that running a hose to the payload could create issues.
>> That is the problem. And other than what the ABORNET gang did I at this
>> early morning moment, just don't see a safe alternative.
>>> The sensor inside the balloon and a radio link would seem conceptually
>>> simpler (but also colder as Joe mentioned). Joe, what idea did you have in
>>> mind?
>> Sadly none any better than the ARBORNET method. Does anyone know how the

>> University of Minnesota gang did theirs? I know they ran some flights, but i
>> never heard about the success of them or of any data that came from them.
>>> I would be interested in gettng the experiment back.
>> He he he don't we all!
>>> I think we could tie the experiment to the load line so when the balloon
>>> bursts, it comes back with the 'chute.
>> I think the inverted system again as ABORNET did would be best. But possibly
>> with one change, instead of the main chute being under the payload, have
>> that be only a tiny drogue chute, that after PBC is all over with and the
>> payload is falling in the correct manner then it deploys the main chute.
>>> I can include a temperature and relative humidity sensor with the
>>> BalloonSat Mini (maybe a BalloonSat Easy since the sensor is I2C). The
>>> extra data ought to be useful. The BalloonSat flight computer digitizes to
>>> 10 bits of resolution. That's 0.5 deg C resolution and about 0.4% in RH.
>>> Paul
>>>
>>> On Thu, Sep 2, 2010 at 9:07 AM, Joe <nss@... <mailto:nss@...>> wrote:
>>>
>>> I think the cold is gonna possibly be a problem. But a flight could
>>> always do it again like the Abornet gang did where the balloon was
>>> right at the payload. and the sensor was inside nice and toasty.
>>>
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>
>>> On 9/2/2010 9:00 AM, Mark Conner wrote:
>>>> This series has I2C digital output and either 3.3 or 5.0 V for supply
>>>> voltage:
>>>> http://sensing.honeywell.com/index.cfm/ci_id/155937/la_id/1/document/1/re_id/0
>>>>
>>>> Since we are measuring very small pressure differentials, I would
>>>> suggest the smallest range available (the +/-5 in H2O version measures
>>>> +/-0.18 psi). Mouser has at least some of these sensor types in stock.
>>>> The documentation is somewhat inconsistent, but with about 12-bit
>>>> (4096 count) resolution, the resolution is about .0001 psi. The
>>>> trouble might be that it's only good down to 0C calibrated and minimum
>>>> operating temp is -20C. It may be hard to get one that's fully rated
>>>> down to the temps we need, but maybe it's functional enough.
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>> On Thu, Sep 2, 2010 at 08:16, L. Paul Verhage <nearsys@...
>>>> <mailto:nearsys@...>> wrote:
>>>>
>>>>

>>>>
>>>> This was making me think we need a small BalloonSat inside the
>>>> balloon. The Xbee radio at Parallax is only $19 and has the range.
>>>> I can donate a BalloonSat Mini to the cause. I have Xbee radio
>>>> boards for robotics that will attach to the Mini. What kind of
>>>> flight computer is in the payload? My BalloonSat Extreme will
>>>> record GPS data and listen to the BalloonSat Mini inside the balloon.
>>>> What pressure sensor is recommended?
>>>> Paul
>>>>
>>>> On Wed, Sep 1, 2010 at 10:33 PM, Mark Conner <mconner1@...
>>>> <mailto:mconner1@...>> wrote:
>>>>
>>>>
>>>>
>>>> A small logger right with the transducer might be the way to
>>>> go. You'd need time hacks (easy enough) and could then
>>>> time-sync the pressure values with GPS data on the main
>>>> payload after recovery.
>>>>
>>>> There are some Honeywell pressure sensors that could have the
>>>> required resolution but the extreme cold may ruin the
>>>> calibration and make the values untrustworthy.
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>>
>>>> On Wed, Sep 1, 2010 at 21:38, Mike Manes <mrmanes@...
>>>> <mailto:mrmanes@...>> wrote:
>>>>
>>>> I think Mike of ARBONET has figured out that the payload
>>>> that reads
>>>> that pressure transducer must be attached right to the
>>>> balloon neck,
>>>> thus obviating the normal balloon - lift line - parachute
>>>> - payload
>>>> order. Either that, or link the transducer data at the balloon
>>>> down the string via a wireless link, e.g. Bluetooth. If
>>>> the lift
>>>> line were in the form of a rope ladder to eliminate
>>>> twisting, a
>>>> wired link could work - but what a mess to bring back on
>>>> the 'chute
>>>> apex on descent!
>>>>
>>>> 73 de Mike W5VSI
>>>>
>>>>
>>>> On 9/1/2010 17:30, Mark Conner wrote:
>>>>

>>>>
>>>>
>>>> Nice work, Jerry. Now if we can relate lift to an
>>>> ascent rate (accounting for
>>>> drag changes due to Reynolds number) and have it model
>>>> the flight's ascent
>>>> rate, then you're on your way to talking me into the
>>>> pressurization theory.
>>>> It'd help even more if we can show that the level-off
>>>> point for a smaller
>>>> balloon isn't reached over typical altitudes.
>>>>
>>>> At first blush, a 0.01 in pressure differential is
>>>> plausible to my mind.
>>>>
>>>> Now all we need is a well-calibrated and
>>>> high-resolution psid gauge in a
>>>> future balloon. Hmm......
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>> On Wed, Sep 1, 2010 at 17:02, Jerry Gable
>>>> <jerrygable@... <mailto:jerrygable@...>
>>>> <mailto:jerrygable@...
>>>> <mailto:jerrygable@...>>> wrote:
>>>>
>>>>
>>>>
>>>> Looks like attachments are stripped. This is the link
>>>> to the spreadsheet
>>>> http://xa.yimg.com/kq/groups/6764416/852335394/name/BalloonFlight.xls
>>>>
>>>> ---
>>>> *From:* Jerry Gable <jerrygable@...
>>>> <mailto:jerrygable@...>
>>>> <mailto:jerrygable@...
>>>> <mailto:jerrygable@...>>>
>>>> *To:* GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>
>>>>
>>>> *Sent:* Wed, September 1, 2010 2:58:46 PM
>>>> *Subject:* Re: [GPSL] New file uploaded to GPSL [1
>>>> Attachment]
>>>>
>>>> I have wanted to write yet another balloon lift
>>>> calculator and this flight
>>>> presented a question on why it slowed. I decided to
>>>> see what the data

>>>> looks like.
>>>>
>>>> I have attached a spreadsheet that calculates the free
>>>> lift every 500ft
>>>> using the US Standard Atmosphere 1976 as the basis.
>>>>
>>>> The one difference I did was add a pressure
>>>> differential between the
>>>> internal (helium pressure) and atmospheric pressure
>>>> (Delta pressure inside
>>>> balloon in PSI on spreadsheet) If you set this delta
>>>> (blue cell) to 0 in
>>>> the spreadsheet the lift is constant all the way up.
>>>> If you set it to
>>>> 0.01 psi it shows the lift dropping to 0 @ 120,000
>>>> feet. If this delta
>>>> pressure is very low for most of the flight but
>>>> increases significantly
>>>> near burst this curve would be even more dramatic.
>>>>
>>>> Let me know if you see anything wrong with this
>>>> calculation.
>>>>
>>>> ---
>>>> *From:* BASE <basedepauw@...
>>>> <mailto:basedepauw@...>
>>>> <mailto:basedepauw@...
>>>> <mailto:basedepauw@...>>>
>>>> *To:* GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>
>>>>
>>>> *Sent:* Wed, September 1, 2010 2:36:20 PM
>>>> *Subject:* Re: [GPSL] New file uploaded to GPSL
>>>>
>>>> I've added a simple plot of the dynamic viscosity of
>>>> the standard
>>>> atmosphere on the files page. It is interesting to
>>>> note the increase in
>>>> the dynamic viscosity above 30 km.
>>>>
>>>> Since the Reynolds number is very small, the drag
>>>> force on the balloon
>>>> follows Stokes' Law. The increase in the dynamic
>>>> viscosity will result in
>>>> a decrease in the ascent velocity. This could be a
>>>> contributing factor to
>>>> the ascent profile of K6RPT-14 on Monday.
>>>>

>>>> Howard
>>>>
>>>> --- On *Wed, 9/1/10, GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>
>>>> /<GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>>/* wrote:
>>>>
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>>>> From: GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>
>>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>>
>>>>
>>>> Subject: [GPSL] New file uploaded to GPSL
>>>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>>> <mailto:GPSL@yahoogroups.com
>>>> <mailto:GPSL@yahoogroups.com>>
>>>>
>>>> Date: Wednesday, September 1, 2010, 5:31 PM
>>>>
>>>>
>>>> Hello,
>>>>
>>>> This email message is a notification to let you know that
>>>> a file has been uploaded to the Files area of the GPSL
>>>> group.
>>>>
>>>> File : /dynamicviscositystandardatmosphere.jpg
>>>> Uploaded by : basedepauw <basedepauw@...
>>>> <mailto:basedepauw@...>>
>>>> Description : Here is a plot of the dynamic viscosity
>>>> versus altitude
>>>> according to the standard atmosphere
>>>>
>>>> You can access this file at the URL:
>>>> http://groups.yahoo.com/group/GPSL/files/dynamicviscositystandardatmosphere.jpg
>>>>
>>>>
>>>> To learn more about file sharing for your group,
>>>> please visit:
>>>> http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles
>>>>
>>>> Regards,
>>>>

>>>> basedepauw <basedepauw@...
>>>> <mailto:basedepauw@...>>
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>>>> --
>>>> Mike Manes mrmanes@... <mailto:mrmanes@...>
>>>> Tel: 303-979-4899
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>>>> A. Einstein
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>>>> Paul
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>>> Onwards and Upwards,
>>> Paul

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8325. Re: [GPSL] K6RPT-14 balloon didn’t shred up like my 1500g flights.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:30:49 UTC
From: Mike Manes
Topic: 8287 Message: 8325

There's no telling. Some balloons break and leave nothing but the neck
tied to the lift line, while others of the same loading and altitude,
even on the same day, bring back dang near all of the envelope mass.

Since putting the fast release on all of our 'chutes, it's not a issue
for us any more (unless the release ices up :=( ).

73 de Mike W5VSI

On 9/2/2010 09:15, Keith Kaiser wrote:
>
>
> I think the difference is the maker of the balloon. One has a hard neck on it
> (Kaymont?) the other doesn't. This one shreds to nothing in our experice but
> the other brand (Kaysam) without the hard neck does not.
>
> Why I don't know but this is what we have observed.
>
> On Sep 2, 2010, at 10:09 AM, Joe wrote:
>
>> Interesting,
>>
>> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and few
>> 2000's that we have flown, we never ever get that much balloon back.
>>
>> hmmmm? the Mystery Deepens!
>>
>> The pinhole theory might fit into this too? That it got large enough at the
>> end to stretch open and slowly vent, (Caused the slowing of rise) but then
>> the continued stretching and it's defect gave a weak point for a simple
>> zipper tear to happen and one side of the balloon and it simply un zipped
>> and it really diddn't explode as usual. Also this may answer why the max
>> altitude was lower than expected because of the defect too.
>>
>> Joe WB9SBD
>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 9/2/2010 9:38 AM, k6rpt wrote:
>>> I just received an email with pictures of the balloon and payload from the property
owner, looks like the balloon didn't shred up like my 1500g flights.
>>>
>>> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg

>>>
>>> -Ron K6RPT
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8326. Re: [GPSL] Maker Of Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 04:41:33 UTC
From: Mike Manes
Topic: 8287 Message: 8326

You'd need one monster garbage bag to match the 35-foot burst diameter
of a 1200 gm latex! And then you'd have to figure out how to terminate
it.

On 9/2/2010 09:44, L. Paul Verhage wrote:
>
>
> We don't have much choice when it comes to balloons though, do we. A few
> months ago I looked into those balloons from China and they turned out to be
> pure latex (not neoprene or chloroprene which is a mix of latex and
> neoprene). They were very expensive, even in large batches.
> Paul "I'm beginning to look at garbage bags in a new light" Verhage
>
> On Thu, Sep 2, 2010 at 10:35 AM, Joe <nss@... <mailto:nss@...>> wrote:
>
> Anything from Kaysam has to be at least a decade old if not more true?
> And they had that hard ring in the neck. I never ever knew what the
> purpose of was.
>
> Kaymont, is actually a Totex balloon Made in japan. kaynont is just their
> Distributor.
>
> Anything to do with Kaysam i ignore, I flew maybe dozen of their balloons
> and was dissapointed on their performance on every flight. Yes some were
> surplus, and a few were new too.
>
> Kaysam had the ring and hard neck, Kaymont (Totex) does not.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
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> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 9/2/2010 10:15 AM, Keith Kaiser wrote:
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>> Why I don't know but this is what we have observed.
>>
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>>> Interesting,

>>>
>>> Granted I have yet to fly a 3000 Grammer, But the dozens of 1500's and
>>> few 2000's that we have flown, we never ever get that much balloon back.
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>>> hmmmm? the Mystery Deepens!
>>>
>>> The pinhole theory might fit into this too? That it got large enough
>>> at the end to stretch open and slowly vent, (Caused the slowing of
>>> rise) but then the continued stretching and it's defect gave a weak
>>> point for a simple zipper tear to happen and one side of the balloon
>>> and it simply un zipped and it really diddn't explode as usual. Also
>>> this may answer why the max altitude was lower than expected because of
>>> the defect too.
>>>
>>> Joe WB9SBD
>>> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
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>>>> -Ron K6RPT
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8327. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 05:02:07 UTC
From: Mike Manes
Topic: 8294 Message: 8327

I see that they measured the absolute pressure inside the balloon, which one would expect to be just slightly greater than the ambient air pressure. How much greater really can't be determined to any degree of accuracy from this experiment, even if the ambient pressure were measured separately, due to the "small differences in large numbers" effect.

Now I know this experiment was intended to test the ideal gas law, so those methods were valid, except for the rather coarse determination of the balloon volume from its image.

I think what we need is an accurate measurement of the differential pressure that's forcing the latex envelope to expand. And y'know? That could be done on the deck with a tethered balloon and a simple water manometer. Not as much fun as flying, tho. And it wouldn't create any head-scratching about what the Bernoulli effects of the airflow over the envelope might have as well.

73 de Mike W5VSI

On 9/2/2010 09:50, BASE wrote:
> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
>
> The following link shows how James Flaten's students did it at Minnesota.
>
> http://www.taylor.edu/dotAsset/177043.pdf
>
>
> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>
>
> Howard
>
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> Yahoo! Groups Links
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A. Einstein

8328. Re: [GPSL] Maker Of Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 05:05:54 UTC
From: wb8elk@aol.com
Topic: 8287 Message: 8328

I bought the last batch of Kaysam 3000 gram balloons before they closed their factory....I think that was in 2004...I still have a few of those left that I haven't flown....they performed well...I've flown about half the balloons I got in that last batch.

- Bill

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: L. Paul Verhage <nearsys@...>
Sent: Thu, Sep 2, 2010 11:41 pm
Subject: Re: [GPSL] Maker Of Balloons

You'd need one monster garbage bag to match the 35-foot burst diameter
of a 1200 gm latex! And then you'd have to figure out how to terminate
it.

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>>> Joe WB9SBD
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>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>>>> http://www.californianearspaceproject.com/images/1024%20100_1293b.jpg
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>>>> -Ron K6RPT
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> Onwards and Upwards,
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

=

8329. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 05:06:27 UTC
From: Joe
Topic: 8294 Message: 8329
Attachments: 1 described; binary payloads are missing from this source WARC

But like I said too where r u gonna find a 15 meter tall building to
do it in?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 12:02 AM, Mike Manes wrote:
> I see that they measured the absolute pressure inside the balloon, which
> one would expect to be just slightly greater than the ambient air pressure.
> How much greater really can't be determined to any degree of accuracy from
> this experiment, even if the ambient pressure were measured separately, due
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> Now I know this experiment was intended to test the ideal gas law, so those
> methods were valid, except for the rather coarse determination of the balloon
> volume from its image.
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> I think what we need is an accurate measurement of the differential
> pressure that's forcing the latex envelope to expand. And y'know?
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> water manometer. Not as much fun as flying, tho. And it wouldn't
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> 73 de Mike W5VSI
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> On 9/2/2010 09:50, BASE wrote:
>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many
times.
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>> The following link shows how James Flaten's students did it at Minnesota.
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>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
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>> Howard
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>> ------------------------------------
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>> Yahoo! Groups Links
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8330. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 10:56:10 UTC
From: BASE
Topic: 8294 Message: 8330
Attachments: 1 described; binary payloads are missing from this source WARC

Many indoor athletic buildings would meet the 15 meter criteria as would some large warehouses.
Howard

--- On Fri, 9/3/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
To: GPSL@yahoogroups.com
Cc: "Mike Manes" <mrmanes@...>, "BASE" <basedepauw@...>
Date: Friday, September 3, 2010, 1:06 AM

But like I said too where r u gonna find a 15 meter tall building to
do it in?

Joe WB9SBD

The Original Rolling
Ball
Clock

Idle Tyme

Idle-Tyme.com

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73 de Mike W5VSI

On 9/2/2010 09:50, BASE wrote:

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The following link shows how James Flaten's students did it at Minnesota.

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I know that Taylor partially inflates their balloons before inserting the sensor stick.

Howard

Yahoo! Groups Links

8331. Thickness.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 14:02:28 UTC
From: Joe
Topic: 8331 Message: 8331
Attachments: 1 described; binary payloads are missing from this source WARC

My Battery has passed away in my high accuracy Micrometer. 0.000001 accuracy.

can anyone here do a measurement for me? Take a piece of balloon, (part from a left over flight of course, I wouldn't ask you to do this on a new balloon) and measure it's thickness at total rest. where it's not stretched at all.

and then have someone stretch it to it's it cant stretch any further. the point where it's just about to break, and measure it's thickness at that point too.

anyone? Please?

Joe WB9SBD
--

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8332. Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 16:29:24 UTC
From: Jerry Gable
Topic: 8294 Message: 8332

So I have decided I am going to do a static test on the ground. I don't have a 3000g balloon to try this on but I do have a 600 gram I will sacrifice for the cause. I think I will get a couple 100g or so balloons so I can gauge how size affects the pressure.

I have order a .3PSI differential pressure gauge from DigiKey and will probably set up a water gauge also. I plan on using air and if I can get a building large enough I will hang it from the ceiling for the test.

Now for a couple of questions.
1. Does anyone see why this won't be a valid measurement of the delta pressure (on the ground with air)?

2. Anyone have any balloons they want to donate to the experiment? I am in Phoenix if that matters.

It will probably be a couple of weeks before I can get everything set up.

Jerry

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Fri, September 3, 2010 3:56:10 AM
Subject: Re: [GPSL] Pressure and temperature sensors inside balloon

Many indoor athletic buildings would meet the 15 meter criteria as would some large warehouses.

Howard

--- On Fri, 9/3/10, Joe <nss@...> wrote:

>From: Joe <nss@...>
>Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
>To: GPSL@yahoogroups.com
>Cc: "Mike Manes" <mrmanes@...>, "BASE" <basedepauw@...>
>Date: Friday, September 3, 2010, 1:06 AM
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>Idle Tyme
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>>>Yahoo! Groups Links
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>>>

8333. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 16:51:26 UTC
From: Joe
Topic: 8294 Message: 8333
Attachments: 1 described; binary payloads are missing from this source WARC

Morning Jerry,

See below,,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 11:29 AM, Jerry Gable wrote:
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> don't have a 3000g balloon to try this on but I do have a 600 gram I
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/*Let me go out on a Limb here, and make these guesses and predictions
of what the pressures will be. This will be fun.

The 100 Gram my guess of bursting pressure is..... 0.0311 PSI

The 600 Gram balloon guess of Bursting Pressure is.....
0.0101 PSI

Just for the record I'm guessing for the 3000 Gram one it could have
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> get a building large enough I will hang it from the ceiling for the test.
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> pressure (on the ground with air)?
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course at popping altitudes, it really isn't all that bad. cool but
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> 2. Anyone have any balloons they want to donate to the experiment? I
> am in Phoenix if that matters.
/*Sadly, nope,,

Joe WB9SBD
Near Space Sciences*/

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> *Sent:* Fri, September 3, 2010 3:56:10 AM
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8334. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 17:44:02 UTC
From: Jerry Gable
Topic: 8294 Message: 8334

Joe,
The transducer puts out 1V per kPA so the voltage should be around .1V for the 600G balloon if you guesses are correct. That will only be .277" of water so it won't be readable on a water column.

I'll try it on the small balloon and if you are close I will have to go for the much more expensive transducer.

So what is your guess on the curve? I am assuming that you think it will be very close to 0 (less that 0.001psi) for most of the time and increase to your predicted amount at burst. My guess is it will start climbing around 90% of the diameter,

---
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Fri, September 3, 2010 9:51:26 AM
Subject: Re: [GPSL] Static balloon internal pressure test

Morning Jerry,

See below,,

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 11:29 AM, Jerry Gable wrote:

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>balloons so I can gauge how size affects the pressure.
>Let me go out on a Limb here, and make these guesses and predictions of
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The 100 Gram my guess of bursting pressure is..... 0.0311 PSI

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>Thats if I'm even close.

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>pressure (on the ground with air)?
>The only thing I see that may be different is temperatures. But of
>course at popping altitudes, it really isn't all that bad. cool but
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>2. Anyone have any balloons they want to donate to the experiment? I
>am in Phoenix if that matters.
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Joe WB9SBD
Near Space Sciences

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>Sent: Fri, September 3, 2010 3:56:10 AM
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>>Cc: "Mike Manes" <mrmanes@...>, "BASE"
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8335. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 18:28:03 UTC
From: Mark Conner
Topic: 8294 Message: 8335

Joe,

How did you arrive at these numbers?

On Fri, Sep 3, 2010 at 11:51, Joe <nss@...> wrote:

> *Let me go out on a Limb here, and make these guesses and predictions of
> what the pressures will be. This will be fun.
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On 9/3/2010 11:29 AM, Jerry Gable wrote:
1. Does anyone see why this won't be a valid measurement of the delta
pressure (on the ground with air)?

Jerry,

Joe mentioned temperature and I'll do the same - it's not only the temp at burst but the exposure to the cold on the way up. You also have UV exposure which might modify the latex properties. Neither of these will be possible to simulate well on the ground.

I would inflate the balloon at a rate roughly matching what the balloon experiences in a real flight. I assume you'll stop the inflation periodically to measure the pressure differential? Measuring while inflating may not be valid, depending on how everything is hooked up.

I have some 100g balloons I could donate (somewhat old, unfortunately).

73 de Mark N9XTN

8336. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 18:39:35 UTC
From: Joe
Topic: 8294 Message: 8336
Attachments: 1 described; binary payloads are missing from this source WARC

How I came to those numbers is where I used to work, was at a plastic factory where we made many specialty plastics. and one of their test equipment was a tensile strength test equipment.

you would cut with this Die a special sized piece of the material to be tested. And you place it in the machine, and it stretches the test sample till it breaks, and you get the tensile strength.

We ran about a dozen tests, and they all were pretty consistent.

I then took that number and used it in the formula to calculate for a given diameter of a sphere at what PSI will exceed the tensile strength of the surface of the sphere.

And those numbers are what came out.

Now on this,, You ask....

So what is your guess on the curve? I am assuming that you think it will be very close to 0 (less that 0.001psi) for most of the time and increase to your predicted amount at burst. My guess is it will start climbing around 90% of the diameter,

That is hard to say. I'd be willing to say the curve is accurate, But it is a very low pressure curve, Sooo, low, that it has little to no effect on the HE density and buoyancy factor. I'd like to see what the numbers are, at that beginning of fill.

Say my guesses are right? If we take the ARBORNET pressure graph. and say it was a 1500 gram balloon,, (I don't remember what it was)

And burst was at the 197 minute point, and on that chart it had a value of about 28 on the left side. So say a 28 equals 0.0065 PSI

If this is true and that scale is linear, that those peaks shortly after launch would have peaked out at what about, 0.0104 PSI?

After those small peaks, it all dropps from there.

agree? Anyone? Anyone?

Bueller?

Joe WB9SBD
Near Space Sciences

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Idle Tyme

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8337. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 19:11:53 UTC
From: Jerry Gable
Topic: 8294 Message: 8337

Joe,

I don't have the curve from ARBORNE, is it posted somewhere?

Also while you are predicting, what would you expect as a delta for say a 10" party balloon? Probably not even the same material but I may see if I can do a simple experiment this weekend.

_____
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Fri, September 3, 2010 11:39:35 AM
Subject: Re: [GPSL] Static balloon internal pressure test

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Near Space Sciences

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Idle Tyme
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8338. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 19:50:05 UTC
From: Jerry Gable
Topic: 8294 Message: 8338

I finally found some balloon pressures here:
http://scipp.ucsc.edu/outreach/balloon/labs/InflationExp.htm

They don't say what size it is but the comment that 5' diameter is no where near burst leads me to believe it is in the 100-200 gram range.

Anyway, from their numbers, it looks like the pressure starts at 0.07psi and settles down to 0.03 during the middle inflation period. I would guess that burst would be above the initial pressure.

But we still have too many unknowns.

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Sent: Fri, September 3, 2010 12:11:53 PM
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you would cut with this Die a special sized piece of the material to be tested. And you place it in the machine, and it stretches the test sample till it breaks, and you get the tensile strength.

We ran about a dozen tests, and they all were pretty consistent.

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8339. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 19:59:18 UTC
From: Joe
Topic: 8294 Message: 8339
Attachments: 1 described; binary payloads are missing from this source WARC

I sent you a copy just direct via e mail.

The Original Rolling Ball Clock
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8340. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-03 20:07:46 UTC
From: Joe
Topic: 8294 Message: 8340
Attachments: 1 described; binary payloads are missing from this source WARC

yeah without knowing what size the balloon was. the numbers really
can't tell us a lot.

but the highest pressure apparently both with that group and the
ARBORNET flight is not at burst, but just past the barely inflated
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>>
>> See below,,
>>
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 9/3/2010 11:29 AM, Jerry Gable wrote:
>>> So I have decided I am going to do a static test on the ground. I
>>> don't have a 3000g balloon to try this on but I do have a 600 gram I
>>> will sacrifice for the cause. I think I will get a couple 100g or
>>> so balloons so I can gauge how size affects the pressure.
>> /*Let me go out on a Limb here, and make these guesses and
>> predictions of what the pressures will be. This will be fun.
>>
>> The 100 Gram my guess of bursting pressure is..... 0.0311 PSI
>>
>> The 600 Gram balloon guess of Bursting Pressure is.....
>> 0.0101 PSI

>>
>> Just for the record I'm guessing for the 3000 Gram one it could have
>> been ..... 0.0047 PSI*/
>>>
>>> I have order a .3PSI differential pressure gauge from DigiKey and
>>> will probably set up a water gauge also. I plan on using air and if
>>> I can get a building large enough I will hang it from the ceiling
>>> for the test.
>> /*By my guesses will that sensor have good enough low end
>> resolution? Thats if I'm even close.*/
>>>
>>> Now for a couple of questions.
>>> 1. Does anyone see why this won't be a valid measurement of the
>>> delta pressure (on the ground with air)?
>> /*The only thing I see that may be different is temperatures. But of
>> course at popping altitudes, it really isn't all that bad. cool
>> but not frigid.*/
>>>
>>> 2. Anyone have any balloons they want to donate to the experiment?
>>> I am in Phoenix if that matters.
>> /*Sadly, nope,,
>>
>> Joe WB9SBD
>> Near Space Sciences*/
>>>
>>> It will probably be a couple of weeks before I can get everything
>>> set up.
>>>
>>> Jerry
>>>
>>> ---
>>> *From:* BASE <basedepauw@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Fri, September 3, 2010 3:56:10 AM
>>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>>
>>> Many indoor athletic buildings would meet the 15 meter criteria as
>>> would some large warehouses.
>>>
>>> Howard
>>>
>>> --- On *Fri, 9/3/10, Joe /<nss@...>/* wrote:
>>>
>>>
>>> From: Joe <nss@...>
>>> Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
>>> To: GPSL@yahoogroups.com
>>> Cc: "Mike Manes" <mrmanes@...>, "BASE" <basedepauw@...>
>>> Date: Friday, September 3, 2010, 1:06 AM
>>>

>>> But like I said too where r u gonna find a 15 meter tall
>>> building to do it in?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://Idle-Tyme.com>
>>> http://www.idle-tyme.com
>>>
>>> On 9/3/2010 12:02 AM, Mike Manes wrote:
>>>> I see that they measured the absolute pressure inside the balloon, which
>>>> one would expect to be just slightly greater than the ambient air pressure.
>>>> How much greater really can't be determined to any degree of accuracy from
>>>> this experiment, even if the ambient pressure were measured separately, due
>>>> to the "small differences in large numbers" effect.
>>>>
>>>> Now I know this experiment was intended to test the ideal gas law, so those
>>>> methods were valid, except for the rather coarse determination of the balloon
>>>> volume from its image.
>>>>
>>>> I think what we need is an accurate measurement of the differential
>>>> pressure that's forcing the latex envelope to expand. And y'know?
>>>> That could be done on the deck with a tethered balloon and a simple
>>>> water manometer. Not as much fun as flying, tho. And it wouldn't
>>>> create any head-scratching about what the Bernoulli effects of the
>>>> airflow
>>>> over
>>>> the
>>>> envelope might have as
>>>> well.
>>>>
>>>> 73 de Mike W5VSI
>>>>
>>>> On 9/2/2010 09:50, BASE wrote:
>>>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it
many times.
>>>>>
>>>>> The following link shows how James Flaten's students did it at Minnesota.
>>>>>
>>>>> http://www.taylor.edu/dotAsset/177043.pdf
>>>>>
>>>>>
>>>>> I know that Taylor partially inflates their balloons before inserting the sensor
stick.
>>>>>
>>>>>
>>>>> Howard
>>>>>
>>>>>

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>>>>> ------------------------------------
>>>>>
>>>>> Yahoo! Groups Links
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8341. Re: [GPSL] K6RPT-14 Balloon Could Not Have Pressurized

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 01:21:06 UTC
From: Mike Manes
Topic: 8310 Message: 8341

Nice piece of analysis, Joe. Turns out that K6RPT-14 was expected to
make 129K', just as your figures show. So the early stall and low
burst at 123K' was not expected and is indicative of an anomaly; just
what it was is the topic of this quiz.

I'm stickin' with the meteroid, Paul!

73 de Mike W5VSI

On 9/2/2010 15:35, Joe wrote:
> I have been crunching some numbers, I was going to see if this flight began
> to pressurize, and what pressure it may have gotten to when it gave up, but
> after crunching this first set of numbers I honestly do not think this balloon
> got even close to start to pressurize when it ended it's flight.
>
> Anyone care to double check my math below?
>
> ========================
> Balloon Type and weight, Totex TA-3000 *3000* gram weight
> Nozzle Lift *1080* Grams
>
> Total system lift, balloon and nozzle Lift
> (the amount of lift needed to be provided by the lifting gas) *4080* grams.
>
> At Sea level 1 cubic meter of HE weighs *178.6* Grams.
> At Sea Level 1 Cubic Meter of "Air" weighs *1225* Grams.
>
> So, 1 cubic meter of HE is *1046.4* Grams lighter than 1 cubic meter of "Air"
>
> So taking the needed amount of lift as seen above (*4080* grams) Divided by
> the amount of lift that 1 cubic meter of HE provides, will give you the amount
> of HE needed for the flight.
>
> *4080 / 1046.4* = *3.899* cubic meters.
>
> To confirm the numbers,,
>
> *3.899* cubic meters of "Air" weighs *4776* Grams and
> *3.899* cubic meters of HE weighs *695* Grams.
>
> "Air" weight minus HE weight =
>
> *4776 - 695 = 4081* Grams (Close enough for needed system flight)
> ================================
> TA-3000 Balloon Volume at Burst *1150* cubic meters.
>

> Assuming the data from above is correct, I calculate that my estimated burst
> should have been at *129500* feet.
>
> ===================================
>
> Now looking at that flight rate of climb chart that someone made,
> it is very obvious that something very drastic happened at right about *115
> thousand* feet.
>
> Was the balloon almost full? And It has started to pressurize?
>
> Nope not a chance.
>
> The Initial *3.899* cubic meters at sea level of HE, has expanded at *115,000*
> feet to only *582* cubic meters!
>
> It is just barely past being half full. So I think there is no way this could
> have started to pressurize.
>
> Now what happened? Is anyone's guess.
>
> I'm leaning towards a minor defect, that started to vent gas, and as it lasted
> longer and longer it got bigger and bigger, till it zippered up the whole side
> of the balloon, which also gives good evidence of the large amount or
> remaining balloon. Where instead of literally exploding like we all have seen,
> it more just split up one side like spandex on some 500 pound woman at Wal*Mart
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8342. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 02:27:15 UTC
From: Mike Manes
Topic: 8294 Message: 8342

The only reason that the pressure will vary between the top and bottom
of the balloon would be due to gravity gradient. Period. Makes no
difference if the gas species separate inside the envelope. And
the gravity gradient in the Earth's atmosphere over a 50 foot difference
in elevation is vanishingly small.

Consider that pressure is simply due to the recoil of gas molecules
striking the interior surface of the envelope - or the diaphragm of
a interior pressure transducer. This is basic principle behind the
ideal gas law: PV = nRT or P = nRT/V. For constant nRT, P varies
inversely with volume, V, and vice versa.

73 de Mike W5VSI

On 9/2/2010 11:22, L. Paul Verhage wrote:
>
>
> What model is your pressure sensor and where did you get it?
> Sounds like we should fly two BalloonSats inside the balloon and interesting
> observation about "heavier" air settling into the neck of the balloon.
>
> On Thu, Sep 2, 2010 at 12:19 PM, Michael Willett <mw@...
> <mailto:mw@...>> wrote:
>
>
> To measure pressure inside the balloon, you can do it at least two ways:
>
> 1) A differential pressure sensor inside the balloon with one side capped
> off; this presents a known relative value (the captive part) as a constant
> of which you compare the variable pressure of interest inside the balloon.
> This is the way to go with the rod sensor mentioned by Howard, where we
> want to measure the change in pressure inside the balloon near the center.
> This will reflect the change in He pressure in a captive environment with
> the variable being the compression created by the latex.
>
> 2) A standard pressure sensor as shown in the ARBONET presentation at
> GPSL-2010 and flown in 2009. This measures the difference in pressure at
> the neck of the balloon against the ambient outside pressure plus the
> compression provided by the balloon.
>
> Outside of impurities in the He and the point of measurement, the two
> should track relative to each other. The heavier impurities will show up
> in the neck of the balloon (standard air caught inside the envelope prior
> to inflation) and will show a lower reading overall than the unit sensing
> the air in the middle or top of the balloon.
>

> I would like to see the results if we flew both. That would make for more
> gray-matter grinding discussions!
>
> For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an
> analog output that is already corrected over a standard temperature range,
> and runs +/- for those areas we may see actual vacuum in the neck.
>
> --Michael
> K5NOT
>
>
>
>
> On 9/2/2010 11:21 AM, Joe wrote:
>> And temperature does indeed effect lift greatly.
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>>> But they do show the temperature inside the balloon and it doesn't look
>>> out of line with the outside temperature.
>>>
>>> Differential pressure and temperature would be ideal.
>>>
>>> ---
>>> *From:* Joe <nss@...> <mailto:nss@...>
>>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>> *Sent:* Thu, September 2, 2010 9:01:58 AM
>>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>>
>>> I just looked at that PDF, and it isn't what we need.
>>>
>>> It is a simple pressure ambient pressure. What numbers we need are
>>> differential pressure.
>>>
>>> Not what the pressure is inside the balloon. But what the difference
>>> is between inside and outside the balloon.
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>>> Joe WB9SBD
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>>> On 9/2/2010 10:50 AM, BASE wrote:
>>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
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>>>> The following link shows how James Flaten's students did it at Minnesota.
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>>>> Howard
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>>>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8343. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 02:36:06 UTC
From: Mike Manes
Topic: 8294 Message: 8343

Hi Jerry,

Yeah! That works around the question of getting an accurate ambient
pressure reading at a static port, since the balloon is stationary,
and if one uses a water manometer to measure the interior pressure,
the cost of a sensitive transducer and logger or telemetry scheme,
along with compensation for low-temperature errors, is
eliminated.

One could use natural gas (methane, MW = 16) for the fill in order to
get the balloon erect, thus saving the cost of compressed gas.

Not nearly as much fun as a real flight, however. Unless one is careless
about fire safety!

73 de Mike W5VSI

On 9/2/2010 11:34, Jerry Gable wrote:
>
>
> If we are primarily interested in the differential pressure as the balloon
> approaches burst, does it make sense to test a few on the ground with just an
> air inflation? Might be interesting to do a setup with a high speed camera to
> watch the burst.
>
> Jerry
>
> ---
> *From:* Michael Willett <mw@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 2, 2010 10:19:23 AM
> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>
>
>
> To measure pressure inside the balloon, you can do it at least two ways:
>
> 1) A differential pressure sensor inside the balloon with one side capped off;
> this presents a known relative value (the captive part) as a constant of which
> you compare the variable pressure of interest inside the balloon. This is the
> way to go with the rod sensor mentioned by Howard, where we want to measure
> the change in pressure inside the balloon near the center. This will reflect
> the change in He pressure in a captive environment with the variable being the
> compression created by the latex.
>
> 2) A standard pressure sensor as shown in the ARBONET presentation at
> GPSL-2010 and flown in 2009. This measures the difference in pressure at the

> neck of the balloon against the ambient outside pressure plus the compression
> provided by the balloon.
>
> Outside of impurities in the He and the point of measurement, the two should
> track relative to each other. The heavier impurities will show up in the neck
> of the balloon (standard air caught inside the envelope prior to inflation)
> and will show a lower reading overall than the unit sensing the air in the
> middle or top of the balloon.
>
> I would like to see the results if we flew both. That would make for more
> gray-matter grinding discussions!
>
> For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an
> analog output that is already corrected over a standard temperature range, and
> runs +/- for those areas we may see actual vacuum in the neck.
>
> --Michael
> K5NOT
>
>
>
> On 9/2/2010 11:21 AM, Joe wrote:
>> And temperature does indeed effect lift greatly.
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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>>
>> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>>> But they do show the temperature inside the balloon and it doesn't look out
>>> of line with the outside temperature.
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>>> Differential pressure and temperature would be ideal.
>>>
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>>> *From:* Joe <nss@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Thu, September 2, 2010 9:01:58 AM
>>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>>
>>> I just looked at that PDF, and it isn't what we need.
>>>
>>> It is a simple pressure ambient pressure. What numbers we need are
>>> differential pressure.
>>>
>>> Not what the pressure is inside the balloon. But what the difference is
>>> between inside and outside the balloon.

>>>
>>> Joe WB9SBD
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>>> The Original Rolling Ball Clock
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>>>
>>> On 9/2/2010 10:50 AM, BASE wrote:
>>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it many times.
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>>>> The following link shows how James Flaten's students did it at Minnesota.
>>>>
>>>> http://www.taylor.edu/dotAsset/177043.pdf
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>>>>
>>>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>>>>
>>>>
>>>> Howard
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>>>> ------------------------------------
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>>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8344. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 02:42:32 UTC
From: Joe
Topic: 8294 Message: 8344
Attachments: 1 described; binary payloads are missing from this source WARC

In addition,

While HE won't combine with other gasses to form other compounds,, if
there happen to be other gasses in the envelope, would the HE stratify,
(stay at the top) if it's lighter, or will it just mix in with the
other gasses and become a mix of both evenly belended throughout the
envelope.

Plus How would this happen anyway? If the gas inthe balloon isn't 100%
HE or H2, it's gota be awful close. to whatever purity the gas in the
bottle was.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 9:27 PM, Mike Manes wrote:
> The only reason that the pressure will vary between the top and bottom
> of the balloon would be due to gravity gradient. Period. Makes no
> difference if the gas species separate inside the envelope. And
> the gravity gradient in the Earth's atmosphere over a 50 foot difference
> in elevation is vanishingly small.
>
> Consider that pressure is simply due to the recoil of gas molecules
> striking the interior surface of the envelope - or the diaphragm of
> a interior pressure transducer. This is basic principle behind the
> ideal gas law: PV = nRT or P = nRT/V. For constant nRT, P varies
> inversely with volume, V, and vice versa.
>
> 73 de Mike W5VSI
>
> On 9/2/2010 11:22, L. Paul Verhage wrote:
>>
>> What model is your pressure sensor and where did you get it?
>> Sounds like we should fly two BalloonSats inside the balloon and interesting
>> observation about "heavier" air settling into the neck of the balloon.
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>>
>>

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>> of which you compare the variable pressure of interest inside the balloon.
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>>
>> For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an
>> analog output that is already corrected over a standard temperature range,
>> and runs +/- for those areas we may see actual vacuum in the neck.
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>> --Michael
>> K5NOT
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>> On 9/2/2010 11:21 AM, Joe wrote:
>>> And temperature does indeed effect lift greatly.
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>>> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>>>> But they do show the temperature inside the balloon and it doesn't look
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>>>> Differential pressure and temperature would be ideal.
>>>>

>>>> ---
>>>> *From:* Joe<nss@...> <mailto:nss@...>
>>>> *To:* GPSL@yahoogroups.com<mailto:GPSL@yahoogroups.com>
>>>> *Sent:* Thu, September 2, 2010 9:01:58 AM
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>>>>> I know that Taylor partially inflates their balloons before inserting the sensor
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>>>>> Howard
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>>>>> ------------------------------------
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>>>>> Yahoo! Groups Links
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>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>>

8345. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 02:56:49 UTC
From: Mike Manes
Topic: 1529 Message: 8345

3.7 hectopascals equals 1.5 inches of water, and also the barometric pressure
at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
the 126K' baro pressure. That means the balloon volume would be only
half that of an unconstrained bolus of He at that altitude, and the
density of balloon gas would thus be twice what we would assume,
perhaps enough to kill off the excess lift needed to sustain an ascent.

This could explain the loss of lift that we saw.

73 de Mike W5VSI

On 9/2/2010 14:28, Jerry Gable wrote:
> 3.7 hectopascals

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8346. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 03:02:43 UTC
From: Joe
Topic: 1529 Message: 8346
Attachments: 1 described; binary payloads are missing from this source WARC

Ok, Ya lost me,

Break this down some please Mike.

Where you got these numbers,,, and why you are using them in what way.

it's either late or i just lost all meaning of your whole message.

Sorry,

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 9:56 PM, Mike Manes wrote:
> 3.7 hectopascals equals 1.5 inches of water, and also the barometric pressure
> at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
> the 126K' baro pressure. That means the balloon volume would be only
> half that of an unconstrained bolus of He at that altitude, and the
> density of balloon gas would thus be twice what we would assume,
> perhaps enough to kill off the excess lift needed to sustain an ascent.
>
> This could explain the loss of lift that we saw.
>
> 73 de Mike W5VSI
>
> On 9/2/2010 14:28, Jerry Gable wrote:
>> 3.7 hectopascals

8347. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 03:26:58 UTC
From: Jerry Gable
Topic: 1529 Message: 8347

I think the 3.7 hPa came from my misreading of the Kaymont tables. But what he is saying is if the pressure in the balloon is higher than the external pressure the balloon will have less lift.

I think his point is if the internal pressure is slightly higher inside the balloon then there will be a loss of lift from the He. My calculations are that tha pressure needs to be about 0.01 to show the loss in lift from the balloon that started this.

That is about 10x what you believe it to be. Again I think we need some actual measurements to prove or disprove this cause.

But there is always the meteor theory.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Fri, September 3, 2010 8:02:43 PM
Subject: Re: [GPSL] New file uploaded to GPSL

Ok, Ya lost me,

Break this down some please Mike.

Where you got these numbers,,, and why you are using them in what way.

it's either late or i just lost all meaning of your whole message.

Sorry,

Joe

Sig
The Original Rolling Ball Clock
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http://www.idle-tyme.com

On 9/3/2010 9:56 PM, Mike Manes wrote:
3.7 hectopascals equals 1.5 inches of water, and also the barometric pressure
>at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
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>half that of an unconstrained bolus of He at that altitude, and the
>density of balloon gas would thus be twice what we would assume,
>perhaps enough to kill off the excess lift needed to sustain an ascent.
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>This could explain the loss of lift that we saw.
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>73 de Mike W5VSI
>
>On 9/2/2010 14:28, Jerry Gable wrote:
>
>3.7 hectopascals
>>

8348. Re: [GPSL] K6RPT-14 Balloon Could Not Have Pressurized

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 03:43:12 UTC
From: Mike Manes
Topic: 8310 Message: 8348

Joe,

Consider a case where the differential pressure equals the standard
atmospheric pressure at some altitude. In that case, the gas pressure
would be twice the baro pressure, and the balloon volume half what it
would be with zero differential pressure. Since the balloon is displacing
half the air, then its gross lift would also be cut in half.

73 de Mike W5VSI

On 9/2/2010 19:52, Joe wrote:
> See below,,
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/2/2010 5:27 PM, Jerry Gable wrote:
>> So if you set the delta pressure to 0 on my spreadsheet it will show very
>> close to the same numbers that you have.
> Yup and the lift is flatline across the flight as it should be.
>
> I quite don't understand the massive curve when there is a delta pressure, of
> the pressure is a constant 0.01 psi through the flight, shouldn't the amount
> of compressed gas that is heavier be constant through the flight? Why does the
> amount of density change with altitude if the pressure differential is the
> same for all altitudes?
>
> Try your sheet with a more typical payload flight say a 1500 gram balloon, and
> 6 pounds of lift at the nozzle, what does the machine spit out then?
>
> I have been crunching some numbers on guessing psi at burst, but i need to
> measure a few more parameters some, but for the 3000 gram balloon I have a
> wide swing of estimated PSI at burst, anyplace between 0.019 and 0.075 psi at
> burst. still working on this tho..
>>
>> I take it you don't believe the inside vs outside pressure is real or
>> affects the lift to the extent needed to explain this balloon.
> Not that I don't believe it. I'm just comparing what pressures were measured
> in other flights, Like the chart from ARBORNET when the balloon was 1/2 full,
> is at the point of the flight where it most likely had the LEAST amount of
> differential pressure at the time.
>> In reality we will probably never know on this balloon and one hypothesis is
>> as good as the next. I guess i will have to see if I can find any more
>> evidence for my hypothesis :-)

>>
>> One thing I noticed was the ascent rate on the chart. It looks like the
>> first 40K feet was done in 45 minutes, 80K in 90 minutes. 889 fpm seems like
>> a lot faster than the expected.
> Not to me, with 1 pound (a typical amount we use for a windy day launch. we
> average 90% of the time in that range of speed high 800's and low 900's with 8
> oz of extra lift we get in the 600's on the average.
>>
>> Does that seem within the range expected from the free lift given?
> If anything to me it seems a little slow with 1.6 extra, 1.6 extra I would
> expect close to 1000 or even 1100 ft/min.
>>
>> Also, what kind of burst altitude (or volume) tolerance is seen on these
>> balloons?
> We have yet to have one burst early, 90% usually are withinn + or - 1000 feet
> of our prediction, if it ever is way off it's always been on the high side.
> like NSS-50 we estimated it should pop pretty low because we used a small
> balloon and way over inflated it, we thought a 85K pop but it made it to a
> litle over 93K
>
> But most of the times our alt predictions are pretty close.
>
> Joe WB9SBD
> Near Space Sciences
>>
>> Jerry
>>
>> ---
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Thu, September 2, 2010 2:35:57 PM
>> *Subject:* [GPSL] K6RPT-14 Balloon Could Not Have Pressurized
>>
>> I have been crunching some numbers, I was going to see if this flight began
>> to pressurize, and what pressure it may have gotten to when it gave up, but
>> after crunching this first set of numbers I honestly do not think this
>> balloon got even close to start to pressurize when it ended it's flight.
>>
>> Anyone care to double check my math below?
>>
>> ==========
>> Balloon Type and weight, Totex TA-3000 *3000* gram weight
>> Nozzle Lift *1080* Grams
>>
>> Total system lift, balloon and nozzle Lift
>> (the amount of lift needed to be provided by the lifting gas) *4080* grams.
>>
>> At Sea level 1 cubic meter of HE weighs *178.6* Grams.
>> At Sea Level 1 Cubic Meter of "Air" weighs *1225* Grams.
>>

>> So, 1 cubic meter of HE is *1046.4* Grams lighter than 1 cubic meter of "Air"
>>
>> So taking the needed amount of lift as seen above (*4080* grams) Divided
>> by the amount of lift that 1 cubic meter of HE provides, will give you the
>> amount of HE needed for the flight.
>>
>> *4080 / 1046.4* = *3.899* cubic meters.
>>
>> To confirm the numbers,,
>>
>> *3.899* cubic meters of "Air" weighs *4776* Grams and
>> *3.899* cubic meters of HE weighs *695* Grams.
>>
>> "Air" weight minus HE weight =
>>
>> *4776 - 695 = 4081* Grams (Close enough for needed system flight)
>> ================================
>> TA-3000 Balloon Volume at Burst *1150* cubic meters.
>>
>> Assuming the data from above is correct, I calculate that my estimated burst
>> should have been at *129500* feet.
>>
>> ==================================
>>
>> Now looking at that flight rate of climb chart that someone made,
>> it is very obvious that something very drastic happened at right about *115
>> thousand* feet.
>>
>> Was the balloon almost full? And It has started to pressurize?
>>
>> Nope not a chance.
>>
>> The Initial *3.899* cubic meters at sea level of HE, has expanded at
>> *115,000* feet to only *582* cubic meters!
>>
>> It is just barely past being half full. So I think there is no way this
>> could have started to pressurize.
>>
>> Now what happened? Is anyone's guess.
>>
>> I'm leaning towards a minor defect, that started to vent gas, and as it
>> lasted longer and longer it got bigger and bigger, till it zippered up the
>> whole side of the balloon, which also gives good evidence of the large
>> amount or remaining balloon. Where instead of literally exploding like we
>> all have seen, it more just split up one side like spandex on some 500 pound
>> woman at Wal*Mart
>>
>> Joe WB9SBD
>> Near Space Sciences
>> --

>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8349. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 04:04:11 UTC
From: Mike Manes
Topic: 8294 Message: 8349

Wait for a calm morning. We've only done one fill in a barn, and the
door was so low that we had to crawl out to the launch area.

On 9/2/2010 23:06, Joe wrote:
> But like I said too where r u gonna find a 15 meter tall building to do it in?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
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>
> On 9/3/2010 12:02 AM, Mike Manes wrote:
>> I see that they measured the absolute pressure inside the balloon, which
>> one would expect to be just slightly greater than the ambient air pressure.
>> How much greater really can't be determined to any degree of accuracy from
>> this experiment, even if the ambient pressure were measured separately, due
>> to the "small differences in large numbers" effect.
>>
>> Now I know this experiment was intended to test the ideal gas law, so those
>> methods were valid, except for the rather coarse determination of the balloon
>> volume from its image.
>>
>> I think what we need is an accurate measurement of the differential
>> pressure that's forcing the latex envelope to expand. And y'know?
>> That could be done on the deck with a tethered balloon and a simple
>> water manometer. Not as much fun as flying, tho. And it wouldn't
>> create any head-scratching about what the Bernoulli effects of the
>> airflow over the envelope might have as well.
>>
>> 73 de Mike W5VSI
>>
>> On 9/2/2010 09:50, BASE wrote:
>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it
many times.
>>>
>>> The following link shows how James Flaten's students did it at Minnesota.
>>>
>>> http://www.taylor.edu/dotAsset/177043.pdf
>>>
>>>
>>> I know that Taylor partially inflates their balloons before inserting the sensor stick.
>>>
>>>

>>> Howard
>>>
>>>
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>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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>>>
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>>>

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A. Einstein

8350. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 04:29:33 UTC
From: Mike Manes
Topic: 8294 Message: 8350

Hi Jerry,

You could use a simple water manometer (U-shaped clear plastic tube) half full of water plus a ruler to measure the pressure. Cheaper and quite sensitive down to a fraction of an inch of water column.

Another technique is to immerse the hose carrying the balloon pressure into a beaker of water, and measure the depth at which bubbles just start to appear at the end of the hose.

73 de Mike W5VSI

On 9/3/2010 10:29, Jerry Gable wrote:
>
>
> So I have decided I am going to do a static test on the ground. I don't have a
> 3000g balloon to try this on but I do have a 600 gram I will sacrifice for the
> cause. I think I will get a couple 100g or so balloons so I can gauge how size
> affects the pressure.
>
> I have order a .3PSI differential pressure gauge from DigiKey and will
> probably set up a water gauge also. I plan on using air and if I can get a
> building large enough I will hang it from the ceiling for the test.
>
> Now for a couple of questions.
> 1. Does anyone see why this won't be a valid measurement of the delta pressure
> (on the ground with air)?
>
> 2. Anyone have any balloons they want to donate to the experiment? I am in
> Phoenix if that matters.
>
> It will probably be a couple of weeks before I can get everything set up.
>
> Jerry
>
> ---
> *From:* BASE <basedepauw@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 3:56:10 AM
> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>
> Many indoor athletic buildings would meet the 15 meter criteria as would some
> large warehouses.
>
> Howard
>

> --- On *Fri, 9/3/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Pressure and temperature sensors inside balloon
> To: GPSL@yahoogroups.com
> Cc: "Mike Manes" <mrmanes@...>, "BASE" <basedepauw@...>
> Date: Friday, September 3, 2010, 1:06 AM
>
> But like I said too where r u gonna find a 15 meter tall building to do it in?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
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Mike Manes mrmanes@... Tel: 303-979-4899
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8351. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 04:36:49 UTC
From: Mike Manes
Topic: 8294 Message: 8351

1 kPa = 4.01" WC, so 0.1 kPa = 0.401" WC. Either is easily readable
using a common ruler.

On 9/3/2010 11:44, Jerry Gable wrote:
>
>
> Joe,
> The transducer puts out 1V per kPA so the voltage should be around .1V for the
> 600G balloon if you guesses are correct. That will only be .277" of water so
> it won't be readable on a water column.
>
> I'll try it on the small balloon and if you are close I will have to go for
> the much more expensive transducer.
>
> So what is your guess on the curve? I am assuming that you think it will be
> very close to 0 (less that 0.001psi) for most of the time and increase to your
> predicted amount at burst. My guess is it will start climbing around 90% of
> the diameter,
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 9:51:26 AM
> *Subject:* Re: [GPSL] Static balloon internal pressure test
>
> Morning Jerry,
>
> See below,,
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
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>
> On 9/3/2010 11:29 AM, Jerry Gable wrote:
>> So I have decided I am going to do a static test on the ground. I don't have
>> a 3000g balloon to try this on but I do have a 600 gram I will sacrifice for
>> the cause. I think I will get a couple 100g or so balloons so I can gauge
>> how size affects the pressure.
> /*Let me go out on a Limb here, and make these guesses and predictions of what
> the pressures will be. This will be fun.
>
> The 100 Gram my guess of bursting pressure is..... 0.0311 PSI
>

> The 600 Gram balloon guess of Bursting Pressure is..... 0.0101 PSI
>
> Just for the record I'm guessing for the 3000 Gram one it could have been
> ..... 0.0047 PSI*/
>>
>> I have order a .3PSI differential pressure gauge from DigiKey and will
>> probably set up a water gauge also. I plan on using air and if I can get a
>> building large enough I will hang it from the ceiling for the test.
> /*By my guesses will that sensor have good enough low end resolution? Thats if
> I'm even close.*/
>>
>> Now for a couple of questions.
>> 1. Does anyone see why this won't be a valid measurement of the delta
>> pressure (on the ground with air)?
> /*The only thing I see that may be different is temperatures. But of course at
> popping altitudes, it really isn't all that bad. cool but not frigid.*/
>>
>> 2. Anyone have any balloons they want to donate to the experiment? I am in
>> Phoenix if that matters.
> /*Sadly, nope,,
>
> Joe WB9SBD
> Near Space Sciences*/
>>
>> It will probably be a couple of weeks before I can get everything set up.
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>> some large warehouses.
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>> Howard
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>>
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A. Einstein

8352. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 04:50:15 UTC
From: Mike Manes
Topic: 8294 Message: 8352

Hmmm - the chart of pressure in that link show pressures between .097 and 0.98 Atm, or over 10 psi. I don't think one can blow that much pressure by mouth, so I suspect the pressure scale is either wrong or it's absolute pressure vice the differential that we're interested in.

On 9/3/2010 13:50, Jerry Gable wrote:
>
>
> I finally found some balloon pressures here:
> http://scipp.ucsc.edu/outreach/balloon/labs/InflationExp.htm
>
> They don't say what size it is but the comment that 5' diameter is no where
> near burst leads me to believe it is in the 100-200 gram range.
>
> Anyway, from their numbers, it looks like the pressure starts at 0.07psi and
> settles down to 0.03 during the middle inflation period. I would guess that
> burst would be above the initial pressure.
>
> But we still have too many unknowns.
>
>
> ---
> *From:* Jerry Gable <jerrygable@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 12:11:53 PM
> *Subject:* Re: [GPSL] Static balloon internal pressure test
>
> Joe,
>
> I don't have the curve from ARBORNE, is it posted somewhere?
>
> Also while you are predicting, what would you expect as a delta for say a 10"
> party balloon? Probably not even the same material but I may see if I can do a
> simple experiment this weekend.
>
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 11:39:35 AM
> *Subject:* Re: [GPSL] Static balloon internal pressure test
>
> How I came to those numbers is where I used to work, was at a plastic factory
> where we made many specialty plastics. and one of their test equipment was a

> tensile strength test equipment.
>
> you would cut with this Die a special sized piece of the material to be
> tested. And you place it in the machine, and it stretches the test sample till
> it breaks, and you get the tensile strength.
>
> We ran about a dozen tests, and they all were pretty consistent.
>
> I then took that number and used it in the formula to calculate for a given
> diameter of a sphere at what PSI will exceed the tensile strength of the
> surface of the sphere.
>
> And those numbers are what came out.
>
> Now on this,, You ask....
>
> So what is your guess on the curve? I am assuming that you think it will be
> very close to 0 (less that 0.001psi) for most of the time and increase to your
> predicted amount at burst. My guess is it will start climbing around 90% of
> the diameter,
>
> That is hard to say. I'd be willing to say the curve is accurate, But it is a
> very low pressure curve, Sooo, low, that it has little to no effect on the HE
> density and buoyancy factor. I'd like to see what the numbers are, at that
> beginning of fill.
>
> Say my guesses are right? If we take the ARBORNET pressure graph. and say it
> was a 1500 gram balloon,, (I don't remember what it was)
>
> And burst was at the 197 minute point, and on that chart it had a value of
> about 28 on the left side. So say a 28 equals 0.0065 PSI
>
> If this is true and that scale is linear, that those peaks shortly after
> launch would have peaked out at what about, 0.0104 PSI?
>
> After those small peaks, it all dropps from there.
>
> agree? Anyone? Anyone?
>
> Bueller?
>
> Joe WB9SBD
> Near Space Sciences
>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8353. Re: [GPSL] Pressure and temperature sensors inside balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 04:58:43 UTC
From: Mike Manes
Topic: 8294 Message: 8353

The He will rise to the top in the presence of other gasses in the envelope. This is what happens with a ZP balloon. As the envelope rises, the He bubble stays on top, and as it expands, it pushes the air in bottom out the vent. This continues until all the air is expelled and He fills the entire envelope.

But you're right about a He-filled latex. Ain't much air in there - just what might have snuck in when the balloon was rolled out prior to filling.

73 de Mike W5VSI

On 9/3/2010 20:42, Joe wrote:
> In addition,
>
> While HE won't combine with other gasses to form other compounds,, if there
> happen to be other gasses in the envelope, would the HE stratify, (stay at the
> top) if it's lighter, or will it just mix in with the other gasses and become
> a mix of both evenly belended throughout the envelope.
>
> Plus How would this happen anyway? If the gas inthe balloon isn't 100% HE or
> H2, it's gota be awful close. to whatever purity the gas in the bottle was.
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/3/2010 9:27 PM, Mike Manes wrote:
>> The only reason that the pressure will vary between the top and bottom
>> of the balloon would be due to gravity gradient. Period. Makes no
>> difference if the gas species separate inside the envelope. And
>> the gravity gradient in the Earth's atmosphere over a 50 foot difference
>> in elevation is vanishingly small.
>>
>> Consider that pressure is simply due to the recoil of gas molecules
>> striking the interior surface of the envelope - or the diaphragm of
>> a interior pressure transducer. This is basic principle behind the
>> ideal gas law: PV = nRT or P = nRT/V. For constant nRT, P varies
>> inversely with volume, V, and vice versa.
>>
>> 73 de Mike W5VSI
>>

>> On 9/2/2010 11:22, L. Paul Verhage wrote:
>>>
>>> What model is your pressure sensor and where did you get it?
>>> Sounds like we should fly two BalloonSats inside the balloon and interesting
>>> observation about "heavier" air settling into the neck of the balloon.
>>>
>>> On Thu, Sep 2, 2010 at 12:19 PM, Michael Willett<mw@...
>>> <mailto:mw@...>> wrote:
>>>
>>>
>>> To measure pressure inside the balloon, you can do it at least two ways:
>>>
>>> 1) A differential pressure sensor inside the balloon with one side capped
>>> off; this presents a known relative value (the captive part) as a constant
>>> of which you compare the variable pressure of interest inside the balloon.
>>> This is the way to go with the rod sensor mentioned by Howard, where we
>>> want to measure the change in pressure inside the balloon near the center.
>>> This will reflect the change in He pressure in a captive environment with
>>> the variable being the compression created by the latex.
>>>
>>> 2) A standard pressure sensor as shown in the ARBONET presentation at
>>> GPSL-2010 and flown in 2009. This measures the difference in pressure at
>>> the neck of the balloon against the ambient outside pressure plus the
>>> compression provided by the balloon.
>>>
>>> Outside of impurities in the He and the point of measurement, the two
>>> should track relative to each other. The heavier impurities will show up
>>> in the neck of the balloon (standard air caught inside the envelope prior
>>> to inflation) and will show a lower reading overall than the unit sensing
>>> the air in the middle or top of the balloon.
>>>
>>> I would like to see the results if we flew both. That would make for more
>>> gray-matter grinding discussions!
>>>
>>> For sensors, I am using the Freescale 0.3 PSI amplified unit. Provides an
>>> analog output that is already corrected over a standard temperature range,
>>> and runs +/- for those areas we may see actual vacuum in the neck.
>>>
>>> --Michael
>>> K5NOT
>>>
>>>
>>>
>>>
>>> On 9/2/2010 11:21 AM, Joe wrote:
>>>> And temperature does indeed effect lift greatly.
>>>>
>>>> Joe WB9SBD
>>>>
>>>> The Original Rolling Ball Clock

>>>> Idle Tyme
>>>> Idle-Tyme.com
>>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>>
>>>> On 9/2/2010 11:13 AM, Jerry Gable wrote:
>>>>> But they do show the temperature inside the balloon and it doesn't look
>>>>> out of line with the outside temperature.
>>>>>
>>>>> Differential pressure and temperature would be ideal.
>>>>>
>>>>> ---
>>>>> *From:* Joe<nss@...> <mailto:nss@...>
>>>>> *To:*GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>>>> *Sent:* Thu, September 2, 2010 9:01:58 AM
>>>>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>>>>
>>>>> I just looked at that PDF, and it isn't what we need.
>>>>>
>>>>> It is a simple pressure ambient pressure. What numbers we need are
>>>>> differential pressure.
>>>>>
>>>>> Not what the pressure is inside the balloon. But what the difference
>>>>> is between inside and outside the balloon.
>>>>>
>>>>> Joe WB9SBD
>>>>>
>>>>> The Original Rolling Ball Clock
>>>>> Idle Tyme
>>>>> Idle-Tyme.com<http://idle-tyme.com/>
>>>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>>>
>>>>> On 9/2/2010 10:50 AM, BASE wrote:
>>>>>> Minnesota and Taylor have both flown sensors inside the balloon. Taylor has done it
many times.
>>>>>>
>>>>>> The following link shows how James Flaten's students did it at Minnesota.
>>>>>>
>>>>>> http://www.taylor.edu/dotAsset/177043.pdf
>>>>>>
>>>>>>
>>>>>> I know that Taylor partially inflates their balloons before inserting the sensor
stick.
>>>>>>
>>>>>>
>>>>>> Howard
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>>>>>> ------------------------------------
>>>>>>
>>>>>> Yahoo! Groups Links
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>>>>>>
>>>>>>
>>>>>>
>>>
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>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8354. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 05:06:04 UTC
From: Mike Manes
Topic: 1529 Message: 8354

I got those numbers from Wolfram-Alpha: http://www.wolframalpha.com/
Try it. You'll like it!

All I'm trying to point out is that the internal pressure in a latex
balloon will compress the fill gas and thus reduce its lift compared
to a zero-pressure condition. At the altitudes we fly, that effect
is minimal, but getting way up above 120K', it can cause lift to decay,
perhaps to the point that there's no free lift left.

This >won't< happen with a ZP balloon, and that's probably why ZPs are
used for the really tall flights.

73 de Mike W5VSI

On 9/3/2010 21:02, Joe wrote:
> Ok, Ya lost me,
>
> Break this down some please Mike.
>
> Where you got these numbers,,, and why you are using them in what way.
>
> it's either late or i just lost all meaning of your whole message.
>
> Sorry,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/3/2010 9:56 PM, Mike Manes wrote:
>> 3.7 hectopascals equals 1.5 inches of water, and also the barometric pressure
>> at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
>> the 126K' baro pressure. That means the balloon volume would be only
>> half that of an unconstrained bolus of He at that altitude, and the
>> density of balloon gas would thus be twice what we would assume,
>> perhaps enough to kill off the excess lift needed to sustain an ascent.
>>
>> This could explain the loss of lift that we saw.
>>
>> 73 de Mike W5VSI
>>
>> On 9/2/2010 14:28, Jerry Gable wrote:
>>> 3.7 hectopascals

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8355. Re: [GPSL] New file uploaded to GPSL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 05:07:33 UTC
From: Mike Manes
Topic: 1529 Message: 8355

What Jerry said ...
- Mike

On 9/3/2010 21:26, Jerry Gable wrote:
>
>
> I think the 3.7 hPa came from my misreading of the Kaymont tables. But what he
> is saying is if the pressure in the balloon is higher than the external
> pressure the balloon will have less lift.
>
> I think his point is if the internal pressure is slightly higher inside the
> balloon then there will be a loss of lift from the He. My calculations are
> that tha pressure needs to be about 0.01 to show the loss in lift from the
> balloon that started this.
>
> That is about 10x what you believe it to be. Again I think we need some actual
> measurements to prove or disprove this cause.
>
> But there is always the meteor theory.
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 8:02:43 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
> Ok, Ya lost me,
>
> Break this down some please Mike.
>
> Where you got these numbers,,, and why you are using them in what way.
>
> it's either late or i just lost all meaning of your whole message.
>
> Sorry,
>
> Joe
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>> at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
>> the 126K' baro pressure. That means the balloon volume would be only
>> half that of an unconstrained bolus of He at that altitude, and the
>> density of balloon gas would thus be twice what we would assume,
>> perhaps enough to kill off the excess lift needed to sustain an ascent.
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>> This could explain the loss of lift that we saw.
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A. Einstein

8356. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 05:15:58 UTC
From: Joe
Topic: 8294 Message: 8356
Attachments: 1 described; binary payloads are missing from this source WARC

My Guess for the 600 balloon with the water column method would work
out to

0.0065 pound/square inch = 0.179 919 381 48 Water Column [inch]

Now I'm not sure. that with a water column that has an area of 1 square
inch right? IE: a tube with a ID of 0.5625 will equal a 1 square inch
surface area.

Now If I remember right, the surface area is what counts where the
pressure presses on the water?

so if the opening to the water at the balloon neck is 0.5625 is has
the 1 square inch area. BUT......

if you make the tubing smaller after that,, then you can act as a
multiplier, If i remember correctly. Like if the tubing is 1/2 square
inch in area, then the water column will be twice as accurate motion
wise. 1/4 square inch area, 4 times the accuracy IE 1 square inch of
pressure would move the water up 4 inches.

If i remember this correctly.

Your Mileage May Vary..

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/3/2010 11:36 PM, Mike Manes wrote:
> 1 kPa = 4.01" WC, so 0.1 kPa = 0.401" WC. Either is easily readable
> using a common ruler.
>
> On 9/3/2010 11:44, Jerry Gable wrote:
>>
>> Joe,
>> The transducer puts out 1V per kPA so the voltage should be around .1V for the
>> 600G balloon if you guesses are correct. That will only be .277" of water so
>> it won't be readable on a water column.
>>
>> I'll try it on the small balloon and if you are close I will have to go for
>> the much more expensive transducer.

>>
>> So what is your guess on the curve? I am assuming that you think it will be
>> very close to 0 (less that 0.001psi) for most of the time and increase to your
>> predicted amount at burst. My guess is it will start climbing around 90% of
>> the diameter,
>>
>> ---
>> *From:* Joe<nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Fri, September 3, 2010 9:51:26 AM
>> *Subject:* Re: [GPSL] Static balloon internal pressure test
>>
>> Morning Jerry,
>>
>> See below,,
>>
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com<http://Idle-Tyme.com>
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>>
>> On 9/3/2010 11:29 AM, Jerry Gable wrote:
>>> So I have decided I am going to do a static test on the ground. I don't have
>>> a 3000g balloon to try this on but I do have a 600 gram I will sacrifice for
>>> the cause. I think I will get a couple 100g or so balloons so I can gauge
>>> how size affects the pressure.
>> /*Let me go out on a Limb here, and make these guesses and predictions of what
>> the pressures will be. This will be fun.
>>
>> The 100 Gram my guess of bursting pressure is..... 0.0311 PSI
>>
>> The 600 Gram balloon guess of Bursting Pressure is..... 0.0101 PSI
>>
>> Just for the record I'm guessing for the 3000 Gram one it could have been
>> ..... 0.0047 PSI*/
>>> I have order a .3PSI differential pressure gauge from DigiKey and will
>>> probably set up a water gauge also. I plan on using air and if I can get a
>>> building large enough I will hang it from the ceiling for the test.
>> /*By my guesses will that sensor have good enough low end resolution? Thats if
>> I'm even close.*/
>>> Now for a couple of questions.
>>> 1. Does anyone see why this won't be a valid measurement of the delta
>>> pressure (on the ground with air)?
>> /*The only thing I see that may be different is temperatures. But of course at
>> popping altitudes, it really isn't all that bad. cool but not frigid.*/
>>> 2. Anyone have any balloons they want to donate to the experiment? I am in
>>> Phoenix if that matters.
>> /*Sadly, nope,,
>>

>> Joe WB9SBD
>> Near Space Sciences*/
>>> It will probably be a couple of weeks before I can get everything set up.
>>>
>>> Jerry
>>>
>>> ---
>>> *From:* BASE<basedepauw@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Fri, September 3, 2010 3:56:10 AM
>>> *Subject:* Re: [GPSL] Pressure and temperature sensors inside balloon
>>>
>>> Many indoor athletic buildings would meet the 15 meter criteria as would
>>> some large warehouses.
>>>
>>> Howard
>>>
>>> --- On *Fri, 9/3/10, Joe /<nss@...>/* wrote:
>>>
>>>
>>> From: Joe<nss@...>
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>>> To: GPSL@yahoogroups.com
>>> Cc: "Mike Manes"<mrmanes@...>, "BASE"<basedepauw@...>
>>> Date: Friday, September 3, 2010, 1:06 AM
>>>
>>> But like I said too where r u gonna find a 15 meter tall building to do
>>> it in?
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>>> On 9/3/2010 12:02 AM, Mike Manes wrote:
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>>>> one would expect to be just slightly greater than the ambient air pressure.
>>>> How much greater really can't be determined to any degree of accuracy from
>>>> this experiment, even if the ambient pressure were measured separately, due
>>>> to the "small differences in large numbers" effect.
>>>>
>>>> Now I know this experiment was intended to test the ideal gas law, so those
>>>> methods were valid, except for the rather coarse determination of the balloon
>>>> volume from its image.
>>>>
>>>> I think what we need is an accurate measurement of the differential
>>>> pressure that's forcing the latex envelope to expand. And y'know?
>>>> That could be done on the deck with a tethered balloon and a simple

>>>> water manometer. Not as much fun as flying, tho. And it wouldn't
>>>> create any head-scratching about what the Bernoulli effects of the
>>>> airflow over the
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>>>>> The following link shows how James Flaten's students did it at Minnesota.
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>>>>> http://www.taylor.edu/dotAsset/177043.pdf
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8357. Re: [GPSL] Static balloon internal pressure test

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 05:20:54 UTC
From: Mike Manes
Topic: 8294 Message: 8357

Tubing diameter is irrelevant. The larger area of a larger tube does
yield more net force on the column, but that's perfectly balanced by
the larger weight of the displaced column.

Wiki "manometer".

This is the way HVAC tech check gas pressure.

A water manometer can be made more sensitive by slanting it, so a
given vertical displacement yields a larger lateral displacement.
This is used in some pitot tube type anemometers.

73 de Mike W5VSI

On 9/3/2010 23:15, Joe wrote:
> My Guess for the 600 balloon with the water column method would work out to
>
> 0.0065 pound/square inch = 0.179 919 381 48 Water Column [inch]
>
> Now I'm not sure. that with a water column that has an area of 1 square inch
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Yahoo group: GPSL (2009 — 2010)
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Topic: 1529 Message: 8358
Attachments: 1 described; binary payloads are missing from this source WARC

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>
> I think the 3.7 hPa came from my misreading of the Kaymont tables.

Ahh OK,
> But what he is saying is if the pressure in the balloon is higher
> than the external pressure the balloon will have less lift.
ABSOLUTELY!, that's how super Pressure balloons work.
>
> I think his point is if the internal pressure is slightly higher
> inside the balloon then there will be a loss of lift from the He.
Yup, IF there is any higher pressure, it will lift less because it is
denser than it would be if the pressures were equal.
> My calculations are that tha pressure needs to be about 0.01 to show
> the loss in lift from the balloon that started this.
0.01 PSI? differential.

Ok, I calculate that the balloon at burst was only 73% filled. so how
much pressure there was, is questionable. But it was a volume of 847
cubic meters. which means it is displacing 847 cubic meters of "Air"
which weighs 4828 grams.

ambient air pressure is,
0.057772 PSI, Sooooo, say the balloon now stays at this pressure, it
can not expand anymore, the outside pressure has to drop to, 0.047772
PSI to give you the 0.01 PSI differential right? and at that pressure
differential a cubic meter of "Air" weighs 0.0046 Kg,

soooo, that density of the volume displaced weighs, 3300 grams. thats
now the balloon has gained weight by 1528 grams. far more than enough
to cancel out the little over 700 grams of lift you had true.

But myself I don't think the balloon would be able to build up 0.01 PSI.
of pressure.

This stuff is a blast! he he he

Joe WB9SBD
Near Space Sciences

>
> That is about 10x what you believe it to be. Again I think we need
> some actual measurements to prove or disprove this cause.
>
> But there is always the meteor theory.
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> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, September 3, 2010 8:02:43 PM
> *Subject:* Re: [GPSL] New file uploaded to GPSL
>
> Ok, Ya lost me,
>
> Break this down some please Mike.
>
> Where you got these numbers,,, and why you are using them in what way.
>
> it's either late or i just lost all meaning of your whole message.
>
> Sorry,
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 9/3/2010 9:56 PM, Mike Manes wrote:
>> 3.7 hectopascals equals 1.5 inches of water, and also the barometric pressure
>> at 126K'. So a 3000 gm latex would have an internal pressure 2x that of
>> the 126K' baro pressure. That means the balloon volume would be only
>> half that of an unconstrained bolus of He at that altitude, and the
>> density of balloon gas would thus be twice what we would assume,
>> perhaps enough to kill off the excess lift needed to sustain an ascent.
>>
>> This could explain the loss of lift that we saw.
>>
>> 73 de Mike W5VSI
>>
>> On 9/2/2010 14:28, Jerry Gable wrote:
>>> 3.7 hectopascals
>
>
>

8359. Balloon Internal Pressure.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 14:15:58 UTC
From: Joe
Topic: 8359 Message: 8359
Attachments: 1 described; binary payloads are missing from this source WARC

Thinking More here,

I know a scary think me thinking.

The pressure chart of the ARBORNET guys. Looks like we can or should be if we get a good enough sensor to monitor the pressure to note when the pressure suddenly starts to rise before burst. It could be I suspect even be automated, that after it reaches a below a certain low point, zero or near zero according to that graph. once it hits that point it resets the system then whenever the pressure rises above say when ever the pressure at 5 or higher it opens a valve to let this pressure out. Once it gets below 5 it closes. it could be automatic. and of course make a equivalent of a zero pressure PE balloon.

I also thought the idea of venting gas to have the payload come down under the control of the balloon. Like we did on a two balloon flight we did.

But if that pressure curve is correct, we probably won't be able to do that. because once we loose the pressure of before burst we are down to zero pressure, and it shouldn't vent anymore.

hmmmmm?

Joe WB9SBD
Near Space Sciences
--

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8360. Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 15:37:26 UTC
From: Mark Caviezel
Topic: 8360 Message: 8360

I used a free body analysis technique, control plane through the equator of the balloon, and came up with internal pressure numbers of around 0.01 psi at Earth Surface. This shows correlation with Joe's numbers.

0.1 psi is MUCH more than we'll see in a latex balloon.

Comment: it's hard to beat a water manometer for making the measurements that Jerry wants to do. I will suggest use of a 10:1 slope in the leg that you're reading, will allow you much greater granularity than using a vertical leg. Back when we were still learning about how to build zero pressure balloons, we conducted a bunch of calibrated manometer inflations of ZP's to verify that the material and seam strength as built was the same as the multiple coupon samples that we tested to yield and failure. I use a variac'ed leaf blower to produce a variable pressure air source.

Comment: let's not forget that the pressure is not uniform throughout the balloon (for a balloon filled with buoyant gas): It is highest on top. Remember the 3rd grade science demonstration of a water filled bucket with holes in the side? The hole on bottom has the highest hydrostatic pressure, and the lateral stream of water shoots our further than the hole half way down the side of the bucket. Flip that bucket upside down and fill it with rising helium rather than falling water and you'll get the same effect.

best

- Mark

8361. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 15:52:01 UTC
From: Robert Rochte
Topic: 8360 Message: 8361

Thanks for the insightful comments, Mark, as always. I've been watching this thread and just biting my tongue at times. I almost added a little story about pressure testing my cylindrical superpressure design to failure by sealing a big chunk of dry ice inside, but decided to save that for another time....

Mike's comments and yours about the water manometre were especially helpful... It's amazing how even those of us who are accustomed to finding the most off-the-wall solutions (e.g., my ex describes - with great disdain - my early solar Montgolfiere experiments as "flying trash bags into the sky") can overlook such a fundamental instrument. Enough of these damned transducers already - it's back to making glassware over a Bunsen for me! :)

73,
Robert
KC8UCH

8362. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 17:03:43 UTC
From: ccccrnr@aim.com
Topic: 8311 Message: 8362

I have the VX-8R and depended on it (along with the internet) at GPSL 2010 to track and find our ROBOMO1 balloon

I got it off ebay last year for ~$355+shipping for just the radio.

It is a great radio after you devote the time to learning to use, but I'd suggest getting the software, mic cable, and gps, from guys I seen with that stuff, those solves hours/days of frustration getting it setup into the nice tracking, packeting, quad-band it can be.

Carlton

-----Original Message-----
From: Tim <sarbresam@...>
To: GPSL <GPSL@yahoogroups.com>
Sent: Thu, Sep 2, 2010 1:53 pm
Subject: Re: [GPSL] Hand Held APRS

Yes, I am talking about tracking on the ground. Brenden is using the trackers from Byonics, Allen and Byron have been a great resource.

Tim

From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 3:50:20 PM
Subject: Re: [GPSL] Hand Held APRS

I haven't used them but have you looked at the APRS trackers from Byonics or Big Red Bee? I am thinking about getting one as a backup tracker so I am interested how they worked out for other's.

Unless of course you are talking about the ground radio then never mind :)

http://www.bigredbee.com/
http://www.byonics.com/microtrak/mt8000fa.php

From: Tim <sarbresam@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 2, 2010 3:34:33 PM
Subject: [GPSL] Hand Held APRS

I am looking to purchase a hand held radio capable of APRS for my son Brenden KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for $430 plus GPS module, I am hoping for something a little less expensive. I have heard of them going for less on eBay. I was wondering what others on this list are using to track their payloads.

Thanks,
Tim KJ6HSX

8363. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 18:13:36 UTC
From: Joe
Topic: 8360 Message: 8363
Attachments: 1 described; binary payloads are missing from this source WARC

See Below,,,

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http://www.idle-tyme.com

On 9/4/2010 10:37 AM, Mark Caviezel wrote:
>
>
> I used a free body analysis technique, control plane through the
> equator of the balloon, and came up with internal pressure numbers of
> around 0.01 psi at Earth Surface. This shows correlation with Joe's
> numbers.
>
Cool!
>
> 0.1 psi is MUCH more than we'll see in a latex balloon.
>
Agreed! Almost by a factor of Ten. BUT,, I may be a little light on the pressure capabilities by the nature of our tester that tested the tensile strength of the balloon material. I'm thinking it may be in the real world a little higher, Because of when die cutting the test samples any microscopic nicks and dings in the cutting edge must add a possible defect to the edge of the test sample I would think, and cause the sample to break slightly prematurely at these defect points. I would think.. the Die looks perfect, but what really is ya know?
>
> Comment: it's hard to beat a water manometer for making the
> measurements that Jerry wants to do. I will suggest use of a 10:1
> slope in the leg that you're reading, will allow you much greater
> granularity than using a vertical leg. Back when we were still
> learning about how to build zero pressure balloons, we conducted a
> bunch of calibrated manometer inflations of ZP's to verify that the
> material and seam strength as built was the same as the multiple
> coupon samples that we tested to yield and failure. I use a
> variac'ed leaf blower to produce a variable pressure air source.
>
I like the leaf blower he he he I hope some duct tape too! *What PSI is the average leaf blower capable of making?*
>
> Comment: let's not forget that the pressure is not uniform throughout
> the balloon (for a balloon filled with buoyant gas): It is highest on

> top. Remember the 3rd grade science demonstration of a water filled
> bucket with holes in the side? The hole on bottom has the highest
> hydrostatic pressure, and the lateral stream of water shoots our
> further than the hole half way down the side of the bucket. Flip
> that bucket upside down and fill it with rising helium rather than
> falling water and you'll get the same effect.
>
*This I also will agree with. and it may answer why just before the balloon nears burst diameters on the ARBORNET graphs that the pressure says zero or even vacuum. The amount of stress from the LARGE latex isn't strong enough yet to over come the stratification effects.

But I would think once the balloon starts to pressureize, the the internal pressures would even out.

Now here is where that long tube with several differential sensors to measure various heights in the balloon would be very interesting.

Joe WB9SBD*
>
> best
>
> - Mark
>
>
>
>

8364. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 21:42:48 UTC
From: Jerry Gable
Topic: 8360 Message: 8364

So from the conversation here is what I think the consensus is.

0.01psi is probably typical for the internal pressure on a large balloon.
On the ground with air the pressure will be pretty consistent throughout the balloon.
With helium there will be a pressure gradient with the highest pressure at the top of the balloon.
This may explain the 0 pressure ARBORNET saw during part of the flight if their sensor was near the bottom of the balloon.
And this is why zero pressure balloons don't loose all of their helium.
A Manometer is going to be the most accurate way to measure this pressure
Slant the tube to increase the movement of water and ease of reading.

I have also found a graph that claims the pressure as the balloon inflates will initially be high and almost immediately drop to about 1/2 this initial value.
The pressure will then rise slowly but linearly until it is significantly higher than the initial high pressure at burst.

What is your favorite formula for predicting ascent rate? I have found several formulas and the answers vary by 2 to 3 X from each other.

And last, are you guys getting tired of the speculation? Should some of us take this offline and maybe only post results here?
Personally I would like to here all of your opinions on this.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 4, 2010 11:13:36 AM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

See Below,,,

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/4/2010 10:37 AM, Mark Caviezel wrote:

>I used a free body analysis technique, control plane through the
>equator of the balloon, and came up with internal pressure numbers
>of around 0.01 psi at Earth Surface. This shows correlation
>with Joe's numbers.

>
> Cool!

>0.1 psi is MUCH more than we'll see in a latex balloon.
> Agreed! Almost by a factor of Ten. BUT,, I may be a little light on the
>pressure capabilities by the nature of our tester that tested the tensile
>strength of the balloon material. I'm thinking it may be in the real
>world a little higher, Because of when die cutting the test samples any
>microscopic nicks and dings in the cutting edge must add a possible defect
>to the edge of the test sample I would think, and cause the sample to
>break slightly prematurely at these defect points. I would think.. the
>Die looks perfect, but what really is ya know?

>Comment: it's hard to beat a water manometer for making the
>measurements that Jerry wants to do. I will suggest use of a
>10:1 slope in the leg that you're reading, will allow you much
>greater granularity than using a vertical leg. Back when we were
>still learning about how to build zero pressure balloons, we
>conducted a bunch of calibrated manometer inflations of ZP's to
>verify that the material and seam strength as built was the same
>as the multiple coupon samples that we tested to yield and
>failure. I use a variac'ed leaf blower to produce a variable
>pressure air source.
>
> I like the leaf blower he he he I hope some duct tape too! What PSI is
>the average leaf blower capable of making?

>Comment: let's not forget that the pressure is not uniform
>throughout the balloon (for a balloon filled with buoyant gas):
>It is highest on top. Remember the 3rd grade science
>demonstration of a water filled bucket with holes in the side?
>The hole on bottom has the highest hydrostatic pressure, and the
>lateral stream of water shoots our further than the hole half way
>down the side of the bucket. Flip that bucket upside down and
>fill it with rising helium rather than falling water and you'll
>get the same effect.
>
> This I also will agree with. and it may answer why just before the
>balloon nears burst diameters on the ARBORNET graphs that the pressure
>says zero or even vacuum. The amount of stress from the LARGE latex isn't
>strong enough yet to over come the stratification effects.

But I would think once the balloon starts to pressureize, the the
internal pressures would even out.

Now here is where that long tube with several differential sensors to
measure various heights in the balloon would be very interesting.

Joe WB9SBD

>best
>

>- Mark
>
>

8365. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 21:56:00 UTC
From: Robert Rochte
Topic: 8360 Message: 8365

With regard to your last question, I think that speculation is always good... Personally, I'm enjoying the thread.

-R

8366. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 22:37:45 UTC
From: Jerry Gable
Topic: 8360 Message: 8366

Here is my Fill and measurement device. The copper tube up the middle is the measurement port. The rubber ball on the end is to help prevent adding a "rapid deflation port" to the balloon. The grid is 1/2" in case you are trying to figure out the scale. Comments are always welcome.

http://dl.dropbox.com/u/9446302/MeasureAndFill.jpg

Jerry

From: Robert Rochte <rrochte@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 4, 2010 2:56:00 PM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

With regard to your last question, I think that speculation is always good... Personally, I'm enjoying the thread.

-R

8367. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 23:08:34 UTC
From: Joe
Topic: 8360 Message: 8367
Attachments: 1 described; binary payloads are missing from this source WARC

Is this for the ground based static test?

Joe

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/4/2010 5:37 PM, Jerry Gable wrote:
>
>
> Here is my Fill and measurement device. The copper tube up the middle
> is the measurement port. The rubber ball on the end is to help
> prevent adding a "rapid deflation port" to the balloon. The grid is
> 1/2" in case you are trying to figure out the scale. Comments are
> always welcome.
>
> http://dl.dropbox.com/u/9446302/MeasureAndFill.jpg
>
> Jerry
>
> ---
> *From:* Robert Rochte <rrochte@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 4, 2010 2:56:00 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> With regard to your last question, I think that speculation is always
> good... Personally, I'm enjoying the thread.
>
> -R
>
>
>
>

8368. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-04 23:13:25 UTC
From: Jerry Gable
Topic: 8360 Message: 8368

Yes, it is for te ground test. It's a little heavy for flight.
-----Original Message-----
From: Joe <nss@mwt.net>
Sender: GPSL@yahoogroups.com
Date: Sat, 04 Sep 2010 18:08:34
To: <GPSL@yahoogroups.com>
Reply-To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

Is this for the ground based static test?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
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On 9/4/2010 5:37 PM, Jerry Gable wrote:
>
>
> Here is my Fill and measurement device. The copper tube up the middle
> is the measurement port. The rubber ball on the end is to help
> prevent adding a "rapid deflation port" to the balloon. The grid is
> 1/2" in case you are trying to figure out the scale. Comments are
> always welcome.
>
> http://dl.dropbox.com/u/9446302/MeasureAndFill.jpg
>
> Jerry
>
> ---
> *From:* Robert Rochte <rrochte@gpacademy.org>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 4, 2010 2:56:00 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> With regard to your last question, I think that speculation is always
> good... Personally, I'm enjoying the thread.
>
> -R
>
>
>
>

8369. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 00:18:48 UTC
From: Joe
Topic: 8360 Message: 8369
Attachments: 1 described; binary payloads are missing from this source WARC

On 9/4/2010 4:42 PM, Jerry Gable wrote:
>
>
> So from the conversation here is what I think the consensus is.
>
> I have also found a graph that claims the pressure as the balloon
> inflates will initially be high and almost immediately drop to about
> 1/2 this initial value. The pressure will then rise slowly but
> linearly until it is significantly higher than the initial high
> pressure at burst.
Where did you find that one?

It seems different from the arbornet one, Where it does start high but then slowly drops through what 75% of the flight to then run at almost zero for a while to only rise quickly at the end.

>
> What is your favorite formula for predicting ascent rate? I have
> found several formulas and the answers vary by 2 to 3 X from each other.
Same here, our flights never match the "Predicted" rates. We NEVER EVER come close to the lift suggested and used by others.

Our regardless of payload and or balloon always go by total free lift Balloon, payload and all. And after 20+ years this is what we do, and what we have had. I can not explain why the numbers do not match the "Formulas" But be it a simple tracker only that weighs 3/4 pound, or a pair of payloads and we are at the legal limit of 12 pounds, we always fly the same free lift.

And the amount is only determined by two things. and that is still only two. and they are weighed against eachother

One is landing location, do we need the flight to go faster to shorten the landing zone, or slower to cross over a different zone. But the amounts we fly are as follows.

Winds conditions. Dead Calm to 10 Mph surface winds 8 ounces of positive lift.

10 to 20 MPh 1 pound.

Over 20 MPh 2 Pounds.
Thats it!

And that is all we have ever done.

And the rate of climb has also been pretty consistent too

8 oz lift 600 to 700 maybe 750 max.

1 pound lift 700 to 900

2 pounds 900 to 1100

This is regardless if the payload weighs 10 oz or 10 pounds! an TA 300
balloon or a TA 2000 balloon.
>
> And last, are you guys getting tired of the speculation?

Absolutely not. I'm just sorry the new group for discussions like this
is not ready yet. so all this archived stuff doesn't get orphaned in the
GPSL list here.
> Should some of us take this offline and maybe only post results here?
Me say NO. The more minds the better. I feel if they do not want to
read any of this stuff the delete click is pretty easy.
> Personally I would like to here all of your opinions on this.

YUP!!!
>
> Jerry
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 4, 2010 11:13:36 AM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> *See Below,,,*
>
> The Original Rolling Ball Clock
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>> I used a free body analysis technique, control plane through the
>> equator of the balloon, and came up with internal pressure numbers of
>> around 0.01 psi at Earth Surface. This shows correlation with Joe's
>> numbers.
>>
> *Cool!*
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>> 0.1 psi is MUCH more than we'll see in a latex balloon.
>>
> *Agreed! Almost by a factor of Ten. BUT,, I may be a little light on
> the pressure capabilities by the nature of our tester that tested the
> tensile strength of the balloon material. I'm thinking it may be in
> the real world a little higher, Because of when die cutting the test
> samples any microscopic nicks and dings in the cutting edge must add a
> possible defect to the edge of the test sample I would think, and

> cause the sample to break slightly prematurely at these defect
> points. I would think.. the Die looks perfect, but what really is ya
> know?*
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>> learning about how to build zero pressure balloons, we conducted a
>> bunch of calibrated manometer inflations of ZP's to verify that the
>> material and seam strength as built was the same as the multiple
>> coupon samples that we tested to yield and failure. I use a
>> variac'ed leaf blower to produce a variable pressure air source.
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> *I like the leaf blower he he he I hope some duct tape too!* *What
> PSI is the average leaf blower capable of making?
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>> Comment: let's not forget that the pressure is not uniform
>> throughout the balloon (for a balloon filled with buoyant gas): It
>> is highest on top. Remember the 3rd grade science demonstration of
>> a water filled bucket with holes in the side? The hole on bottom has
>> the highest hydrostatic pressure, and the lateral stream of water
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>> bucket. Flip that bucket upside down and fill it with rising helium
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> balloon nears burst diameters on the ARBORNET graphs that the
> pressure says zero or even vacuum. The amount of stress from the
> LARGE latex isn't strong enough yet to over come the stratification
> effects.
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> But I would think once the balloon starts to pressureize, the the
> internal pressures would even out.
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> Now here is where that long tube with several differential sensors to
> measure various heights in the balloon would be very interesting.
>
> Joe WB9SBD*
>>
>> best
>>
>> - Mark
>>
>
>
>

8370. Re: [GPSL] Balloon Internal Pressure.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 02:46:42 UTC
From: Mike Manes
Topic: 8359 Message: 8370

That's perzactly how Space Data controls its balloon-borne cell sites.
See:
http://www.spacedata.net/documents/SkySite_Telemetry_Overview_Jan06.pdf
That's more of a sales brochure, but it does give you an idea of how
their system works. Their CEO gave a technical presentation a the
SWRI LCANS Conference a couple of years ago.

73 de Mike W5VSI

On 9/4/2010 08:15, Joe wrote:
> Thinking More here,
>
> I know a scary think me thinking.
>
> The pressure chart of the ARBORNET guys. Looks like we can or should be if we
> get a good enough sensor to monitor the pressure to note when the pressure
> suddenly starts to rise before burst. It could be I suspect even be automated,
> that after it reaches a below a certain low point, zero or near zero according
> to that graph. once it hits that point it resets the system then whenever the
> pressure rises above say when ever the pressure at 5 or higher it opens a
> valve to let this pressure out. Once it gets below 5 it closes. it could be
> automatic. and of course make a equivalent of a zero pressure PE balloon.
>
> I also thought the idea of venting gas to have the payload come down under the
> control of the balloon. Like we did on a two balloon flight we did.
>
> But if that pressure curve is correct, we probably won't be able to do that.
> because once we loose the pressure of before burst we are down to zero
> pressure, and it shouldn't vent anymore.
>
> hmmmmm?
>
> Joe WB9SBD
> Near Space Sciences
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8371. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 02:54:45 UTC
From: Mike Manes
Topic: 8360 Message: 8371

Hi Robert,

Save yourself some trouble and make your manometer out of clear Tygon
tubing. And for static fill for pressure tests, I think one could
just use the hose from the Bunsen burner to fill with methane (CH4)
rather than wasting that non-renewable resource, He.

73 de Mike W5VSI

On 9/4/2010 09:52, Robert Rochte wrote:
>
>
> Thanks for the insightful comments, Mark, as always. I've been watching this
> thread and just biting my tongue at times. I almost added a little story
> about pressure testing my cylindrical superpressure design to failure by
> sealing a big chunk of dry ice inside, but decided to save that for another
> time....
> Mike's comments and yours about the water manometre were especially
> helpful... It's amazing how even those of us who are accustomed to finding
> the most off-the-wall solutions (e.g., my ex describes - with great disdain -
> my early solar Montgolfiere experiments as "flying trash bags into the sky")
> can overlook such a fundamental instrument. Enough of these damned
> transducers already - it's back to making glassware over a Bunsen for me! :)
> 73,
> Robert
> KC8UCH
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8372. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 03:09:19 UTC
From: Joe
Topic: 8360 Message: 8372
Attachments: 1 described; binary payloads are missing from this source WARC

I thought he was gonna use just plain "AIR" and hang it up side down.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/4/2010 9:54 PM, Mike Manes wrote:
> Hi Robert,
>
> Save yourself some trouble and make your manometer out of clear Tygon
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> just use the hose from the Bunsen burner to fill with methane (CH4)
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> 73 de Mike W5VSI
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>> Thanks for the insightful comments, Mark, as always. I've been watching this
>> thread and just biting my tongue at times. I almost added a little story
>> about pressure testing my cylindrical superpressure design to failure by
>> sealing a big chunk of dry ice inside, but decided to save that for another
>> time....
>> Mike's comments and yours about the water manometre were especially
>> helpful... It's amazing how even those of us who are accustomed to finding
>> the most off-the-wall solutions (e.g., my ex describes - with great disdain -
>> my early solar Montgolfiere experiments as "flying trash bags into the sky")
>> can overlook such a fundamental instrument. Enough of these damned
>> transducers already - it's back to making glassware over a Bunsen for me! :)
>> 73,
>> Robert
>> KC8UCH
>>
>>
>>

8373. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 03:09:06 UTC
From: Mike Manes
Topic: 8360 Message: 8373

Hi Mark,

I don't think the water-in-bucket experiment works with light gasses,
where molecules are not bound into a fluid, but are free to fly about
randomly. Consider, if one were to take both experiments into a
zero-gravity environment, you wouldn't see the same results as on a
terrestrial surface. Given that, then any pressure gradient along
a vertical axis in the balloon would be due to gravitational effects.
See my earlier post.

But I'm open to seeing contrary experimental results.

73 de Mike W5VSI

On 9/4/2010 09:37, Mark Caviezel wrote:
>
>
> I used a free body analysis technique, control plane through the equator of
> the balloon, and came up with internal pressure numbers of around 0.01 psi at
> Earth Surface. This shows correlation with Joe's numbers.
>
> 0.1 psi is MUCH more than we'll see in a latex balloon.
>
> Comment: it's hard to beat a water manometer for making the measurements that
> Jerry wants to do. I will suggest use of a 10:1 slope in the leg that you're
> reading, will allow you much greater granularity than using a vertical leg.
> Back when we were still learning about how to build zero pressure balloons, we
> conducted a bunch of calibrated manometer inflations of ZP's to verify that
> the material and seam strength as built was the same as the multiple coupon
> samples that we tested to yield and failure. I use a variac'ed leaf blower to
> produce a variable pressure air source.
>
> Comment: let's not forget that the pressure is not uniform throughout the
> balloon (for a balloon filled with buoyant gas): It is highest on top.
> Remember the 3rd grade science demonstration of a water filled bucket with
> holes in the side? The hole on bottom has the highest hydrostatic pressure,
> and the lateral stream of water shoots our further than the hole half way down
> the side of the bucket. Flip that bucket upside down and fill it with rising
> helium rather than falling water and you'll get the same effect.
>
> best
>
> - Mark
>
>
>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8374. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 03:11:52 UTC
From: Mike Manes
Topic: 8311 Message: 8374

Yaesu user interfaces are notoriously User Hostile. Don't leave the
user manual behind when setting out on a recovery!

73 de Mike W5VSI

On 9/4/2010 11:03, ccccrnr@... wrote:
>
>
> I have the VX-8R and depended on it (along with the internet) at GPSL 2010 to
> track and find our ROBOMO1 balloon
>
> I got it off ebay last year for ~$355+shipping for just the radio.
>
> It is a great radio after you devote the time to learning to use, but I'd
> suggest getting the software, mic cable, and gps, from guys I seen with that
> stuff, those solves hours/days of frustration getting it setup into the nice
> tracking, packeting, quad-band it can be.
>
> Carlton
>
> -----Original Message-----
> From: Tim <sarbresam@...>
> To: GPSL <GPSL@yahoogroups.com>
> Sent: Thu, Sep 2, 2010 1:53 pm
> Subject: Re: [GPSL] Hand Held APRS
>
> Yes, I am talking about tracking on the ground. Brenden is using the trackers
> from Byonics, Allen and Byron have been a great resource.
>
> Tim
>
> ---
> *From:* Jerry Gable <jerrygable@... <mailto:jerrygable@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, September 2, 2010 3:50:20 PM
> *Subject:* Re: [GPSL] Hand Held APRS
>
> I haven't used them but have you looked at the APRS trackers from Byonics or
> Big Red Bee? I am thinking about getting one as a backup tracker so I am
> interested how they worked out for other's.
>
> Unless of course you are talking about the ground radio then never mind :)
>
> http://www.bigredbee.com/
> http://www.byonics.com/microtrak/mt8000fa.php

>
> ---
> *From:* Tim <sarbresam@... <mailto:sarbresam@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, September 2, 2010 3:34:33 PM
> *Subject:* [GPSL] Hand Held APRS
>
>>
>> I am looking to purchase a hand held radio capable of APRS for my son
>> Brenden KJ6HVP. I was looking at the Yaesu VX-8 which HRO is selling for
>> $430 plus GPS module, I am hoping for something a little less expensive. I
>> have heard of them going for less on eBay. I was wondering what others on
>> this list are using to track their payloads.
>>
>> Thanks,
>> Tim KJ6HSX
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8375. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 04:03:54 UTC
From: Mike Manes
Topic: 8360 Message: 8375

Well, that works if one has someplace tall and wide enough to support
a full balloon from the neck (35 ft diameter for a 1200).

Or use a lighter-than-air gas and do it outside in the clear. Since yer
not going for altitude, methane (natural gas) will do just fine. The
service pressure in my home after the meter is 6.5" WC (measured with a
manomoter, BTW). 1000 cuft costs a bit over a buck. Obvious fire
protection caveats apply, of course.

Wotever rings yer chimes ...

73 de Mike W5VSI

On 9/4/2010 21:09, Joe wrote:
> I thought he was gonna use just plain "AIR" and hang it up side down.
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/4/2010 9:54 PM, Mike Manes wrote:
>> Hi Robert,
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>> Save yourself some trouble and make your manometer out of clear Tygon
>> tubing. And for static fill for pressure tests, I think one could
>> just use the hose from the Bunsen burner to fill with methane (CH4)
>> rather than wasting that non-renewable resource, He.
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>> 73 de Mike W5VSI
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>>> Thanks for the insightful comments, Mark, as always. I've been watching this
>>> thread and just biting my tongue at times. I almost added a little story
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>>> time....
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>>> the most off-the-wall solutions (e.g., my ex describes - with great disdain -
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>>> Robert
>>> KC8UCH
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>>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8376. Re: [GPSL] Hand Held APRS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 04:53:20 UTC
From: Tim
Topic: 8311 Message: 8376

Thanks for the input... Seems like all the deals on ebay were last year, now everyone has caught on. I think the VX-8GR is the one that we will end up with, it is $360.00 because it is only 2m and 440. sound good?

Tim

From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: ccccrnr@...
Sent: Sat, September 4, 2010 8:11:52 PM
Subject: Re: [GPSL] Hand Held APRS

Yaesu user interfaces are notoriously User Hostile. Don't leave the user manual behind when setting out on a recovery!

73 de Mike W5VSI

On 9/4/2010 11:03, ccccrnr@... wrote:
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> It is a great radio after you devote the time to learning to use, but I'd
> suggest getting the software, mic cable, and gps, from guys I seen with that
> stuff, those solves hours/days of frustration getting it setup into the nice
> tracking, packeting, quad-band it can be.
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> From: Tim <sarbresam@...>
> To: GPSL <GPSL@yahoogroups.com>
> Sent: Thu, Sep 2, 2010 1:53 pm
> Subject: Re: [GPSL] Hand Held APRS
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> Yes, I am talking about tracking on the ground. Brenden is using the trackers
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> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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> http://www.bigredbee.com/
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8377. GPS & 60k Feet

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 16:11:59 UTC
From: HarryM
Topic: 8377 Message: 8377

I would like to submit the following info for the "GPS above 60,000 feet" data.

Pharos USA (Microsoft) GPS
Model GPS-360
P/N:X10-72407 / 360-1000-02

Chipset:

SIRF
GPS2E LP7451
0248 DFBFBA
KC358AE

Startup Strings:

$PharNav S/W Version: 07S203
$Build date: Sep 23 2003 10:53:18
$SiRF FAM Version 231.000.000ES
$TOW: 347454
$WK: 1598
$POS: -533500 -5127694 3743167
$CLK: 95329
$CHNL:12

$Baud rate: 4800 System clock: 12.277MHz
$HW Type: S2AM
$Asic Version: 0x23
$Clock Source: GPSCLK
$Internal Beacon: None

INFO:

This GPS has a USB interface, but does provide NMEA TTL serial output at the GPS. It will run on 3-5vdc. It always starts up in Thailand, but does aquire a 3D lock very rapidly. It is a good small $20 GPS for APRS below 75,000 feet with appropriate drivers from Pharos. It will not work above 75,00 feet as documented in corespondence from the manufacturer (see below).

Pinouts: http://www.flickr.com/photos/imager/4383334403/

.....

Hello,

The max altitude for the iGPS-360 receiver is 75K. Unfortunately, we will not be able to release the command strings for the receiver or be able to modify the i-GPS-360 receiver to work above 60,000 feet. Thank You.

Best regards,

Technical Support

Pharos Science & Applications, Inc.

411 Amapola Avenue

Torrance, CA. 90501, U.S.A.

P: (888)742-7678

F: (310)320-1808

8378. hydrostatic pressure and 'heliostatic' pressure.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-05 19:26:42 UTC
From: Mark Caviezel
Topic: 8378 Message: 8378

(from Mike) I don't think the water-in-bucket experiment works with light gasses,

where molecules are not bound into a fluid,

Comment: both water in a bucket and helium in a balloon are indeed fluids. The holey water bucket experiment produces increasing pressure (hydrostatic pressure) with increasing depth because of the high density of the water and gravity. The example I site, the holey balloon generates increasing 'heliostatic pressure' with height above the mouth of the balloon because of the difference in density of the balloon gas versus the surrounding fluid, air and gravity effecting both fluids. You could even do the holey bucket experiment with a heavier than air gas, such as CO2. Water has a high density so the hydrostatic gradient is huge compared to the surrounding air pressure gradient. For the water bucket example, it is standard practice to ignore the effects of the ambient fluid, air. This example is in pretty much every basic physics text book. For the balloon example, the density of the inflation gas will normally be much closer to the ambient fluid, air, so the buoyancy effects should be taken into account.

And of course if we go in to a zero-gravity situation there is no buoyancy whatsoever, so there is no hydrostatic or heliostatic pressure.

best

- Mark

8379. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 02:26:37 UTC
From: Jerry Gable
Topic: 8360 Message: 8379

OK, I have a long weekend so I decided to try out the test. I don't have the 100 gram balloons yet so I bought a 72 inch party balloon. It weighed in at 160 grams. It popped at around 9 feet long so I am going to say it is close to the 100 gram Kaymont with heavier latex.

I built the Manometer and tried for the 10x design but ended up with a 5x model instead.

As you will see in the pictures I trashed most of the house setting this up. I'll be in the doghouse for a few days:)

So for the results:

* The initial pressure went to 0.14 PSI but then quickly dropped back to about 0.1 PSI.

* The pressure then slowly dropped to 0.83 PSI. This looks about 1/2 way through the time but I started off with a lot lower flow. I would guess the low point would have occurred around 1/4 of the final time if the flow had been constant.

* The pressure then increased pretty linearly to 0.103 just before burst.Conclusions:

* The pressure in this balloon was probably quite a bit higher than a Kaymont balloon. Joe estimated a burst pressure of 0.0311 on the Kaymont 100. I predict it will be closer to 0.06 on that balloon.
* I would think that a balloon at launch is at or beyond the low point in the curve.
* The pressure will increase throughout the flight. This would be the average pressure in the balloon (higher at the top, lower at the bottom).
For the next test:

* I need a bigger building.
* I need to be able to measure the size (the plan this time didn't work out) and ideally the flow rate.

Here are pictures and the results
The fill and measure device:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/MeasureAndFill.jpg
The balloon at close to full size and Manometer:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/BurstTest1Setup.JPG
The results:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/Test1Results.xlsx

All comments welcome
Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 4, 2010 8:09:19 PM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

I thought he was gonna use just plain "AIR" and hang it up side down.

Joe

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/4/2010 9:54 PM, Mike Manes wrote:
Hi Robert,
>
>Save yourself some trouble and make your manometer out of clear Tygon
>tubing. And for static fill for pressure tests, I think one could
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>
>73 de Mike W5VSI
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>>73,
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>>KC8UCH
>>
>>
>>
>>

8380. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 02:49:51 UTC
From: Joe
Topic: 8360 Message: 8380
Attachments: 1 described; binary payloads are missing from this source WARC

I agree on the thought of the thicker latex.

I wonder how consistent these balloons are if you were to run the test
again if you would get similar results.

THEN a real interesting test would be to run it again this time with the
fill apparatus at the bottom and fill with HE to see what the pressure
does, Have the sensor as close to the neck as possible.. etc...this
would show if there is stratification in a latex balloon or not.

Or since it looks movable hey place the sensor opening at the neck
and push it up as far as possible and see if it changes at all.

Me myself for some reason find it hard to believe.

Joe WB9SBD

The Original Rolling Ball Clock
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On 9/5/2010 9:26 PM, Jerry Gable wrote:
>
>
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> As you will see in the pictures I trashed most of the house setting
> this up. I'll be in the doghouse for a few days:)
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>
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> 1/2 way through the time but I started off with a lot lower
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> 1/4 of the final time if the flow had been constant.
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>
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8381. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 03:16:08 UTC
From: Jerry Gable
Topic: 8360 Message: 8381

Joe,

I doubt they are very consistent. I bought 5 - 100 gram balloons on ebay for the next test. They will be more consistent. I have a 600 gram I also plan on poping. I have a 1000 gram that I might pop if I find the correct space.

From what I remember, helium and air will not stratify in the balloon, they will be completely mixed.

As Mark C. has pointed out there will be a hydrostatic pressure difference in the balloon. Think of it this way, at the top you have a column of helium pushing up. At the bottom you have a shorter column pushing up. So in the opposite direction of the atmosphere the helium pressure will be greatest at the top. This is why a zero pressure balloon (or hot air balloon for that matter) can be open at the bottom.

I do believe that the average pressure in the balloon has to equal what my measurement is when filling with air.

I also believe I would see the same results if the balloon resting on the ground. There is just a lot more chance that something will puncture the balloon. I may try hanging and resting on the ground with the 100 gram balloons. I may also try one with helium.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sun, September 5, 2010 7:49:51 PM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

I agree on the thought of the thicker latex.

I wonder how consistent these balloons are if you were to run the test again if you would get similar results.

THEN a real interesting test would be to run it again this time with the fill apparatus at the bottom and fill with HE to see what the pressure does, Have the sensor as close to the neck as possible.. etc...this would show if there is stratification in a latex balloon or not.

Or since it looks movable hey place the sensor opening at the neck and push it up as far as possible and see if it changes at all.

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>Joe
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>>73 de Mike W5VSI
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>>>my early solar Montgolfiere experiments as "flying trash bags into the sky")

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>>>transducers already - it's back to making glassware over a Bunsen for me! :)
>>>73,
>>>Robert
>>>KC8UCH
>>>
>>>
>>>
>>>

8382. Re: [GPSL] hydrostatic pressure and 'heliostatic' pressure.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 03:48:27 UTC
From: Mike Manes
Topic: 8378 Message: 8382

Hi Mark,

By your argument, if a He-filled balloon were in an H2 atmosphere, the internal pressure gradient would reverse, with more pressure on the bottom than the top.

How does the gas inside the balloon "know" what the density of the gas outside the balloon is?

73 de Mike W5VSI

On 9/5/2010 13:26, Mark Caviezel wrote:
>
>
>
> (from Mike) I don't think the water-in-bucket experiment works with light gasses,
> where molecules are not bound into a fluid,
>
> Comment: both water in a bucket and helium in a balloon are indeed fluids. The
> holey water bucket experiment produces increasing pressure (hydrostatic
> pressure) with increasing depth because of the high density of the water and
> gravity. The example I site, the holey balloon generates increasing
> 'heliostatic pressure' with height above the mouth of the balloon because of
> the difference in density of the balloon gas versus the surrounding fluid, air
> and gravity effecting both fluids. You could even do the holey bucket
> experiment with a heavier than air gas, such as CO2. Water has a high density
> so the hydrostatic gradient is huge compared to the surrounding air pressure
> gradient. For the water bucket example, it is standard practice to ignore the
> effects of the ambient fluid, air. This example is in pretty much every basic
> physics text book. For the balloon example, the density of the inflation gas
> will normally be much closer to the ambient fluid, air, so the buoyancy
> effects should be taken into account.
>
> And of course if we go in to a zero-gravity situation there is no buoyancy
> whatsoever, so there is no hydrostatic or heliostatic pressure.
>
> best
>
> - Mark
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8383. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 04:25:51 UTC
From: Mike Manes
Topic: 8360 Message: 8383

He and air >will< separate, much the same way that oil will float to
the top in water. This happens in ZP balloons. As the He bubble expands
during ascent, it pushes any air (and there is plenty in there once the
envelope plumps out) out the vents at the bottom.

The argument that a significant pressure gradient appears in a latex
balloon remains specious in my mind because it presumes the gas inside
the balloon knows what the density of the gas outside is.

73 de Mike W5VSI

On 9/5/2010 21:16, Jerry Gable wrote:
>
>
> Joe,
>
> I doubt they are very consistent. I bought 5 - 100 gram balloons on ebay for
> the next test. They will be more consistent. I have a 600 gram I also plan on
> poping. I have a 1000 gram that I might pop if I find the correct space.
>
> From what I remember, helium and air will not stratify in the balloon, they
> will be completely mixed.
>
> As Mark C. has pointed out there will be a hydrostatic pressure difference in
> the balloon. Think of it this way, at the top you have a column of helium
> pushing up. At the bottom you have a shorter column pushing up. So in the
> opposite direction of the atmosphere the helium pressure will be greatest at
> the top. This is why a zero pressure balloon (or hot air balloon for that
> matter) can be open at the bottom.
>
> I do believe that the average pressure in the balloon has to equal what my
> measurement is when filling with air.
>
> I also believe I would see the same results if the balloon resting on the
> ground. There is just a lot more chance that something will puncture the
> balloon. I may try hanging and resting on the ground with the 100 gram
> balloons. I may also try one with helium.
>
> Jerry
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sun, September 5, 2010 7:49:51 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>

> I agree on the thought of the thicker latex.
>
> I wonder how consistent these balloons are if you were to run the test again
> if you would get similar results.
>
> THEN a real interesting test would be to run it again this time with the fill
> apparatus at the bottom and fill with HE to see what the pressure does, Have
> the sensor as close to the neck as possible.. etc...this would show if there
> is stratification in a latex balloon or not.
>
> Or since it looks movable hey place the sensor opening at the neck and push it
> up as far as possible and see if it changes at all.
>
> Me myself for some reason find it hard to believe.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
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>> I built the Manometer and tried for the 10x design but ended up with a 5x
>> model instead.
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>> As you will see in the pictures I trashed most of the house setting this up.
>> I'll be in the doghouse for a few days:)
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>> So for the results:
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>> * The initial pressure went to 0.14 PSI but then quickly dropped back to
>> about 0.1 PSI.
>> * The pressure then slowly dropped to 0.83 PSI. This looks about 1/2 way
>> through the time but I started off with a lot lower flow. I would
>> guess the low point would have occurred around 1/4 of the final time
>> if the flow had been constant.
>> * The pressure then increased pretty linearly to 0.103 just before burst.
>>
>> Conclusions:
>>
>> * The pressure in this balloon was probably quite a bit higher than a
>> Kaymont balloon. Joe estimated a burst pressure of 0.0311 on the
>> Kaymont 100. I predict it will be closer to 0.06 on that balloon.
>> * I would think that a balloon at launch is at or beyond the low point

>> in the curve.
>> *
>> The pressure will increase throughout the flight. This would be the
>> average pressure in the balloon (higher at the top, lower at the bottom).
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>> All comments welcome
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>> ---
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Sat, September 4, 2010 8:09:19 PM
>> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
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8384. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 15:00:20 UTC
From: BASE
Topic: 8360 Message: 8384

Jerry,
Thanks for sharing your results. I have access to a wonderful space to do static fill tests:
http://www.depauw.edu/photos/Publications_Repository/2010/4/26/04Julian_Panorama-c1.JPG
The atrium can easily handle balloons up to 28 feet across, and with a little extra effort, I think we can fill balloons up to 34 feet across.
I have some older Kaysam 350 gram (3) and one 1000 gram balloon, plus new Kaymont/Totex 600 and 1200 gram balloons (although I'll probably fly most of these).
I'm not sure when we will have the time to do the static tests, since we have a busy flight schedule this fall, but it will be fun.
Thanks for the inspiration,Howard

--- On Sun, 9/5/10, Jerry Gable <jerrygable@...> wrote:

From: Jerry Gable <jerrygable@...>
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure
To: GPSL@yahoogroups.com
Date: Sunday, September 5, 2010, 10:26 PM

OK, I have a long weekend so I decided to try out the test. I don't have the 100 gram balloons yet so I bought a 72 inch party balloon. It weighed in at 160 grams. It popped at around 9 feet long so I am going to say it is close to the 100 gram Kaymont with heavier latex.

I built the Manometer and tried for the 10x design but ended up with a 5x model instead.

As you will see in the pictures I trashed most of the house setting this up. I'll be in the doghouse for a few days:)

So for the results:
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the low point would have occurred around 1/4 of the final time if the flow had been constant. The pressure then increased pretty linearly to 0.103 just before burst.Conclusions:
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For the next test:
I need a bigger building.I need to be able to measure the size (the plan this time didn't work out) and ideally the flow rate.

Here are pictures and
the results

The fill and measure device:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/MeasureAndFill.jpg
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All comments welcome
Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 4, 2010 8:09:19 PM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

I thought he was gonna use just plain "AIR" and hang it up side
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The Original Rolling
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Clock

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Robert
KC8UCH

8385. gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 15:49:20 UTC
From: Mark Caviezel
Topic: 8385 Message: 8385

(from Mike)
By your argument, if a He-filled balloon were in an H2 atmosphere, the internal pressure gradient would reverse, with more pressure on the bottom than the top.
ANSWER>>>>>> Yes.

(from Mike)
How does the gas inside the balloon "know" what the density of the gas outside the balloon is?
ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is transmitted through the flexible wall of the balloon, be it latex or plastic.

8386. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 15:50:59 UTC
From: Jerry Gable
Topic: 8360 Message: 8386

Howard,
It looks like a great place to do it but how do you think they would feel about the talc in the balloons spread all over everything? I have seen some balloons that have quite a bit of powder in them.

Jerry

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Mon, September 6, 2010 8:00:20 AM
Subject: Re: [GPSL] Joe's numbers on latex balloon internal pressure

Jerry,

Thanks for sharing your results. I have access to a wonderful space to do static fill tests:

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Thanks for the inspiration,
Howard

--- On Sun, 9/5/10, Jerry Gable <jerrygable@...> wrote:

>From: Jerry Gable <jerrygable@yahoo.com>
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>To: GPSL@yahoogroups.com
>Date: Sunday, September 5, 2010, 10:26 PM
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>

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>Sent: Sat, September 4, 2010 8:09:19 PM
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8387. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 15:54:59 UTC
From: Jerry Gable
Topic: 8385 Message: 8387

Mark,
Do you have any idea what the gradient in a balloon would be? I would think it would be pretty small in a 20 ft balloon.

Jerry

From: Mark Caviezel <kmcaviezel@...>
To: GPSL@yahoogroups.com
Sent: Mon, September 6, 2010 8:49:20 AM
Subject: [GPSL] gas-static pressure, air column, water column, helium column

(from Mike)
By your argument, if a He-filled balloon were in an H2 atmosphere, the internal pressure gradient would reverse, with more pressure on the bottom than the top.
ANSWER>>>>>> Yes.

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ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is transmitted through the flexible wall of the balloon, be it latex or plastic.

8388. Jerry's test inflations

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 16:11:28 UTC
From: Mark Caviezel
Topic: 8388 Message: 8388

Jerry:
Looks like a great set up! Thanks for sharing it.
It appears that you have at most a couple inches of vertical travel for your (water?) column. Unless I am screwing up the math, this would seem to give a maximum pressure reading capability of about 0.07 psi, far less than your reported pressure max values. Or maybe you are using some super-dense liquid in your manometer?

Comment: The shape of the balloon is no where close to a sphere. Ascent rate calculations normally assume the balloon is spherical, which is not a great assumption. I've not yet seen exhaustive wind tunnel data for real latex balloon shapes at the Reynolds numbers of interest. After a couple years of trying to be rather scientific about calculating exact fill quantities, free lift, resulting ascent rate, I adopted the practice of planning for 1-3 pounds of free lift for a <12 lb latex mission. The guys who really care are the altitude record seekers. And they now have a difficult task to break the current record.

best

- Mark

8389. Re: [GPSL] Jerry's test inflations

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 17:17:18 UTC
From: Jerry Gable
Topic: 8388 Message: 8389

Mark,
Please check my math on the Manometer. Here is what I have.

The measurement portion of the tube is 30 inches long with a vertical change of 3 inches. So if the water moves the full 30 inches that is 3 inches of vertical travel and the high pressure side goes down 3 inches for a 6 inch vertical delta. 6 X 0.036126 = 0.217 PSI full scale

So I ended up with a 5X Manometer

Does that make sense?
Jerry

From: Mark Caviezel <kmcaviezel@...>
To: GPSL@yahoogroups.com
Sent: Mon, September 6, 2010 9:11:28 AM
Subject: [GPSL] Jerry's test inflations

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It appears that you have at most a couple inches of vertical travel for your (water?) column. Unless I am screwing up the math, this would seem to give a maximum pressure reading capability of about 0.07 psi, far less than your reported pressure max values. Or maybe you are using some super-dense liquid in your manometer?

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best

- Mark

8390. CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 19:12:28 UTC
From: Brenden Geary
Topic: 7187 Message: 8390

I am having some trouble getting my script to not use the screen. I am using a Canon Powershot A470, would you be willing to send me your CHDK script.

Thanks,
Brenden

8391. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 19:15:20 UTC
From: Mark Conner
Topic: 7187 Message: 8391

I have trouble with that also. For normal flights, it's not a problem if you use the blue Energizer lithium batteries. Having the camera screen on keeps the camera warmer which also has benefits.

In the past, I've shut the screen off using the camera controls after scripting it seemed hit-and-miss. Perhaps others have had better luck.

73 de Mark N9XTN

On Mon, Sep 6, 2010 at 14:12, Brenden Geary <bjgeary@...> wrote:

> I am having some trouble getting my script to not use the screen. I am
> using a Canon Powershot A470, would you be willing to send me your CHDK
> script.
>
> Thanks,
> Brenden
>
>
>
>

8392. RE: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-06 20:41:28 UTC
From: Rick von Glahn
Topic: 7187 Message: 8392

Brenden,

I don't recall ever having a failure of the screen off command, but I wrote the script for an A570is powershot. Here is the page where I documented the process:

http://eoss.org/hardware/canon_a570is.htm

I don't have the camera anymore, it's in the EOSS "warehouse". So I can't do any testing but, as you can see from the video linked to the above page, the display does turn off.

It was my experience that the camera would take over 1400 pictures on a single set of lithiums when placed in a freezer (-5F or so). So, I think it should fly through one mission with the display on. Course... it all depends on the frequency of your shooting schedule. I take photos once every 6 or so seconds for a while during launch and climb out. Then the camera backs off to a slower rate until it once again approaches the ground. We run something like 750 pictures per flight.

73 -- Rick

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Brenden Geary
> Sent: Monday, September 06, 2010 1:12 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] CHDK Scripts
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> Thanks,
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

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8393. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 00:51:58 UTC
From: L. Paul Verhage
Topic: 7187 Message: 8393

I'm trying to get a script to start up when I power up the camera. The Canon A550 wants to run its default script. Does anyone run their default script at power up?

Paul

On Mon, Sep 6, 2010 at 3:41 PM, Rick von Glahn <rick@...> wrote:

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> the script for an A570is powershot. Here is the page where I documented the
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> http://eoss.org/hardware/canon_a570is.htm
>
> I don't have the camera anymore, it's in the EOSS "warehouse". So I can't
> do
> any testing but, as you can see from the video linked to the above page,
> the
> display does turn off.
>
> It was my experience that the camera would take over 1400 pictures on a
> single set of lithiums when placed in a freezer (-5F or so). So, I think it
> should fly through one mission with the display on. Course... it all
> depends
> on the frequency of your shooting schedule. I take photos once every 6 or
> so
> seconds for a while during launch and climb out. Then the camera backs off
> to a slower rate until it once again approaches the ground. We run
> something
> like 750 pictures per flight.
>
>
> 73 -- Rick
>
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> > Of Brenden Geary
> > Sent: Monday, September 06, 2010 1:12 PM
> > To: GPSL@yahoogroups.com
> > Subject: [GPSL] CHDK Scripts
> >
> > I am having some trouble getting my script to not use the screen. I am
> using a

> > Canon Powershot A470, would you be willing to send me your CHDK script.
> >
> > Thanks,
> > Brenden
> >
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8394. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 01:47:42 UTC
From: Zack Clobes
Topic: 7187 Message: 8394

I finally got my 570IS to run MY script at startup. There's an item in the menu that's fairly obvious once you see it. I think the problem that I had was that I changed the value, but didn't actually SET it before exiting the menu. Once I held my nose right, it took.

Sorry, I don't have the camera nearby to tell you what that setting was.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Sep 6, 2010 at 7:51 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I'm trying to get a script to start up when I power up the camera. The
> Canon A550 wants to run its default script. Does anyone run their default
> script at power up?
>
> Paul
>
> On Mon, Sep 6, 2010 at 3:41 PM, Rick von Glahn <rick@...> wrote:
>
>> Brenden,
>>
>> I don't recall ever having a failure of the screen off command, but I
>> wrote
>> the script for an A570is powershot. Here is the page where I documented
>> the
>> process:
>>
>> http://eoss.org/hardware/canon_a570is.htm
>>
>> I don't have the camera anymore, it's in the EOSS "warehouse". So I can't
>> do
>> any testing but, as you can see from the video linked to the above page,
>> the
>> display does turn off.
>>
>> It was my experience that the camera would take over 1400 pictures on a
>> single set of lithiums when placed in a freezer (-5F or so). So, I think
>> it
>> should fly through one mission with the display on. Course... it all
>> depends
>> on the frequency of your shooting schedule. I take photos once every 6 or
>> so

>> seconds for a while during launch and climb out. Then the camera backs off
>> to a slower rate until it once again approaches the ground. We run
>> something
>> like 750 pictures per flight.
>>
>>
>> 73 -- Rick
>>
>>
>> > -----Original Message-----
>> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
>> > Of Brenden Geary
>> > Sent: Monday, September 06, 2010 1:12 PM
>> > To: GPSL@yahoogroups.com
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>> > I am having some trouble getting my script to not use the screen. I am
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>> > Canon Powershot A470, would you be willing to send me your CHDK script.
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>> > Thanks,
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>> > Yahoo! Groups Links
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>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
>
>

8395. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 04:47:08 UTC
From: Mike Manes
Topic: 8385 Message: 8395

So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully inflated ZP or SP envelope? Or are you arguing that the tensile stress in the envelope skin will vary from top to bottom as a function of the ambient gas density? Kind of a stretch, isn't it?

On 9/6/2010 09:49, Mark Caviezel wrote:
>
> (from Mike)
> By your argument, if a He-filled balloon were in an H2 atmosphere, the
> internal pressure gradient would reverse, with more pressure on the
> bottom than the top.
> ANSWER>>>>>> Yes.
>
> (from Mike)
> How does the gas inside the balloon "know" what the density of the gas
> outside the balloon is?
> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is transmitted through the flexible wall of the balloon, be it latex or plastic.
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8396. Re: [GPSL] Jerry's test inflations

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 05:03:58 UTC
From: Mike Manes
Topic: 8388 Message: 8396

Correct. The manometer is read as the vertical difference in height
between the menisci on the two sides of the tube.
73 de Mike W5VSI

On 9/6/2010 11:17, Jerry Gable wrote:
>
>
> Mark,
> Please check my math on the Manometer. Here is what I have.
>
> The measurement portion of the tube is 30 inches long with a vertical change
> of 3 inches. So if the water moves the full 30 inches that is 3 inches of
> vertical travel and the high pressure side goes down 3 inches for a 6 inch
> vertical delta. 6 X 0.036126 = 0.217 PSI full scale
>
> So I ended up with a 5X Manometer
>
> Does that make sense?
> Jerry
>
> ---
> *From:* Mark Caviezel <kmcaviezel@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Mon, September 6, 2010 9:11:28 AM
> *Subject:* [GPSL] Jerry's test inflations
>
> Jerry:
> Looks like a great set up! Thanks for sharing it.
> It appears that you have at most a couple inches of vertical travel for your
> (water?) column. Unless I am screwing up the math, this would seem to give a
> maximum pressure reading capability of about 0.07 psi, far less than your
> reported pressure max values. Or maybe you are using some super-dense liquid
> in your manometer?
>
> Comment: The shape of the balloon is no where close to a sphere. Ascent rate
> calculations normally assume the balloon is spherical, which is not a great
> assumption. I've not yet seen exhaustive wind tunnel data for real latex
> balloon shapes at the Reynolds numbers of interest. After a couple years of
> trying to be rather scientific about calculating exact fill quantities, free
> lift, resulting ascent rate, I adopted the practice of planning for 1-3 pounds
> of free lift for a <12 lb latex mission. The guys who really care are the
> altitude record seekers. And they now have a difficult task to break the
> current record.
>
> best

>
> - Mark
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8397. manometer math

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 12:47:05 UTC
From: Mark Caviezel
Topic: 8397 Message: 8397

Mark,
Please check my math on the Manometer. Here is what I have.

The measurement portion of the tube is 30 inches long with a vertical change of 3 inches. So if the water moves the full 30 inches that is 3 inches of vertical travel and the high pressure side goes down 3 inches for a 6 inch vertical delta. 6 X 0.036126 = 0.217 PSI full scale

So I ended up with a 5X Manometer

Does that make sense?
>>>>>>>>>>>>>>> yes, looks good. Ok now I am curious if that balloon you used for test is significantly stretchier than the latex balloons that most ARHAB guys fly.

8398. internal gas pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 13:03:37 UTC
From: Mark Caviezel
Topic: 8398 Message: 8398

(from Mike) So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully inflated ZP or SP envelope? Or are you arguing that the tensile stress in the envelope skin will vary from top to bottom as a function of the ambient gas density? Kind of a stretch, isn't it?

>>>>>> Answer>>>> Just as the hydrostatic head is a function of depth in a metal bucket or a similar depth plastic bad filled with water, the gas static head of a ZP helium balloon is function of the height from the bottom of the helium to the top of the balloon. The tensile stress in the envelope skin is

stress = (internal pressure) x (radius of curvature) / (2 * skin thickness)

The NASA ULDB guys try to reduce the skin stress by using external tendons to decrease the radius of curvature. Most hot air balloons also have a certain amount of bulbousness for the same reason.

- Mark ng0x

8399. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 13:04:50 UTC
From: L. Paul Verhage
Topic: 7187 Message: 8399

The whole CHDK is a prety neat system, but man....

I'm trying to get my A550 to run the script I select, but often I'm finding it's a different script or the silly default one. Consistency is my biggest problem now. After that, I want to default the script to mine.

What I'd like to see is a CHDK editor that will syntax check your script befre loadig it in the camera. I find the parse errors my camera reports unhelpful, as they don't tell me where the problem lies.

Otherwise, cool over all.

Paul

On Mon, Sep 6, 2010 at 8:47 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I finally got my 570IS to run MY script at startup. There's an item in the
> menu that's fairly obvious once you see it. I think the problem that I had
> was that I changed the value, but didn't actually SET it before exiting the
> menu. Once I held my nose right, it took.
>
> Sorry, I don't have the camera nearby to tell you what that setting was.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> On Mon, Sep 6, 2010 at 7:51 PM, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> I'm trying to get a script to start up when I power up the camera. The
>> Canon A550 wants to run its default script. Does anyone run their default
>> script at power up?
>>
>> Paul
>>
>> On Mon, Sep 6, 2010 at 3:41 PM, Rick von Glahn <rick@...> wrote:
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>>> Brenden,
>>>
>>> I don't recall ever having a failure of the screen off command, but I
>>> wrote

>>> the script for an A570is powershot. Here is the page where I documented
>>> the
>>> process:
>>>
>>> http://eoss.org/hardware/canon_a570is.htm
>>>
>>> I don't have the camera anymore, it's in the EOSS "warehouse". So I can't
>>> do
>>> any testing but, as you can see from the video linked to the above page,
>>> the
>>> display does turn off.
>>>
>>> It was my experience that the camera would take over 1400 pictures on a
>>> single set of lithiums when placed in a freezer (-5F or so). So, I think
>>> it
>>> should fly through one mission with the display on. Course... it all
>>> depends
>>> on the frequency of your shooting schedule. I take photos once every 6 or
>>> so
>>> seconds for a while during launch and climb out. Then the camera backs
>>> off
>>> to a slower rate until it once again approaches the ground. We run
>>> something
>>> like 750 pictures per flight.
>>>
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>>> 73 -- Rick
>>>
>>>
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>>> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
>>> > Of Brenden Geary
>>> > Sent: Monday, September 06, 2010 1:12 PM
>>> > To: GPSL@yahoogroups.com
>>> > Subject: [GPSL] CHDK Scripts
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>>> > I am having some trouble getting my script to not use the screen. I am
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>>> > Canon Powershot A470, would you be willing to send me your CHDK script.
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>>> > Thanks,
>>> > Brenden
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>> --
>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8400. Re: [GPSL] hydrostatic pressure and 'heliostatic' pressure.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:10:03 UTC
From: Joe
Topic: 8378 Message: 8400
Attachments: 1 described; binary payloads are missing from this source WARC

I agree with Mike on what he says here.

And I still think that once pressure starts to build I can not see how
the density can be any different. Like I said otherwise every balloon
would only pop at the top?

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/5/2010 10:48 PM, Mike Manes wrote:
> Hi Mark,
>
> By your argument, if a He-filled balloon were in an H2 atmosphere, the
> internal pressure gradient would reverse, with more pressure on the
> bottom than the top.
>
> How does the gas inside the balloon "know" what the density of the gas
> outside the balloon is?
>
> 73 de Mike W5VSI
>
> On 9/5/2010 13:26, Mark Caviezel wrote:
>>
>>
>> (from Mike) I don't think the water-in-bucket experiment works with light gasses,
>> where molecules are not bound into a fluid,
>>
>> Comment: both water in a bucket and helium in a balloon are indeed fluids. The
>> holey water bucket experiment produces increasing pressure (hydrostatic
>> pressure) with increasing depth because of the high density of the water and
>> gravity. The example I site, the holey balloon generates increasing
>> 'heliostatic pressure' with height above the mouth of the balloon because of
>> the difference in density of the balloon gas versus the surrounding fluid, air
>> and gravity effecting both fluids. You could even do the holey bucket
>> experiment with a heavier than air gas, such as CO2. Water has a high density
>> so the hydrostatic gradient is huge compared to the surrounding air pressure
>> gradient. For the water bucket example, it is standard practice to ignore the
>> effects of the ambient fluid, air. This example is in pretty much every basic
>> physics text book. For the balloon example, the density of the inflation gas
>> will normally be much closer to the ambient fluid, air, so the buoyancy

>> effects should be taken into account.
>>
>> And of course if we go in to a zero-gravity situation there is no buoyancy
>> whatsoever, so there is no hydrostatic or heliostatic pressure.
>>
>> best
>>
>> - Mark
>>
>>
>>
>>
>>

8401. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:03:04 UTC
From: Joe
Topic: 8360 Message: 8401

On 9/5/2010 10:16 PM, Jerry Gable wrote:
>
>
> Joe,
> From what I remember, helium and air will not stratify in the balloon,
> they will be completely mixed.
True,
>
> As Mark C. has pointed out there will be a hydrostatic pressure
> difference in the balloon. Think of it this way, at the top you have
> a column of helium pushing up. At the bottom you have a shorter
> column pushing up. So in the opposite direction of the atmosphere the
> helium pressure will be greatest at the top. This is why a zero
> pressure balloon (or hot air balloon for that matter) can be open at
> the bottom.
Ok i'll go for that, to the point of when there is any pressure inside.
Once pressure starts to build I'm thinking it will pretty quickly even
out throughout the envelope. If this is not true, then in theroy every
balloon should pop at the top of the balloon where the greatest stress
will be.
>
> I do believe that the average pressure in the balloon has to equal
> what my measurement is when filling with air.
Try wording this differently, I'm Missing your meaning...
>
> I also believe I would see the same results if the balloon resting on
> the ground.
Agreed.
> There is just a lot more chance that something will puncture the
> balloon. I may try hanging and resting on the ground with the 100
> gram balloons. I may also try one with helium.
When you do with the helium,

I'd only go with enough HE to get it reliably off the ground, having it
be 100% HE would I bet put un due stress with it trying to lift like who
knows how many pounds? Whats the burst diameter? How much would it be
trying to lift at burst?

Id get a good reliable amount of lift, then , fill the remainder with air.

Hey even better yet......

Can you again hang it up side down and fill it only with air? But not
only keep track with pressure, but it's weight?

Whenever pressure is falling the balloon should weigh less and pressure
rising it should weigh more.

Joe WB9SBD
Near Space Sciences
>
> Jerry
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sun, September 5, 2010 7:49:51 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> I agree on the thought of the thicker latex.
>
> I wonder how consistent these balloons are if you were to run the test
> again if you would get similar results.
>
> THEN a real interesting test would be to run it again this time with
> the fill apparatus at the bottom and fill with HE to see what the
> pressure does, Have the sensor as close to the neck as possible..
> etc...this would show if there is stratification in a latex balloon or
> not.
>
> Or since it looks movable hey place the sensor opening at the neck
> and push it up as far as possible and see if it changes at all.
>
> Me myself for some reason find it hard to believe.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 9/5/2010 9:26 PM, Jerry Gable wrote:
>> OK, I have a long weekend so I decided to try out the test. I don't
>> have the 100 gram balloons yet so I bought a 72 inch party balloon.
>> It weighed in at 160 grams. It popped at around 9 feet long so I am
>> going to say it is close to the 100 gram Kaymont with heavier latex.
>>
>> I built the Manometer and tried for the 10x design but ended up with
>> a 5x model instead.
>>
>> As you will see in the pictures I trashed most of the house setting
>> this up. I'll be in the doghouse for a few days:)
>>
>> So for the results:
>>

>> * The initial pressure went to 0.14 PSI but then quickly dropped
>> back to about 0.1 PSI.
>> * The pressure then slowly dropped to 0.83 PSI. This looks about
>> 1/2 way through the time but I started off with a lot lower
>> flow. I would guess the low point would have occurred around
>> 1/4 of the final time if the flow had been constant.
>> * The pressure then increased pretty linearly to 0.103 just
>> before burst.
>>
>> Conclusions:
>>
>> * The pressure in this balloon was probably quite a bit higher
>> than a Kaymont balloon. Joe estimated a burst pressure of
>> 0.0311 on the Kaymont 100. I predict it will be closer to 0.06
>> on that balloon.
>> * I would think that a balloon at launch is at or beyond the low
>> point in the curve.
>> *
>> The pressure will increase throughout the flight. This would
>> be the average pressure in the balloon (higher at the top,
>> lower at the bottom).
>>
>> For the next test:
>>
>> * I need a bigger building.
>> * I need to be able to measure the size (the plan this time
>> didn't work out) and ideally the flow rate.
>>
>>
>> Here are pictures and the results
>> The fill and measure device:
>> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/MeasureAndFill.jpg
>> The balloon at close to full size and Manometer:
>> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/BurstTest1Setup.JPG
>> The results:
>> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/Test1Results.xlsx
>>
>> All comments welcome
>> Jerry
>>
>> ---
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Sat, September 4, 2010 8:09:19 PM
>> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>>
>> I thought he was gonna use just plain "AIR" and hang it up side down.
>>
>> Joe
>>

>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 9/4/2010 9:54 PM, Mike Manes wrote:
>>> Hi Robert,
>>>
>>> Save yourself some trouble and make your manometer out of clear Tygon
>>> tubing. And for static fill for pressure tests, I think one could
>>> just use the hose from the Bunsen burner to fill with methane (CH4)
>>> rather than wasting that non-renewable resource, He.
>>>
>>> 73 de Mike W5VSI
>>>
>>> On 9/4/2010 09:52, Robert Rochte wrote:
>>>> Thanks for the insightful comments, Mark, as always. I've been watching this
>>>> thread and just biting my tongue at times. I almost added a little story
>>>> about pressure testing my cylindrical superpressure design to failure by
>>>> sealing a big chunk of dry ice inside, but decided to save that for another
>>>> time....
>>>> Mike's comments and yours about the water manometre were especially
>>>> helpful... It's amazing how even those of us who are accustomed to finding
>>>> the most off-the-wall solutions (e.g., my ex describes - with great disdain -
>>>> my early solar Montgolfiere experiments as "flying trash bags into the sky")
>>>> can overlook such a fundamental instrument. Enough of these damned
>>>> transducers already - it's back to making glassware over a Bunsen for me! :)
>>>> 73,
>>>> Robert
>>>> KC8UCH
>>>>
>>>>
>>>>
>
>
>

8402. Re: [GPSL] Joe's numbers on latex balloon internal pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:23:39 UTC
From: L. Paul Verhage
Topic: 8360 Message: 8402

Talking about a difference in pressure in the balloon....

The balloon rises due to bouyancy. Is this due to the greater hydrostatic pressure at the top of the balloon? That greater pressure on top creates the force (pressure X area) that makes the balloon accelerate up (until balanced by drag pushing down).
Paul
On Tue, Sep 7, 2010 at 10:03 AM, Joe <nss@...> wrote:

>
>
>
> On 9/5/2010 10:16 PM, Jerry Gable wrote:
>
> Joe,
> From what I remember, helium and air will not stratify in the balloon, they
> will be completely mixed.
>
> True,
>
>
> As Mark C. has pointed out there will be a hydrostatic pressure difference
> in the balloon. Think of it this way, at the top you have a column of
> helium pushing up. At the bottom you have a shorter column pushing up. So
> in the opposite direction of the atmosphere the helium pressure will be
> greatest at the top. This is why a zero pressure balloon (or hot air
> balloon for that matter) can be open at the bottom.
>
> Ok i'll go for that, to the point of when there is any pressure inside.
> Once pressure starts to build I'm thinking it will pretty quickly even out
> throughout the envelope. If this is not true, then in theroy every balloon
> should pop at the top of the balloon where the greatest stress will be.
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> I do believe that the average pressure in the balloon has to equal what my
> measurement is when filling with air.
>
> Try wording this differently, I'm Missing your meaning...
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>
> I also believe I would see the same results if the balloon resting on the
> ground.
>
> Agreed.
>

> There is just a lot more chance that something will puncture the
> balloon. I may try hanging and resting on the ground with the 100 gram
> balloons. I may also try one with helium.
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> When you do with the helium,
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> I'd only go with enough HE to get it reliably off the ground, having it be
> 100% HE would I bet put un due stress with it trying to lift like who knows
> how many pounds? Whats the burst diameter? How much would it be trying to
> lift at burst?
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> Id get a good reliable amount of lift, then , fill the remainder with air.
>
> Hey even better yet......
>
> Can you again hang it up side down and fill it only with air? But not only
> keep track with pressure, but it's weight?
>
> Whenever pressure is falling the balloon should weigh less and pressure
> rising it should weigh more.
>
> Joe WB9SBD
> Near Space Sciences
>
>
> Jerry
>
> ------------------------------
> *From:* Joe <nss@...> <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sun, September 5, 2010 7:49:51 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> I agree on the thought of the thicker latex.
>
> I wonder how consistent these balloons are if you were to run the test
> again if you would get similar results.
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> THEN a real interesting test would be to run it again this time with the
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> does, Have the sensor as close to the neck as possible.. etc...this would
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> Or since it looks movable hey place the sensor opening at the neck and
> push it up as far as possible and see if it changes at all.
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> Joe WB9SBD
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> On 9/5/2010 9:26 PM, Jerry Gable wrote:
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> the 100 gram balloons yet so I bought a 72 inch party balloon. It weighed
> in at 160 grams. It popped at around 9 feet long so I am going to say it is
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> I built the Manometer and tried for the 10x design but ended up with a 5x
> model instead.
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> As you will see in the pictures I trashed most of the house setting this
> up. I'll be in the doghouse for a few days:)
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> So for the results:
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> - The initial pressure went to 0.14 PSI but then quickly dropped back
> to about 0.1 PSI.
> - The pressure then slowly dropped to 0.83 PSI. This looks about 1/2
> way through the time but I started off with a lot lower flow. I would guess
> the low point would have occurred around 1/4 of the final time if the flow
> had been constant.
> - The pressure then increased pretty linearly to 0.103 just before
> burst.
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> Conclusions:
>
> - The pressure in this balloon was probably quite a bit higher than a
> Kaymont balloon. Joe estimated a burst pressure of 0.0311 on the Kaymont
> 100. I predict it will be closer to 0.06 on that balloon.
> - I would think that a balloon at launch is at or beyond the low point
> in the curve.
> - The pressure will increase throughout the flight. This would be the
> average pressure in the balloon (higher at the top, lower at the bottom).
>
> For the next test:
>
> - I need a bigger building.
> - I need to be able to measure the size (the plan this time didn't work
> out) and ideally the flow rate.
>
>
> Here are pictures and the results
> The fill and measure device:
> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/MeasureAndFill.jpg
> The balloon at close to full size and Manometer:

> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/BurstTest1Setup.JPG
> The results:
> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/Test1Results.xlsx
>
> All comments welcome
> Jerry
>
> ------------------------------
> *From:* Joe <nss@...> <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 4, 2010 8:09:19 PM
> *Subject:* Re: [GPSL] Joe's numbers on latex balloon internal pressure
>
> I thought he was gonna use just plain "AIR" and hang it up side down.
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 9/4/2010 9:54 PM, Mike Manes wrote:
>
> Hi Robert,
>
> Save yourself some trouble and make your manometer out of clear Tygon
> tubing. And for static fill for pressure tests, I think one could
> just use the hose from the Bunsen burner to fill with methane (CH4)
> rather than wasting that non-renewable resource, He.
>
> 73 de Mike W5VSI
>
> On 9/4/2010 09:52, Robert Rochte wrote:
>
> Thanks for the insightful comments, Mark, as always. I've been watching this
> thread and just biting my tongue at times. I almost added a little story
> about pressure testing my cylindrical superpressure design to failure by
> sealing a big chunk of dry ice inside, but decided to save that for another
> time....
> Mike's comments and yours about the water manometre were especially
> helpful... It's amazing how even those of us who are accustomed to finding
> the most off-the-wall solutions (e.g., my ex describes - with great disdain -
> my early solar Montgolfiere experiments as "flying trash bags into the sky")
> can overlook such a fundamental instrument. Enough of these damned
> transducers already - it's back to making glassware over a Bunsen for me! :)
> 73,
> Robert
> KC8UCH
>

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Onwards and Upwards,
Paul

8403. Re: [GPSL] manometer math

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:31:09 UTC
From: Jerry Gable
Topic: 8397 Message: 8403

Mark,
I'm not sure how to interpret the term stretchier. Doing just a kind of feel test on a piece of this balloon vs a chunk from 1000 g balloon that I have I would say that it takes a little more effort to stretch my test balloon. The latex also feels a little thicker so that is to be expected.

I have some 100g balloons showing up this week. I plan on repeating the test with a couple of them as a baseline.

Then all I need is to find a building to pop a 600g balloon in to get an idea of how all of this scales for larger balloons.

_____
From: Mark Caviezel <kmcaviezel@...>
To: GPSL@yahoogroups.com
Sent: Tue, September 7, 2010 5:47:05 AM
Subject: [GPSL] manometer math

Mark,
Please check my math on the Manometer. Here is what I have.

The measurement portion of the tube is 30 inches long with a vertical change of 3 inches. So if the water moves the full 30 inches that is 3 inches of vertical travel and the high pressure side goes down 3 inches for a 6 inch vertical delta. 6 X 0.036126 = 0.217 PSI full scale

So I ended up with a 5X Manometer

Does that make sense?
>>>>>>>>>>>>>>> yes, looks good. Ok now I am curious if that balloon you used for test is
>>>>>>>>>>>>>>>significantly stretchier than the latex balloons that most ARHAB guys fly.
>>>>>>>>>>>>>>>

8404. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:36:31 UTC
From: Joe
Topic: 7187 Message: 8404
Attachments: 1 described; binary payloads are missing from this source WARC

Our 560 the screen off wouldn't work also,

But the camera has flown on several flights with screen on and had
plenty of power left on landing, even when recording Video.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/6/2010 3:41 PM, Rick von Glahn wrote:
> Brenden,
>
> I don't recall ever having a failure of the screen off command, but I wrote
> the script for an A570is powershot. Here is the page where I documented the
> process:
>
> http://eoss.org/hardware/canon_a570is.htm
>
> I don't have the camera anymore, it's in the EOSS "warehouse". So I can't do
> any testing but, as you can see from the video linked to the above page, the
> display does turn off.
>
> It was my experience that the camera would take over 1400 pictures on a
> single set of lithiums when placed in a freezer (-5F or so). So, I think it
> should fly through one mission with the display on. Course... it all depends
> on the frequency of your shooting schedule. I take photos once every 6 or so
> seconds for a while during launch and climb out. Then the camera backs off
> to a slower rate until it once again approaches the ground. We run something
> like 750 pictures per flight.
>
>
> 73 -- Rick
>
>
>> -----Original Message-----
>> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
>> Of Brenden Geary
>> Sent: Monday, September 06, 2010 1:12 PM
>> To: GPSL@yahoogroups.com
>> Subject: [GPSL] CHDK Scripts
>>

>> I am having some trouble getting my script to not use the screen. I am
> using a
>> Canon Powershot A470, would you be willing to send me your CHDK script.
>>
>> Thanks,
>> Brenden
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>> Yahoo! Groups Links
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8405. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 15:51:51 UTC
From: Joe
Topic: 8385 Message: 8405
Attachments: 1 described; binary payloads are missing from this source WARC

Agreed.

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/6/2010 11:47 PM, Mike Manes wrote:
> So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
> envelope skin will vary from top to bottom as a function of the ambient gas
> density? Kind of a stretch, isn't it?
>
> On 9/6/2010 09:49, Mark Caviezel wrote:
>> (from Mike)
>> By your argument, if a He-filled balloon were in an H2 atmosphere, the
>> internal pressure gradient would reverse, with more pressure on the
>> bottom than the top.
>> ANSWER>>>>>> Yes.
>>
>> (from Mike)
>> How does the gas inside the balloon "know" what the density of the gas
>> outside the balloon is?
>> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
transmitted through the flexible wall of the balloon, be it latex or plastic.
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>> Yahoo! Groups Links
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8406. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 16:47:12 UTC
From: HarryM
Topic: 7187 Message: 8406

SigCHDK Guru's,

I messed around with CHDK and an intervalometer script on my SX200is last night for the first time. I can't believe all the functionality it provides. I had some fun with it.

I want to d/l some more scripts. Can you provide me with some links? I don't plan on writing my own at this time. Just use some pre-made ones & mod them.

I want to try a motion detection script for lightning stills and to control video.

TNX & 73!
Harry KC5TRB

8407. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 22:26:54 UTC
From: Zack Clobes
Topic: 8385 Message: 8407
Attachments: 1 described; binary payloads are missing from this source WARC

I've been lurking on this thread for some time, and finally decided to chime in with my $.02.

1. The static ground tests sound really good, but I'm not clear on how you will simultaneously add gas to the balloon, and measure the results in a highly-accurate and meaningful way. To inflate the balloon, you will have a hose entering the neck, with a higher-pressure source connected at the other end. Even if it's *slightly* higher in pressure, it seems unlikely that you will be able to detect such a low pressure differential seconds before burst, especially with the gas continuing to flow into the balloon.

2. I personally wouldn't think air vs. helium would make any difference in this test. If you do plan on wasting helium, just remember that filling a 600 gram balloon with a K tank to ~6 diameter is a WHOLE different story than filling that balloon to ~25' in diameter.

3. As far as the pressure gradient is concerned, I remember very clearly my physics teacher stating that the pressure inside of closed vessel is equal and opposite in all directions. That being said, it's possible that his description was an over-simplification for a Physics 101 course.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...> wrote:

> Agreed.
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
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> On 9/6/2010 11:47 PM, Mike Manes wrote:
>
> So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
> envelope skin will vary from top to bottom as a function of the ambient gas
> density? Kind of a stretch, isn't it?
>
> On 9/6/2010 09:49, Mark Caviezel wrote:
>
> (from Mike)

> By your argument, if a He-filled balloon were in an H2 atmosphere, the
> internal pressure gradient would reverse, with more pressure on the
> bottom than the top.
> ANSWER>>>>>> Yes.
>
> (from Mike)
> How does the gas inside the balloon "know" what the density of the gas
> outside the balloon is?
> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
transmitted through the flexible wall of the balloon, be it latex or plastic.
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> Yahoo! Groups Links
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8408. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 22:49:10 UTC
From: Joe
Topic: 8385 Message: 8408
Attachments: 1 described; binary payloads are missing from this source WARC

On 9/7/2010 5:26 PM, Zack Clobes wrote:
>
>
> I've been lurking on this thread for some time, and finally decided to
> chime in with my $.02.
>
> 1. The static ground tests sound really good, but I'm not clear on how
> you will simultaneously add gas to the balloon, and measure the
> results in a highly-accurate and meaningful way. To inflate the
> balloon, you will have a hose entering the neck, with a
> higher-pressure source connected at the other end. Even if it's
> /slightly/ higher in pressure, it seems unlikely that you will be able
> to detect such a low pressure differential seconds before burst,
> especially with the gas continuing to flow into the balloon.
I feel with the setup he has shown and if his flow is slow enough like a
flight where it's gonna take 2 hours to get to burst, the flow will be
slow enough that it shouldn't make any difference.
>
> 2. I personally wouldn't think air vs. helium would make any
> difference in this test. If you do plan on wasting helium, just
> remember that filling a 600 gram balloon with a K tank to ~6 diameter
> is a WHOLE different story than filling that balloon to ~25' in diameter.
I agree, either hang it and fill from the top, or add just enough HE
to make it airborne and a little more, then fill the rest with air.
>
> 3. As far as the pressure gradient is concerned, I remember very
> clearly my physics teacher stating that the pressure inside of closed
> vessel is equal and opposite in all directions. That being said, it's
> possible that his description was an over-simplification for a Physics
> 101 course.
Agreed! and I bet the key word here is "Closed" vessel, unlike a ZP PE
Balloon, or a Hot air balloon, or the Bucket with holes examples given.

Joe WB9SBD
Near Space Sciences
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
>
>
> On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...
> <mailto:nss@...>> wrote:

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> Agreed.
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> On 9/6/2010 11:47 PM, Mike Manes wrote:
>> So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
>> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
>> envelope skin will vary from top to bottom as a function of the ambient gas
>> density? Kind of a stretch, isn't it?
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>> On 9/6/2010 09:49, Mark Caviezel wrote:
>>> (from Mike)
>>> By your argument, if a He-filled balloon were in an H2 atmosphere, the
>>> internal pressure gradient would reverse, with more pressure on the
>>> bottom than the top.
>>> ANSWER>>>>>> Yes.
>>>
>>> (from Mike)
>>> How does the gas inside the balloon "know" what the density of the gas
>>> outside the balloon is?
>>> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
transmitted through the flexible wall of the balloon, be it latex or plastic.
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>>> Yahoo! Groups Links
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8409. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 22:50:35 UTC
From: Jerry Gable
Topic: 8385 Message: 8409

Zack,

Glad to here you are watching this.

As far as measuring the pressure and filling the balloon, this is what I am using: http://dl.dropbox.com/u/9446302/MeasureAndFill.jpg

It is made of 3/4" PVC. The air enters the balloon through the valve and fitting at the top of the picture. The port on the bottom of the picture is plugged. There is a 1/4 copper tube that goes through the middle of the PVC and extends about 18 inches inside of the balloon. This is used to measure the pressure. I drilled a hole through a small plastic ball and glued it on the end to prevent it from poking a hole in the balloon during insertion. The end of the tube is open.

During my experiment this last weekend I could not detect any pressure change when the air flow was turned on or off. Not even a mm of change in the manometer level so I think the fill and measurement are pretty isolated from each other.

I don't really plan on buying helium for a static test. I am trying to do this indoors and I don't think releasing that much helium would be safe.

Jerry

From: Zack Clobes <zclobes@...>
To: GPSL@yahoogroups.com
Sent: Tue, September 7, 2010 3:26:54 PM
Subject: Re: [GPSL] gas-static pressure, air column, water column, helium column

I've been lurking on this thread for some time, and finally decided to chime in with my $.02.

1. The static ground tests sound really good, but I'm not clear on how you will simultaneously add gas to the balloon, and measure the results in a highly-accurate and meaningful way. To inflate the balloon, you will have a hose entering the neck, with a higher-pressure source connected at the other end. Even if it's slightly higher in pressure, it seems unlikely that you will be able to detect such a low pressure differential seconds before burst, especially with the gas continuing to flow into the balloon.

2. I personally wouldn't think air vs. helium would make any difference in this test. If you do plan on wasting helium, just remember that filling a 600 gram balloon with a K tank to ~6 diameter is a WHOLE different story than filling that balloon to ~25' in diameter.

3. As far as the pressure gradient is concerned, I remember very clearly my physics teacher stating that the pressure inside of closed vessel is equal and opposite in all directions. That being said, it's possible that his description was an over-simplification for a Physics 101 course.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...> wrote:

Agreed.
>
>
>
>The Original Rolling Ball Clock
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>
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>On 9/6/2010 11:47 PM, Mike Manes wrote:
>So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
>>inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
>>envelope skin will vary from top to bottom as a function of the ambient gas
>>density? Kind of a stretch, isn't it?
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>>On 9/6/2010 09:49, Mark Caviezel wrote:
>>
>>(from Mike)
>>>By your argument, if a He-filled balloon were in an H2 atmosphere, the
>>>internal pressure gradient would reverse, with more pressure on the
>>>bottom than the top.
>>>ANSWER>>>>>> Yes.
>>>
>>>(from Mike)
>>>How does the gas inside the balloon "know" what the density of the gas
>>>outside the balloon is?
>>>ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
>>>transmitted through the flexible wall of the balloon, be it latex or plastic.
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>>>Yahoo! Groups Links
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8410. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 23:02:10 UTC
From: Jerry Gable
Topic: 8385 Message: 8410

On the pressure gradient topic, I have no idea what is correct but one thing I have observed is when ANSR launches a balloon, they have a solid piece of PVC that they leave in the neck for the flight. I have watched them hold the neck, unscrew the fitting in this PVC and add a plug. It appears that no helium is venting during this time. That implies that the pressure at the top is > than at the bottom.

It may just be that the pressure on the balloon is balanced because of the lift pulling against the weight on the neck.

Once I am done with my static pressure tests I may fill a 100g balloon with He and see if I can measure a gradient or see what happens if I have the neck open and constrain the balloon from the top (throw a net over it). If someone has some ideas on some experiments I am open to suggestions.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Tue, September 7, 2010 3:49:10 PM
Subject: Re: [GPSL] gas-static pressure, air column, water column, helium column

On 9/7/2010 5:26 PM, Zack Clobes wrote:
I've been lurking on this thread for some time, and finally decided to
chime in with my $.02.
>
>1. The static ground tests sound really good, but I'm not clear on how you
>will simultaneously add gas to the balloon, and measure the results in a
>highly-accurate and meaningful way. To inflate the balloon, you will have
>a hose entering the neck, with a higher-pressure source connected at the
>other end. Even if it's slightly higher in pressure, it seems unlikely that you
>will be able to detect such a low pressure differential seconds before
>burst, especially with the gas continuing to flow into the balloon.
>
I feel with the setup he has shown and if his flow is slow enough like a
flight where it's gonna take 2 hours to get to burst, the flow will be slow
enough that it shouldn't make any difference.

>2. I personally wouldn't think air vs. helium would make any difference in
>this test. If you do plan on wasting helium, just remember that filling a
>600 gram balloon with a K tank to ~6 diameter is a WHOLE different story
>than filling that balloon to ~25' in diameter.
>
I agree, either hang it and fill from the top, or add just enough HE to
make it airborne and a little more, then fill the rest with air.

>3. As far as the pressure gradient is concerned, I remember very clearly
>my physics teacher stating that the pressure inside of closed vessel is
>equal and opposite in all directions. That being said, it's possible that
>his description was an over-simplification for a Physics 101 course.
>
Agreed! and I bet the key word here is "Closed" vessel, unlike a ZP PE
Balloon, or a Hot air balloon, or the Bucket with holes examples given.

Joe WB9SBD
Near Space Sciences

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>Zack Clobes, W0ZC
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>>>>bottom than the top.
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8411. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-07 23:12:46 UTC
From: Joe
Topic: 8385 Message: 8411

On 9/7/2010 6:02 PM, Jerry Gable wrote:
>
>
> On the pressure gradient topic, I have no idea what is correct but one
> thing I have observed is when ANSR launches a balloon, they have a
> solid piece of PVC that they leave in the neck for the flight. I have
> watched them hold the neck, unscrew the fitting in this PVC and add a
> plug. It appears that no helium is venting during this time. That
> implies that the pressure at the top is > than at the bottom.
The Key word again is it appears. But when you have hundreds of cubic
feet in a balloon, and even if 10 cubic feet were to escape would you
see the difference? and then how many cubic feet under like 0.01 PSI is
actually going to escape?
>
> It may just be that the pressure on the balloon is balanced because of
> the lift pulling against the weight on the neck.
>
> Once I am done with my static pressure tests I may fill a 100g balloon
> with He and see if I can measure a gradient or see what happens if I
> have the neck open and constrain the balloon from the top (throw a net
> over it). If someone has some ideas on some experiments I am open to
> suggestions.
The 100 gram won't be a fair test. the internal pressure even when
barely filled will be many many times the pressure on a 1000 or 3000
gram balloon.

Joe WB9SBD
>
> Jerry
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Tue, September 7, 2010 3:49:10 PM
> *Subject:* Re: [GPSL] gas-static pressure, air column, water column,
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>
>
> On 9/7/2010 5:26 PM, Zack Clobes wrote:
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>> higher-pressure source connected at the other end. Even if it's
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> a flight where it's gonna take 2 hours to get to burst, the flow will
> be slow enough that it shouldn't make any difference.
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>> 2. I personally wouldn't think air vs. helium would make any
>> difference in this test. If you do plan on wasting helium, just
>> remember that filling a 600 gram balloon with a K tank to ~6 diameter
>> is a WHOLE different story than filling that balloon to ~25' in diameter.
> I agree, either hang it and fill from the top, or add just enough HE
> to make it airborne and a little more, then fill the rest with air.
>>
>> 3. As far as the pressure gradient is concerned, I remember very
>> clearly my physics teacher stating that the pressure inside of closed
>> vessel is equal and opposite in all directions. That being said,
>> it's possible that his description was an over-simplification for a
>> Physics 101 course.
> Agreed! and I bet the key word here is "Closed" vessel, unlike a ZP
> PE Balloon, or a Hot air balloon, or the Bucket with holes examples
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> Joe WB9SBD
> Near Space Sciences
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>> Zack Clobes, W0ZC
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>> On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...
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>>> density? Kind of a stretch, isn't it?

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>>>> (from Mike)
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8412. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 02:00:54 UTC
From: Michael Willett
Topic: 8385 Message: 8412

On 9/7/2010 6:02 PM, Jerry Gable wrote:
> On the pressure gradient topic, I have no idea what is correct but one
> thing I have observed is when ANSR launches a balloon, they have a
> solid piece of PVC that they leave in the neck for the flight. I have
> watched them hold the neck, unscrew the fitting in this PVC and add a
> plug. It appears that no helium is venting during this time. That
> implies that the pressure at the top is > than at the bottom.

There is pressure there. You can refer to the flight graph presented at the GPSL this year by ARBONET. The pressure of the very lightly loaded 1200Gr balloon we flew was greatest on the ground and a few thousand feet in the air and then tailed off with altitude until just prior to burst. These were actual, in-flight pressure measurements with helium. Unless extremely lightly filled, such as a ZP balloon, there will be pressure at the neck.

>>
>> 3. As far as the pressure gradient is concerned, I remember very
>> clearly my physics teacher stating that the pressure inside of closed
>> vessel is equal and opposite in all directions. That being said,
>> it's possible that his description was an over-simplification for a
>> Physics 101 course.

Not an over simplification at all. Other than the slight effect of gravity, I believe this to be 100% correct, regardless of shape.

--Michael
K5NOT

8413. Re: [GPSL] internal gas pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 03:58:21 UTC
From: Mike Manes
Topic: 8398 Message: 8413

The hydrostatic pressure gradient in your holey water bucket is developed as that necessary to support the mass of the column of water above it. By the same token, the gradient in a gas balloon is developed as that necessary to support the mass of the column of gas above it; for He, that wouldn't amount to anything measurable with a water manometer. That is what I meant earlier by my reference to gravitational gradient.

And your explanation relating envelope skin stress as a function of pressure and curvature sheds no contrary light.

In both cases, we are referring to >absolute< pressures, independent of the ambient density outside the envelope. And in both cases, that pressure will >increase< towards the bottom of the envelope.

It's understandable to pass on the notion that the pressure of the lifting gas is greater at the top of the balloon, since that's where the force of the lifting gas is acting, isn't it? However, that force on the top of the balloon isn't due to the buoyancy of the gas, but rather due to the neck load and the mass of the envelope pulling down on the balloon and, during ascent, the drag of the air pounding down on the top of the balloon.

Imagine a balloon made from that rarest of all materials, Noweightum (created by expulsion of all Higg's Bosons from the envelope material), with no neck load, and with no drag load due to a strong updraft, i.e. zero vertical airspeed. Would there be any gradient that couldn't be accounted for by the simple hydrostatic model?

73 de Mike W5VSI

On 9/7/2010 07:03, Mark Caviezel wrote:
> (from Mike) So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
> envelope skin will vary from top to bottom as a function of the ambient gas
> density? Kind of a stretch, isn't it?
>
>>>>>>> Answer>>>> Just as the hydrostatic head is a function of depth in a metal bucket or a similar depth plastic bad filled with water, the gas static head of a ZP helium balloon is function of the height from the bottom of the helium to the top of the balloon. The tensile stress in the envelope skin is
>
> stress = (internal pressure) x (radius of curvature) / (2 * skin thickness)
>
> The NASA ULDB guys try to reduce the skin stress by using external tendons to decrease the radius of curvature. Most hot air balloons also have a

certain amount of bulbousness for the same reason.
>
> - Mark ng0x
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8414. Re: [GPSL] internal gas pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 12:46:02 UTC
From: Michael Willett
Topic: 8398 Message: 8414

>
> It's understandable to pass on the notion that the pressure of the lifting
> gas is greater at the top of the balloon, since that's where the force of
> the lifting gas is acting, isn't it? However, that force on the top of
> the balloon isn't due to the buoyancy of the gas, but rather due to
> the neck load and the mass of the envelope pulling down on the balloon
> and, during ascent, the drag of the air pounding down on the top of
> the balloon.
>

I view this lifting notion extremely simplified as pinching a slippery water-melon seed between your fingers, the pressure on the sides and bottom forces the seed to escape towards the area of less pressure, and in this case it is the slightly less pressure above the balloon due to the tiny relative displacement caused by the balloon and helium itself. Pretty amazing that this minuscule displacement in a virtual column of air can provide that much lift!

> Imagine a balloon made from that rarest of all materials, Noweightum
> (created by expulsion of all Higg's Bosons from the envelope material),
> with no neck load, and with no drag load due to a strong updraft, i.e.
> zero vertical airspeed. Would there be any gradient that couldn't be
> accounted for by the simple hydrostatic model?
>

I found Noweightium impossible to find, so I started using LessaMassium, which is made by politely asking the helium atoms to share their electron bonds with one another only, rather than dispersing among the pesky nitrogen, oxygen and other over-weight neighbors, while also attracting free-agent helium atoms into the helium community during the ascent. Unfortunately, we can not share the details of the helium community contract we have with others, but in short, this arrangement promises 366,000 feet on our next flight unless atomic anti-segregation rules are enforced. We are still working on the details on how to tie our payloads the helium atoms, we are still seeking little tiny strings to accomplish the job.

--Michael
K5NOT

>
> 73 de Mike W5VSI
>
> On 9/7/2010 07:03, Mark Caviezel wrote:
> > (from Mike) So, your pressure gradient wouldn't appear in a rigid
> envelope,

> e.g., a fully
> > inflated ZP or SP envelope? Or are you arguing that the tensile
> stress in the
> > envelope skin will vary from top to bottom as a function of the
> ambient gas
> > density? Kind of a stretch, isn't it?
> >
> >>>>>>> Answer>>>> Just as the hydrostatic head is a function of depth
> in a
> metal bucket or a similar depth plastic bad filled with water, the gas
> static
> head of a ZP helium balloon is function of the height from the bottom
> of the
> helium to the top of the balloon. The tensile stress in the envelope
> skin is
> >
> > stress = (internal pressure) x (radius of curvature) / (2 * skin
> thickness)
> >
> > The NASA ULDB guys try to reduce the skin stress by using external
> tendons
> to decrease the radius of curvature. Most hot air balloons also have a
> certain amount of bulbousness for the same reason.
> >
> > - Mark ng0x
> >
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8415. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 13:22:11 UTC
From: L. Paul Verhage
Topic: 8385 Message: 8415

NSTAR has some footage of a balloon slipping off the filler and flying
away. Mark, was the balloon flying away like a toy balloon filled with air,
or was it floating away?

Paul

On Tue, Sep 7, 2010 at 6:02 PM, Jerry Gable <jerrygable@...> wrote:

>
>
> On the pressure gradient topic, I have no idea what is correct but one
> thing I have observed is when ANSR launches a balloon, they have a solid
> piece of PVC that they leave in the neck for the flight. I have watched
> them hold the neck, unscrew the fitting in this PVC and add a plug. It
> appears that no helium is venting during this time. That implies that the
> pressure at the top is > than at the bottom.
>
> It may just be that the pressure on the balloon is balanced because of the
> lift pulling against the weight on the neck.
>
> Once I am done with my static pressure tests I may fill a 100g balloon with
> He and see if I can measure a gradient or see what happens if I have the
> neck open and constrain the balloon from the top (throw a net over it). If
> someone has some ideas on some experiments I am open to suggestions.
>
> Jerry
>
> ------------------------------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Tue, September 7, 2010 3:49:10 PM
>
> *Subject:* Re: [GPSL] gas-static pressure, air column, water column,
> helium column
>
>
> On 9/7/2010 5:26 PM, Zack Clobes wrote:
>
> I've been lurking on this thread for some time, and finally decided to
> chime in with my $.02.
>
> 1. The static ground tests sound really good, but I'm not clear on how you
> will simultaneously add gas to the balloon, and measure the results in a
> highly-accurate and meaningful way. To inflate the balloon, you will have a
> hose entering the neck, with a higher-pressure source connected at the other
> end. Even if it's *slightly* higher in pressure, it seems unlikely that

> you will be able to detect such a low pressure differential seconds before
> burst, especially with the gas continuing to flow into the balloon.
>
> I feel with the setup he has shown and if his flow is slow enough like a
> flight where it's gonna take 2 hours to get to burst, the flow will be slow
> enough that it shouldn't make any difference.
>
>
> 2. I personally wouldn't think air vs. helium would make any difference in
> this test. If you do plan on wasting helium, just remember that filling a
> 600 gram balloon with a K tank to ~6 diameter is a WHOLE different story
> than filling that balloon to ~25' in diameter.
>
> I agree, either hang it and fill from the top, or add just enough HE to
> make it airborne and a little more, then fill the rest with air.
>
>
> 3. As far as the pressure gradient is concerned, I remember very clearly
> my physics teacher stating that the pressure inside of closed vessel is
> equal and opposite in all directions. That being said, it's possible that
> his description was an over-simplification for a Physics 101 course.
>
> Agreed! and I bet the key word here is "Closed" vessel, unlike a ZP PE
> Balloon, or a Hot air balloon, or the Bucket with holes examples given.
>
> Joe WB9SBD
> Near Space Sciences
>
>
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
> On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...> wrote:
>
>> Agreed.
>>
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://idle-tyme.com/>
>> http://www.idle-tyme.com
>>
>> On 9/6/2010 11:47 PM, Mike Manes wrote:
>>
>> So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
>> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
>> envelope skin will vary from top to bottom as a function of the ambient gas

>> density? Kind of a stretch, isn't it?
>>
>> On 9/6/2010 09:49, Mark Caviezel wrote:
>>
>> (from Mike)
>> By your argument, if a He-filled balloon were in an H2 atmosphere, the
>> internal pressure gradient would reverse, with more pressure on the
>> bottom than the top.
>> ANSWER>>>>>> Yes.
>>
>> (from Mike)
>> How does the gas inside the balloon "know" what the density of the gas
>> outside the balloon is?
>> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
transmitted through the flexible wall of the balloon, be it latex or plastic.
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>> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8416. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 13:25:27 UTC
From: Mark Conner
Topic: 8385 Message: 8416

It had buoyancy, definitely.

http://www.youtube.com/watch?v=FE8SPugjtwM

- Mark

On Wed, Sep 8, 2010 at 08:22, L. Paul Verhage <nearsys@...> wrote:

>
>
> NSTAR has some footage of a balloon slipping off the filler and flying
> away. Mark, was the balloon flying away like a toy balloon filled with air,
> or was it floating away?
>
> Paul
>
> On Tue, Sep 7, 2010 at 6:02 PM, Jerry Gable <jerrygable@...> wrote:
>
>>
>>
>> On the pressure gradient topic, I have no idea what is correct but one
>> thing I have observed is when ANSR launches a balloon, they have a solid
>> piece of PVC that they leave in the neck for the flight. I have watched
>> them hold the neck, unscrew the fitting in this PVC and add a plug. It
>> appears that no helium is venting during this time. That implies that the
>> pressure at the top is > than at the bottom.
>>
>> It may just be that the pressure on the balloon is balanced because of the
>> lift pulling against the weight on the neck.
>>
>> Once I am done with my static pressure tests I may fill a 100g balloon
>> with He and see if I can measure a gradient or see what happens if I have
>> the neck open and constrain the balloon from the top (throw a net over it).
>> If someone has some ideas on some experiments I am open to suggestions.
>>
>> Jerry
>>
>> ------------------------------
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Tue, September 7, 2010 3:49:10 PM
>>
>> *Subject:* Re: [GPSL] gas-static pressure, air column, water column,
>> helium column
>>
>>

>> On 9/7/2010 5:26 PM, Zack Clobes wrote:
>>
>> I've been lurking on this thread for some time, and finally decided to
>> chime in with my $.02.
>>
>> 1. The static ground tests sound really good, but I'm not clear on how you
>> will simultaneously add gas to the balloon, and measure the results in a
>> highly-accurate and meaningful way. To inflate the balloon, you will have a
>> hose entering the neck, with a higher-pressure source connected at the other
>> end. Even if it's *slightly* higher in pressure, it seems unlikely that
>> you will be able to detect such a low pressure differential seconds before
>> burst, especially with the gas continuing to flow into the balloon.
>>
>> I feel with the setup he has shown and if his flow is slow enough like a
>> flight where it's gonna take 2 hours to get to burst, the flow will be slow
>> enough that it shouldn't make any difference.
>>
>>
>> 2. I personally wouldn't think air vs. helium would make any difference in
>> this test. If you do plan on wasting helium, just remember that filling a
>> 600 gram balloon with a K tank to ~6 diameter is a WHOLE different story
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>>
>> I agree, either hang it and fill from the top, or add just enough HE to
>> make it airborne and a little more, then fill the rest with air.
>>
>>
>> 3. As far as the pressure gradient is concerned, I remember very clearly
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>> equal and opposite in all directions. That being said, it's possible that
>> his description was an over-simplification for a Physics 101 course.
>>
>> Agreed! and I bet the key word here is "Closed" vessel, unlike a ZP PE
>> Balloon, or a Hot air balloon, or the Bucket with holes examples given.
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>> Joe WB9SBD
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>>
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
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>>
>> On Tue, Sep 7, 2010 at 10:51 AM, Joe <nss@...> wrote:
>>
>>> Agreed.
>>>
>>>

>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://idle-tyme.com/>
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>>> On 9/6/2010 11:47 PM, Mike Manes wrote:
>>>
>>> So, your pressure gradient wouldn't appear in a rigid envelope, e.g., a fully
>>> inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
>>> envelope skin will vary from top to bottom as a function of the ambient gas
>>>
>>> density? Kind of a stretch, isn't it?
>>>
>>> On 9/6/2010 09:49, Mark Caviezel wrote:
>>>
>>> (from Mike)
>>> By your argument, if a He-filled balloon were in an H2 atmosphere, the
>>> internal pressure gradient would reverse, with more pressure on the
>>> bottom than the top.
>>> ANSWER>>>>>> Yes.
>>>
>>> (from Mike)
>>> How does the gas inside the balloon "know" what the density of the gas
>>> outside the balloon is?
>>> ANSWER>>>>>> In direct terms, it does not know the density, but the PRESSURE is
transmitted through the flexible wall of the balloon, be it latex or plastic.
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> Onwards and Upwards,
> Paul
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8417. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 13:43:40 UTC
From: Pete Lilja
Topic: 8385 Message: 8417

We recently had an escapee and while I stood mouth agape watching the 1200 gram He balloon float away I remember thinking it looked rather serene. The balloon was nearly filled to release size and when it spit the plug in it's nozzle and left it just sort of blobbed around and floated up. With no neck load it was just a free-form floating bag. It didn't spin like a released party balloon but it wasn't fill-stretched all that much either.

We use a PVC nozzle with a threaded plug when flying HABs. I, too, have noticed that when we pull the fill nozzle to place the screw-in plug for flight there is very little, if any, back pressure pushing out of the balloon. We always feel a sense of rush to get the balloon plugged but I really don't think it's necessary. It seems the lifting gas 'likes' to be in the balloon envelope!

Pete
KC0GPB

On Wed, Sep 8, 2010 at 8:22 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> NSTAR has some footage of a balloon slipping off the filler and flying
> away. Mark, was the balloon flying away like a toy balloon filled with air,
> or was it floating away?
>
> Paul
>
>
>

8418. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 14:20:09 UTC
From: Brenden Geary
Topic: 7187 Message: 8418

Thank you for all your guys' help. After hours of Google searches I finally understood CHDK enough to modify one of the scrips I found to work for us. I also found a way to shut off the display completely, all you have to do is plug in an AV out cable in and cut of the end.
--- On Tue, 9/7/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@gmail.com>
Subject: Re: [GPSL] CHDK Scripts
To: GPSL@yahoogroups.com
Date: Tuesday, September 7, 2010, 6:04 AM

The whole CHDK is a prety neat system, but man....

I'm trying to get my A550 to run the script I select, but often I'm finding it's a different script or the silly default one. Consistency is my biggest problem now. After that, I want to default the script to mine.

What I'd like to see is a CHDK editor that will syntax check your script befre loadig it in the camera. I find the parse errors my camera reports unhelpful, as they don't tell me where the problem lies.

Otherwise, cool over all.

Paul

On Mon, Sep 6, 2010 at 8:47 PM, Zack Clobes <zclobes@...> wrote:

I finally got my 570IS to run MY script at startup. There's an item in the menu that's fairly obvious once you see it. I think the problem that I had was that I changed the value, but didn't actually SET it before exiting the menu. Once I held my nose right, it took.

Sorry, I don't have the camera nearby to tell you what that setting was.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Sep 6, 2010 at 7:51 PM, L. Paul Verhage <nearsys@gmail.com> wrote:

I'm trying to get a script to start up when I power up the camera. The Canon A550 wants to run its default script. Does anyone run their default script at power up?

Paul

On Mon, Sep 6, 2010 at 3:41 PM, Rick von Glahn <rick@fastmail.us> wrote:

Brenden,

I don't recall ever having a failure of the screen off command, but I wrote the script for an A570is powershot. Here is the page where I documented the

process:

http://eoss.org/hardware/canon_a570is.htm

I don't have the camera anymore, it's in the EOSS "warehouse". So I can't do

any testing but, as you can see from the video linked to the above page, the display does turn off.

It was my experience that the camera would take over 1400 pictures on a single set of lithiums when placed in a freezer (-5F or so). So, I think it

should fly through one mission with the display on. Course... it all depends on the frequency of your shooting schedule. I take photos once every 6 or so seconds for a while during launch and climb out. Then the camera backs off

to a slower rate until it once again approaches the ground. We run something like 750 pictures per flight.

73 -- Rick

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf

> Of Brenden Geary
> Sent: Monday, September 06, 2010 1:12 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] CHDK Scripts
>
> I am having some trouble getting my script to not use the screen. I am

using a
> Canon Powershot A470, would you be willing to send me your CHDK script.
>
> Thanks,
> Brenden
>
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> Yahoo! Groups Links
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Yahoo! Groups Links

(Yahoo! ID required)

http://docs.yahoo.com/info/terms/

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Onwards and Upwards,
Paul

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Onwards and Upwards,
Paul

8419. October Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 19:28:14 UTC
From: L. Paul Verhage
Topic: 8419 Message: 8419

I've been asked about launching a balloon for Washburn Univeristy in Topeka in October. I'm wondering if I can shake up some help with filling, chasing, and recovery.

By the way, I just ordered a Find Me Spot. I'd like to send it up on this flight as a backup tracker (that only puts me 2 years behind Bill). I'd really like to put it into a back pack with a parachute for a Tickle Me Elmo doll and call the whole thing, Find Me Elmo.

Thanks,
Paul

--
Onwards and Upwards,
Paul

8420. Re: [GPSL] October Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 19:35:11 UTC
From: Mark Conner
Topic: 8419 Message: 8420

Better yet, you can either launch from here, or drop Elmo here:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=Elmo,+KS&sll=38.685543,-97.225657&sspn=0.029814,0.066047&ie=UTF8&hq=&hnear=Elmo,+Dickinson,+Kansas&ll=38.681791,-97.227416&spn=0.029816,0.066047&z=15

(we drove through here for GPSL 2002 recoveries)

- Mark

On Wed, Sep 8, 2010 at 14:28, L. Paul Verhage <nearsys@...> wrote:

>
>
> I've been asked about launching a balloon for Washburn Univeristy in Topeka
> in October. I'm wondering if I can shake up some help with filling,
> chasing, and recovery.
>
> By the way, I just ordered a Find Me Spot. I'd like to send it up on this
> flight as a backup tracker (that only puts me 2 years behind Bill). I'd
> really like to put it into a back pack with a parachute for a Tickle Me Elmo
> doll and call the whole thing, Find Me Elmo.
>
> Thanks,
> Paul
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8421. Re: [GPSL] October Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 19:38:26 UTC
From: L. Paul Verhage
Topic: 8419 Message: 8421

Ummm, that's not too far away (considering). Perhaps I ought to plan for a
launch there.
;)

Anyone interested in visiting Elmo, KS for a launch in say October?

Paul

On Wed, Sep 8, 2010 at 2:35 PM, Mark Conner <mconner1@...> wrote:

>
>
> Better yet, you can either launch from here, or drop Elmo here:
>
>
> http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=Elmo,+KS&sll=38.685543,-97.2
25657&sspn=0.029814,0.066047&ie=UTF8&hq=&hnear=Elmo,+Dickinson,+Kansas&ll=38.681791,-97.22
7416&spn=0.029816,0.066047&z=15
>
> (we drove through here for GPSL 2002 recoveries)
>
> - Mark
>
>
> On Wed, Sep 8, 2010 at 14:28, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> I've been asked about launching a balloon for Washburn Univeristy in
>> Topeka in October. I'm wondering if I can shake up some help with filling,
>> chasing, and recovery.
>>
>> By the way, I just ordered a Find Me Spot. I'd like to send it up on this
>> flight as a backup tracker (that only puts me 2 years behind Bill). I'd
>> really like to put it into a back pack with a parachute for a Tickle Me Elmo
>> doll and call the whole thing, Find Me Elmo.
>>
>> Thanks,
>> Paul
>>
>> --
>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8422. Email to Bill

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-08 19:39:52 UTC
From: L. Paul Verhage
Topic: 8422 Message: 8422

Bill, I sent email to your AOL account and it got returned (for being full). I also sent a message to your gmail account, so you should get that one.

Thanks.

--
Onwards and Upwards,
Paul

8423. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 04:51:18 UTC
From: Mike Manes
Topic: 8385 Message: 8423

The pressure inside a latex balloon on the deck that's filled for
flight that will expect the gas volume to expand some 100x is very
low - like a small fraction of an inch WC. And that's not going to
produce a sensible rush of gas out that 1/2" NPT orifice - but if one
dared to snort in a lungful of the gas just outside that orifice, one
could determine that, yes, Squeeky, it's He. Try it with a pibal
sometime.

Here's another experiment to determine the pressure difference
between the top and bottom of a balloon:

Rig up a pressure tap on the top of a balloon and feed it to
one side of a manometer, with the other side going to the neck
on the bottom. If there's a measurable pressure difference, then
disconnect the manometer and connect the two sensing lines together,
end to end. Since there's a pressure difference between the far
ends of the new 2-piece line, then there will be gas flow from the
high pressure end to the low pressure end, right? Put in a little
turbine, hook it to a generator and use it to power your payloads -
forever!

Or not.

73 de Mike W5VSI

On 9/8/2010 07:43, Pete Lilja wrote:
>
>
> We recently had an escapee and while I stood mouth agape watching the 1200
> gram He balloon float away I remember thinking it looked rather serene. The
> balloon was nearly filled to release size and when it spit the plug in it's
> nozzle and left it just sort of blobbed around and floated up. With no neck
> load it was just a free-form floating bag. It didn't spin like a released
> party balloon but it wasn't fill-stretched all that much either.
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> We use a PVC nozzle with a threaded plug when flying HABs. I, too, have
> noticed that when we pull the fill nozzle to place the screw-in plug for
> flight there is very little, if any, back pressure pushing out of the
> balloon. We always feel a sense of rush to get the balloon plugged but I
> really don't think it's necessary. It seems the lifting gas 'likes' to be in
> the balloon envelope!
>
> Pete
> KC0GPB
>
>

>
> On Wed, Sep 8, 2010 at 8:22 AM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
> NSTAR has some footage of a balloon slipping off the filler and flying
> away. Mark, was the balloon flying away like a toy balloon filled with
> air, or was it floating away?
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8424. Re: [GPSL] internal gas pressure

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 04:21:03 UTC
From: Mike Manes
Topic: 8398 Message: 8424

Gasses don't behave like solids, and not all that much like liquids, either. Gas molecules are anti-social and will move to put as much space as possible between themselves and their neighbors, even risking bodily injury by banging against the walls of whatever encloses them.

I'm still waiting for CERN to respond to my order for a 3000 gm latex balloon that's had its Higgs bosons removed. Can't understand the delay. I mean, how much time in the LHC would it take? :=)

73 de Mike W5VSI

On 9/8/2010 06:46, Michael Willett wrote:
>
>
>
>> It's understandable to pass on the notion that the pressure of the lifting
>> gas is greater at the top of the balloon, since that's where the force of
>> the lifting gas is acting, isn't it? However, that force on the top of
>> the balloon isn't due to the buoyancy of the gas, but rather due to
>> the neck load and the mass of the envelope pulling down on the balloon
>> and, during ascent, the drag of the air pounding down on the top of
>> the balloon.
>>
>
> I view this lifting notion extremely simplified as pinching a slippery
> water-melon seed between your fingers, the pressure on the sides and bottom
> forces the seed to escape towards the area of less pressure, and in this case
> it is the slightly less pressure above the balloon due to the tiny relative
> displacement caused by the balloon and helium itself. Pretty amazing that this
> minuscule displacement in a virtual column of air can provide that much lift!
>
>> Imagine a balloon made from that rarest of all materials, Noweightum
>> (created by expulsion of all Higg's Bosons from the envelope material),
>> with no neck load, and with no drag load due to a strong updraft, i.e.
>> zero vertical airspeed. Would there be any gradient that couldn't be
>> accounted for by the simple hydrostatic model?
>>
>
> I found Noweightium impossible to find, so I started using LessaMassium, which
> is made by politely asking the helium atoms to share their electron bonds with
> one another only, rather than dispersing among the pesky nitrogen, oxygen and
> other over-weight neighbors, while also attracting free-agent helium atoms
> into the helium community during the ascent. Unfortunately, we can not share
> the details of the helium community contract we have with others, but in
> short, this arrangement promises 366,000 feet on our next flight unless atomic
> anti-segregation rules are enforced. We are still working on the details on

> how to tie our payloads the helium atoms, we are still seeking little tiny
> strings to accomplish the job.
>
>
> --Michael
> K5NOT
>
>
>>
>> 73 de Mike W5VSI
>>
>> On 9/7/2010 07:03, Mark Caviezel wrote:
>> > (from Mike) So, your pressure gradient wouldn't appear in a rigid envelope,
>> e.g., a fully
>> > inflated ZP or SP envelope? Or are you arguing that the tensile stress in the
>> > envelope skin will vary from top to bottom as a function of the ambient gas
>> > density? Kind of a stretch, isn't it?
>> >
>> >>>>>>> Answer>>>> Just as the hydrostatic head is a function of depth in a
>> metal bucket or a similar depth plastic bad filled with water, the gas static
>> head of a ZP helium balloon is function of the height from the bottom of the
>> helium to the top of the balloon. The tensile stress in the envelope skin is
>> >
>> > stress = (internal pressure) x (radius of curvature) / (2 * skin thickness)
>> >
>> > The NASA ULDB guys try to reduce the skin stress by using external tendons
>> to decrease the radius of curvature. Most hot air balloons also have a
>> certain amount of bulbousness for the same reason.
>> >
>> > - Mark ng0x
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>> --
>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
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8425. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 13:11:30 UTC
From: L. Paul Verhage
Topic: 8385 Message: 8425

Speaking of snorting helium.....

http://www.youtube.com/watch?v=NxiipP-ZRYg

Paul "Yes, that's just my normal voice" Verhage

On Wed, Sep 8, 2010 at 11:51 PM, Mike Manes <mrmanes@...> wrote:

> The pressure inside a latex balloon on the deck that's filled for
> flight that will expect the gas volume to expand some 100x is very
> low - like a small fraction of an inch WC. And that's not going to
> produce a sensible rush of gas out that 1/2" NPT orifice - but if one
> dared to snort in a lungful of the gas just outside that orifice, one
> could determine that, yes, Squeeky, it's He. Try it with a pibal
> sometime.
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> Here's another experiment to determine the pressure difference
> between the top and bottom of a balloon:
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> Rig up a pressure tap on the top of a balloon and feed it to
> one side of a manometer, with the other side going to the neck
> on the bottom. If there's a measurable pressure difference, then
> disconnect the manometer and connect the two sensing lines together,
> end to end. Since there's a pressure difference between the far
> ends of the new 2-piece line, then there will be gas flow from the
> high pressure end to the low pressure end, right? Put in a little
> turbine, hook it to a generator and use it to power your payloads -
> forever!
>
> Or not.
>
> 73 de Mike W5VSI
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> On 9/8/2010 07:43, Pete Lilja wrote:
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> > We recently had an escapee and while I stood mouth agape watching the
> 1200
> > gram He balloon float away I remember thinking it looked rather serene.
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> > balloon was nearly filled to release size and when it spit the plug in
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> > nozzle and left it just sort of blobbed around and floated up. With no
> neck
> > load it was just a free-form floating bag. It didn't spin like a
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> > party balloon but it wasn't fill-stretched all that much either.
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> > We use a PVC nozzle with a threaded plug when flying HABs. I, too, have
> > noticed that when we pull the fill nozzle to place the screw-in plug for
> > flight there is very little, if any, back pressure pushing out of the
> > balloon. We always feel a sense of rush to get the balloon plugged but I
> > really don't think it's necessary. It seems the lifting gas 'likes' to
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> > the balloon envelope!
> >
> > Pete
> > KC0GPB
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> > On Wed, Sep 8, 2010 at 8:22 AM, L. Paul Verhage <nearsys@...
> > <mailto:nearsys@...>> wrote:
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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Onwards and Upwards,
Paul

8426. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 13:39:11 UTC
From: Pete Lilja
Topic: 8385 Message: 8426

And then there is the anti-HAB
gas<http://www.youtube.com/watch?v=8B9rDZZaKs8>Sulfur Hexafluoride!

Pete
KC0GPB

On Thu, Sep 9, 2010 at 8:11 AM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Speaking of snorting helium.....
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> http://www.youtube.com/watch?v=NxiipP-ZRYg
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>> Or not.
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>> 73 de Mike W5VSI
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>> Yahoo! Groups Links
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> Onwards and Upwards,
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>

8427. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 13:43:00 UTC
From: L. Paul Verhage
Topic: 8385 Message: 8427

I saw a physics demonstration on SF6 several years ago. I was told there is
a danger in that you may not be able to clear the gas as fast from your
lungs. I suppose if you get light-headed, you need to stand on your head to
get it out of your lungs.

The balloon dropped almost like a rock, in this demo.

Cool stuff and a great insulator.

Paul

On Thu, Sep 9, 2010 at 8:39 AM, Pete Lilja <plilja@...> wrote:

>
>
> And then there is the anti-HAB gas<http://www.youtube.com/watch?v=8B9rDZZaKs8>Sulfur
Hexafluoride!
>
> Pete
> KC0GPB
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> On Thu, Sep 9, 2010 at 8:11 AM, L. Paul Verhage <nearsys@...> wrote:
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>>> Or not.
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8428. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 14:13:53 UTC
From: Roger Hammond
Topic: 8385 Message: 8428

Yes it is, in recent years we have replaced all of our oil-filled circuit
breakers with SF6 circuit breakers in our substations.

Rog KC0MWM

>
> Cool stuff and a great insulator.
>
> Paul
>
> On Thu, Sep 9, 2010 at 8:39 AM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> And then there is the anti-HAB gas<http://www.youtube.com/watch?v=8B9rDZZaKs8>Sulfur
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8429. Re: [GPSL] gas-static pressure, air column, water column, helium column

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 14:20:09 UTC
From: L. Paul Verhage
Topic: 8385 Message: 8429

Interesting. I figured it would be more difficult to seal a circuit breaker
air tight than it would be oil tight.

At K-State (that "other" Kansas school), they use it as an insulator for the
Van deGraff that powers their linear accelerator.

Paul

On Thu, Sep 9, 2010 at 9:13 AM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Yes it is, in recent years we have replaced all of our oil-filled circuit
> breakers with SF6 circuit breakers in our substations.
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> Rog KC0MWM
>
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>> Cool stuff and a great insulator.
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>>>>> Or not.
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>>>>> 73 de Mike W5VSI
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Onwards and Upwards,
Paul

8430. Re: [GPSL] CHDK Scripts

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-09 16:19:57 UTC
From: HarryM
Topic: 7187 Message: 8430

Paul,

On my camera it will display the line number of the
script error in the upper left of the screen.

For a debugger I d/l UBDebug and only briefly looked at it.
It may be what your looking for. You can find it here...
http://www.zenoshrdlu.com/kapstuff/zubdb.html

73 Harry KC5TRB

What I'd like to see is a CHDK editor that will syntax check your script befre loadig it in the camera. I find the parse errors my camera reports unhelpful, as they don't tell me where the problem lies.

8431. Re: [KNSP] NSTAR Flight 10-C postponed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 04:45:55 UTC
From: HarryM
Topic: 8431 Message: 8431

----- Original Message -----
From: Mark Conner
To: KNSP List ; bellevuearc@yahoogroups.com ; Balloon_Sked ; midwestaprs@yahoogroups.com ; sarpyraces@yahoogroups.com
Sent: Friday, September 10, 2010 10:16 PM
Subject: [KNSP] NSTAR Flight 10-C postponed

Due to the probability of strong winds at the surface and aloft, NSTAR Flight 10-C will not take place this Sunday. Surface winds are expected to be at least 10 mph and gusts to 25 mph are possible. If we launched, the landing would be 20-25 miles south of Creston IA (a 125-mile drive from the launch site), which is farther than we really want to go.

Our next opportunity is either October 10 or 24.

73 de Mark N9XTN

8432. CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 14:25:37 UTC
From: k6rpt
Topic: 8432 Message: 8432

CNSP is planning flight K6RPT-16, that will be a high altitude attempt.

APRS Tracking system is being put together with an estimated payload weight of 5 oz.

3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06 lbs, Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude 137K

The target launch date is October 2010.

http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

8433. Re: [GPSL] CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 14:58:20 UTC
From: Joe
Topic: 8432 Message: 8433
Attachments: 1 described; binary payloads are missing from this source WARC

Morning Ron,

Will be watching with excitement again. I hope you the best, and we all hope something like last flight doesn't happen again.

Be sure to hit the E-Mail lists again BIG just before the launch a day or two so we know exactly when it's going.

Do you care to tell how you are calculating your burst altitude? Just curious.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 9:25 AM, k6rpt wrote:
> CNSP is planning flight K6RPT-16, that will be a high altitude attempt.
>
> APRS Tracking system is being put together with an estimated payload weight of 5 oz.
>
> 3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06 lbs, Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude 137K
>
> The target launch date is October 2010.
>
> http://www.CaliforniaNearSpaceProject.com
>
> -Ron K6RPT
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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8434. CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 15:24:39 UTC
From: HarryM
Topic: 8434 Message: 8434

I apologize for the wrong posting. I'm not sure what is happening.
The post is not what I sent... "Re: [KNSP] NSTAR Flight 10-C postponed".

Formatting large BOOT SD cards for CHDK

Does anyone have a proceedure to format larger than 4gb SD cards to boot for use with CHDK? I have tried every instruction on the Web that I could find and none will work. I have used CardTricks, HDhacker & HXD with no results. The camera I'm using is an SX-200is. I can get cards up to 4gb to boot just fine.

Harry KC5TRB

8435. Re: [EOSS] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 15:45:28 UTC
From: Joe
Topic: 8434 Message: 8435
Attachments: 1 described; binary payloads are missing from this source WARC

Might be the Camera,

We use a 16 gig card in our A560 and it works just fine.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 10:24 AM, HarryM wrote:
> I apologize for the wrong posting. I'm not sure what is happening.
> The post is not what I sent... "Re: [KNSP] NSTAR Flight 10-C postponed".
>
> -----
>
> Formatting large BOOT SD cards for CHDK
>
> Does anyone have a proceedure to format larger than 4gb SD cards to boot for use with CHDK? I have tried every instruction on the Web that I could find and none will work. I have used CardTricks, HDhacker& HXD with no results. The camera I'm using is an SX-200is. I can get cards up to 4gb to boot just fine.
>
> Harry KC5TRB
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

8436. Re: CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 16:13:29 UTC
From: k6rpt
Topic: 8432 Message: 8436

Hi Joe,

We are just using Liftwin and I'm sure we will not get too that altitude.

We feel with the sharp decrease in the ascend rate, the last flight must have had a pinhole.

The last flight had an average ascend rate of 800 fpm so we dropped our free lift to 1 lb and reduced the weight of the APRS tracker to 5 oz (maybe under 5 oz, still testing), the fill will be reduced by 15 cubic feet.

We are open to any comments or suggestions.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Morning Ron,
>
> Will be watching with excitement again. I hope you the best, and we all
> hope something like last flight doesn't happen again.
>
> Be sure to hit the E-Mail lists again BIG just before the launch a day
> or two so we know exactly when it's going.
>
> Do you care to tell how you are calculating your burst altitude? Just
> curious.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/11/2010 9:25 AM, k6rpt wrote:
> > CNSP is planning flight K6RPT-16, that will be a high altitude attempt.
> >
> > APRS Tracking system is being put together with an estimated payload weight of 5 oz.
> >
> > 3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06 lbs, Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude 137K
> >
> > The target launch date is October 2010.
> >
> > http://www.CaliforniaNearSpaceProject.com

> >
> > -Ron K6RPT
> >
> >
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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8437. Re: [GPSL] Re: CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 16:26:04 UTC
From: Joe
Topic: 8432 Message: 8437
Attachments: 1 described; binary payloads are missing from this source WARC

Cool. I just ran my numbers and for the "Lottery" if you fill it as
you say, and the balloon has n defects, I calculate 132 K feet.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 11:13 AM, k6rpt wrote:
> Hi Joe,
>
> We are just using Liftwin and I'm sure we will not get too that altitude.
>
> We feel with the sharp decrease in the ascend rate, the last flight must have had a
pinhole.
>
> The last flight had an average ascend rate of 800 fpm so we dropped our free lift to 1 lb
and reduced the weight of the APRS tracker to 5 oz (maybe under 5 oz, still testing), the
fill will be reduced by 15 cubic feet.
>
> We are open to any comments or suggestions.
>
> -Ron K6RPT
>
>
> --- In GPSL@yahoogroups.com, Joe<nss@...> wrote:
>> Morning Ron,
>>
>> Will be watching with excitement again. I hope you the best, and we all
>> hope something like last flight doesn't happen again.
>>
>> Be sure to hit the E-Mail lists again BIG just before the launch a day
>> or two so we know exactly when it's going.
>>
>> Do you care to tell how you are calculating your burst altitude? Just
>> curious.
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com

>>
>> On 9/11/2010 9:25 AM, k6rpt wrote:
>>> CNSP is planning flight K6RPT-16, that will be a high altitude attempt.
>>>
>>> APRS Tracking system is being put together with an estimated payload weight of 5 oz.
>>>
>>> 3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06 lbs,
Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude 137K
>>>
>>> The target launch date is October 2010.
>>>
>>> http://www.CaliforniaNearSpaceProject.com
>>>
>>> -Ron K6RPT
>>>
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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>
> Yahoo! Groups Links
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8438. Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 17:02:58 UTC
From: Mark Conner
Topic: 8434 Message: 8438

Basically, you can't directly format cards larger than 4 Gb and have them work for CHDK. I believe it needs to be a FAT16 filesystem and 4 Gb is as big as you can go.

Others have gotten around this by putting two partitions on the card - a small FAT16 one for the CHDK stuff and FAT32 for the pictures. Try a Google search on "FAT16 FAT32 CHDK" to see if you can get a detailed how-to.

I was going to do that, then decided I'd just live with 4 Gb of pix per flight.

73 de Mark N9XTN

On Sat, Sep 11, 2010 at 10:24, HarryM <hhm_74115@...> wrote:

>
>
>
> Formatting large BOOT SD cards for CHDK
>
> Does anyone have a proceedure to format larger than 4gb SD cards to boot
> for use with CHDK? I have tried every instruction on the Web that I could
> find and none will work. I have used CardTricks, HDhacker & HXD with no
> results. The camera I'm using is an SX-200is. I can get cards up to 4gb to
> boot just fine.
>
> Harry KC5TRB
>
>
>
>

8439. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 17:26:38 UTC
From: Joe
Topic: 8434 Message: 8439
Attachments: 1 described; binary payloads are missing from this source WARC

Now this IS interesting, hmmmm?

Now when is this formatting to happen? Is the Camera doing to
formatting? Or on your computer with a SD Card Reader?

I know I can with the SD Card reader format the 16 Gig card with no
problems at all.

But the next question is, does the camera do another formatting? I
don't remember seeing this happen if it did.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 12:02 PM, Mark Conner wrote:
>
>
> Basically, you can't directly format cards larger than 4 Gb and have
> them work for CHDK. I believe it needs to be a FAT16 filesystem and 4
> Gb is as big as you can go.
>
> Others have gotten around this by putting two partitions on the card -
> a small FAT16 one for the CHDK stuff and FAT32 for the pictures. Try
> a Google search on "FAT16 FAT32 CHDK" to see if you can get a detailed
> how-to.
>
> I was going to do that, then decided I'd just live with 4 Gb of pix
> per flight.
>
> 73 de Mark N9XTN
>
> On Sat, Sep 11, 2010 at 10:24, HarryM <hhm_74115@...
> <mailto:hhm_74115@...>> wrote:
>
>
>
>
> Formatting large BOOT SD cards for CHDK
> Does anyone have a proceedure to format larger than 4gb SD cards
> to boot for use with CHDK? I have tried every instruction on the
> Web that I could find and none will work. I have used CardTricks,
> HDhacker & HXD with no results. The camera I'm using is an

> SX-200is. I can get cards up to 4gb to boot just fine.
> Harry KC5TRB
>
>
>
>
>
>

8440. Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 17:45:08 UTC
From: HarryM
Topic: 8434 Message: 8440

CANON HACK DEVELOPEMENT KIT
Partition/Format Larger than 4Gb SD Cards with 2 partions.

EUREKA! I HAVE FOUND IT!!!

After spending 12 frustrating hours yesterday I found the answer this am.
I found Web info on creating a dual partion card, but nothing I tried worked.
Here's what I found today that works and is pretty easy!

- Low level format card in camera. Card is now *Gb FAT32.
- Put card in card reader on the PC.
- Goto the SDM (StereoDataMaker) site... http://stereo.jpn.org/eng/sdm/index.htm
- Goto the "Downloads" and get "Common_files.zip"
- In the "Common_files.zip" you will find "sdminste.exe".
- Run "sdminste.exe". This is a pretty simple partioner & formatter.
- Make the 2mb partion BOOTABLE using "sdminste.exe"
- Unpack "SMALL" build of CHDK for your camera to the 2 MB partition using PC.
- Write protect card, camera now boots on card. "Swap partition".
- Unprotect card, card back in PC. Unpack "FULL" CHDK build to FAT32 partition.
- Card back in camera, "Firmware update" start method, "Swap partition".
- Remove card and Lock it. It should boot!

Note - Instead of using "Swap partition" in-camera I used "sdminste.exe"

This worked for me on an 8gb card!

73 Harry KC5TRB

8441. Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 17:55:22 UTC
From: Joe
Topic: 8434 Message: 8441
Attachments: 1 described; binary payloads are missing from this source WARC

What Model is your camera?

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 12:45 PM, HarryM wrote:
>
>
> CANON HACK DEVELOPEMENT KIT
> Partition/Format Larger than 4Gb SD Cards with 2 partions.
> ----------
> EUREKA! I HAVE FOUND IT!!!
> After spending 12 frustrating hours yesterday I found the answer this am.
> I found Web info on creating a dual partion card, but nothing I tried
> worked.
> Here's what I found today that works and is pretty easy!
> - Low level format card in camera. Card is now *Gb FAT32.
> - Put card in card reader on the PC.
> - Goto the SDM (StereoDataMaker) site...
> http://stereo.jpn.org/eng/sdm/index.htm
> - Goto the "Downloads" and get "Common_files.zip"
> - In the "Common_files.zip" you will find "sdminste.exe".
> - Run "sdminste.exe". This is a pretty simple partioner & formatter.
> - Make the 2mb partion BOOTABLE using "sdminste.exe"
> - Unpack "SMALL" build of CHDK for your camera to the 2 MB partition
> using PC.
> - Write protect card, camera now boots on card. "Swap partition".
> - Unprotect card, card back in PC. Unpack "FULL" CHDK build to FAT32
> partition.
> - Card back in camera, "Firmware update" start method, "Swap partition".
> - Remove card and Lock it. It should boot!
> Note - Instead of using "Swap partition" in-camera I used "sdminste.exe"
>
> This worked for me on an 8gb card!
> 73 Harry KC5TRB
>
>
>

8442. Re: [GPSL] Re: CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 17:59:53 UTC
From: Jerry Gable
Topic: 8432 Message: 8442

I haven't done all of the experiments yet but I will throw out my prediction based on a 0.01psi higher pressure in the balloon.

Burst altitude: 135K feet (without delta burst would be around 132K feet).
0 lift: 130K feet
50% lift: 110K feet

So my prediction says that the ascent will be significantly slowing around 110K feet and float around 130K feet.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 11, 2010 9:26:04 AM
Subject: Re: [GPSL] Re: CNSP is planning flight K6RPT-16 (high altitude attempt)

Cool. I just ran my numbers and for the "Lottery" if you fill it as you say, and the balloon has n defects, I calculate 132 K feet.

Joe WB9SBD

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 11:13 AM, k6rpt wrote:
Hi Joe, We are just using Liftwin and I'm sure we will not get too that altitude. We feel with the sharp decrease in the ascend rate, the last flight must have had a pinhole. The last flight had an average ascend rate of 800 fpm so we dropped our free lift to 1 lb and reduced the weight of the APRS tracker to 5 oz (maybe under 5 oz, still testing), the fill will be reduced by 15 cubic feet. We are open to any comments or suggestions. -Ron K6RPT --- In GPSL@yahoogroups.com, Joe <nss@...> wrote:

> Morning Ron, Will be watching with excitement again. I hope you the best,
>and we all hope something like last flight doesn't happen again. Be sure to
>hit the E-Mail lists again BIG just before the launch a day or two so we know
>exactly when it's going. Do you care to tell how you are calculating your burst
>altitude? Just curious. Joe WB9SBD The Original Rolling Ball Clock Idle Tyme
>Idle-Tyme.com http://www.idle-tyme.com On 9/11/2010 9:25 AM, k6rpt wrote:
>
>>CNSP is planning flight K6RPT-16, that will be a high altitude attempt. APRS
>>Tracking system is being put together with an estimated payload weight of 5 oz.
>>3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06

>>lbs, Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude
>>137K The target launch date is October 2010.
>>http://www.CaliforniaNearSpaceProject.com -Ron K6RPT
>>---------- Yahoo! Groups Links
>>

8443. Re: [GPSL] Re: CNSP is planning flight K6RPT-16 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 18:20:25 UTC
From: Joe
Topic: 8432 Message: 8443
Attachments: 1 described; binary payloads are missing from this source WARC

I concur,

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 12:59 PM, Jerry Gable wrote:
>
>
> I haven't done all of the experiments yet but I will throw out my
> prediction based on a 0.01psi higher pressure in the balloon.
>
> Burst altitude: 135K feet (without delta burst would be around 132K feet).
> 0 lift: 130K feet
> 50% lift: 110K feet
>
> So my prediction says that the ascent will be significantly slowing
> around 110K feet and float around 130K feet.
>
>
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 11, 2010 9:26:04 AM
> *Subject:* Re: [GPSL] Re: CNSP is planning flight K6RPT-16 (high
> altitude attempt)
>
> Cool. I just ran my numbers and for the "Lottery" if you fill it as
> you say, and the balloon has n defects, I calculate 132 K feet.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 9/11/2010 11:13 AM, k6rpt wrote:
>> Hi Joe,
>>
>> We are just using Liftwin and I'm sure we will not get too that altitude.

>>
>> We feel with the sharp decrease in the ascend rate, the last flight must have had a pinhole.
>>
>> The last flight had an average ascend rate of 800 fpm so we dropped our free lift to 1 lb and reduced the weight of the APRS tracker to 5 oz (maybe under 5 oz, still testing), the fill will be reduced by 15 cubic feet.
>>
>> We are open to any comments or suggestions.
>>
>> -Ron K6RPT
>>
>>
>> --- InGPSL@yahoogroups.com, Joe<nss@...> wrote:
>>> Morning Ron,
>>>
>>> Will be watching with excitement again. I hope you the best, and we all
>>> hope something like last flight doesn't happen again.
>>>
>>> Be sure to hit the E-Mail lists again BIG just before the launch a day
>>> or two so we know exactly when it's going.
>>>
>>> Do you care to tell how you are calculating your burst altitude? Just
>>> curious.
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 9/11/2010 9:25 AM, k6rpt wrote:
>>>> CNSP is planning flight K6RPT-16, that will be a high altitude attempt.
>>>>
>>>> APRS Tracking system is being put together with an estimated payload weight of 5 oz.
>>>>
>>>> 3000g Balloon, HE, Total Payload .31 lbs, Nozzle Lift 1.37 lbs, Free Lift 1.06 lbs, Time to Burst 3.7 hrs, Ascent Speed 610 to 665 fpm, Estimated Peak Altitude 137K
>>>>
>>>> The target launch date is October 2010.
>>>>
>>>> http://www.CaliforniaNearSpaceProject.com
>>>>
>>>> -Ron K6RPT
>>>>
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8444. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 18:23:52 UTC
From: HarryM
Topic: 8434 Message: 8444

It's an SX200-is.

I just did another 8Gb card and it took me 10 min to get
2 partions, formatted, bootable and CHDK loaded and working.

What Model is your camera?

8445. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 18:41:47 UTC
From: Joe
Topic: 8434 Message: 8445
Attachments: 1 described; binary payloads are missing from this source WARC

Does it do Video?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 1:23 PM, HarryM wrote:
>
>
> It's an SX200-is.
> I just did another 8Gb card and it took me 10 min to get
> 2 partions, formatted, bootable and CHDK loaded and working.
>
> What Model is your camera?
>
>
>
>

8446. SSID Correction K6RPT-15 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 18:43:49 UTC
From: k6rpt
Topic: 8446 Message: 8446

It's been brought to my attention that K6RPT-16 is an invalid packet call sign.

SSID Correction K6RPT-15 (high altitude attempt)

-Ron K6RPT

8447. Balloon Availability?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 18:59:07 UTC
From: Pete Lilja
Topic: 8447 Message: 8447

Has anyone been in recent contact with Paul F. at Kaymont? I've emailed several times in the last month or so inquiring about purchasing some balloons but have heard nothing back.

Thanks,

Pete
KC0GPB

8448. Re: [GPSL] Balloon Availability?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 19:04:44 UTC
From: Mark Conner
Topic: 8447 Message: 8448

I had poor luck years ago by e-mail too. I just call now.

- Mark

On Sat, Sep 11, 2010 at 13:59, Pete Lilja <plilja@...> wrote:

>
>
> Has anyone been in recent contact with Paul F. at Kaymont? I've emailed
> several times in the last month or so inquiring about purchasing some
> balloons but have heard nothing back.
>
> Thanks,
>
> Pete
> KC0GPB
>

8449. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 20:13:26 UTC
From: HarryM
Topic: 8434 Message: 8449

If you mean the SX200, Yes it will do the following...

1280 X 720 HD (30fps) 8Gb - 43 min
640 X 480 SD (30fps) 8Gb - 1 hr 35 min
320 X 240 LD (30fps) 8Gb - 4 hr 50 min

Max clip length = 30 min.
This might be extended in CHDK, but I haven't look at it yet.

Does it do Video?

8450. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 21:30:04 UTC
From: Joe
Topic: 8434 Message: 8450
Attachments: 1 described; binary payloads are missing from this source WARC

why only 30 minutes?

what is causing it to stop on you?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 3:13 PM, HarryM wrote:
>
>
> If you mean the SX200, Yes it will do the following...
> 1280 X 720 HD (30fps) 8Gb - 43 min
> 640 X 480 SD (30fps) 8Gb - 1 hr 35 min
> 320 X 240 LD (30fps) 8Gb - 4 hr 50 min
> Max clip length = 30 min.
> This might be extended in CHDK, but I haven't look at it yet.
>
> Does it do Video?
>
>
>
>

8451. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 22:06:45 UTC
From: HarryM
Topic: 8434 Message: 8451

Those are the specs right from the Canon manual.
Ask Canon!

why only 30 minutes?

what is causing it to stop on you?

8452. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 22:21:37 UTC
From: HarryM
Topic: 8434 Message: 8452

Just did a 16Gb card and everything works well.

The SD card has a 2Mb FAT16 partition and a 15.7Gb FAT32 partition .
The 2Mb one is used only for boot.
CHDK and all data goes on the FAT32 partition.

73 Harry

8453. CHDK - Camera/Servo Control

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 22:36:51 UTC
From: HarryM
Topic: 8453 Message: 8453

Here's a couple of interesting links to
camera/servo control using uBasic, SDM
and a Canon camera.

http://www.gentles.ltd.uk/clickpan/

http://www.zenoshrdlu.com/clickpansdm/

SDM & Others
http://stereo.jpn.org/eng/

8454. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 23:03:15 UTC
From: Joe
Topic: 8434 Message: 8454
Attachments: 1 described; binary payloads are missing from this source WARC

Must be your particular camera then,

Because ours goes to almost 45 minutes.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 5:06 PM, HarryM wrote:
>
>
> Those are the specs right from the Canon manual.
> Ask Canon!
>
>
> why only 30 minutes?
>
> what is causing it to stop on you?
>
>
>
>

8455. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 23:13:14 UTC
From: HarryM
Topic: 8434 Message: 8455

The manual also says the max clip size is 4Gb.

Must be your particular camera then,

8456. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-11 23:25:15 UTC
From: Joe
Topic: 8434 Message: 8456
Attachments: 1 described; binary payloads are missing from this source WARC

Thats the question then,,, what is limiting it to the 4 Gig size? and
is there a way around it?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 6:13 PM, HarryM wrote:
>
>
> The manual also says the max clip size is 4Gb.
>
> Must be your particular camera then,
>
>
>
>

8457. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 00:20:50 UTC
From: Jerry Gable
Topic: 8434 Message: 8457

The problem is the FAT 32 file system. The max file size is 4GB. Below copied from here: http://neuron2.net/LVG/filesize.html

In order to store files on a hard drive, your computer uses a file system. Depending on your operating system, there are many different file systems that you may be using. Here is a table that lists the maximum file sizes for different operating systems and file systems:
  Windows 95
(pre-OSR2) Windows 95 OSR2+,
Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
FAT16 2 GB 2 GB 4 GB 4 GB
FAT32 N/A 4 GB N/A 4 GB
NTFS N/A N/A Nearly unlimited Nearly unlimited

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sat, September 11, 2010 4:25:15 PM
Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Thats the question then,,, what is limiting it to the 4 Gig size? and is there a way around it?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 6:13 PM, HarryM wrote:
The manual also says the max clip size is 4Gb.
>
>
>
>Must be your particular camera then,
>>

8458. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 00:41:03 UTC
From: Joe
Topic: 8434 Message: 8458
Attachments: 1 described; binary payloads are missing from this source WARC

So, OK,

the max a file can be is 4 Gig,

How about what holds the files the SD card itself.?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 7:20 PM, Jerry Gable wrote:
>
>
> The problem is the FAT 32 file system. The max file size is 4GB.
> Below copied from here: http://neuron2.net/LVG/filesize.html
>
> In order to store files on a hard drive, your computer uses a file
> system. Depending on your operating system, there are many different
> file systems that you may be using. Here is a table that lists the
> maximum file sizes for different operating systems and file systems:
>
> Windows 95
> (pre-OSR2) Windows 95 OSR2+,
> Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
> FAT16 _2 GB_ 2 GB 4 GB 4 GB
> FAT32 N/A _4 GB_ N/A 4 GB
> NTFS N/A N/A _Nearly unlimited_ _Nearly unlimited_
>
>
>
> ----------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 11, 2010 4:25:15 PM
> *Subject:* Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>
> Thats the question then,,, what is limiting it to the 4 Gig size? and
> is there a way around it?
>
>
> Joe WB9SBD
>

> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 9/11/2010 6:13 PM, HarryM wrote:
>> The manual also says the max clip size is 4Gb.
>>
>> Must be your particular camera then,
>>
>
>
>

8459. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 00:53:58 UTC
From: Jerry Gable
Topic: 8434 Message: 8459

I don't understand what you are asking. If they follow the fat32 spec it is limited to 4GB. They could create their own file system on the card but then you could only read it on that device.

-----Original Message-----
From: Joe <nss@mwt.net>
Sender: GPSL@yahoogroups.com
Date: Sat, 11 Sep 2010 19:41:03
To: <GPSL@yahoogroups.com>
Reply-To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

So, OK,

the max a file can be is 4 Gig,

How about what holds the files the SD card itself.?

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 7:20 PM, Jerry Gable wrote:
>
>
> The problem is the FAT 32 file system. The max file size is 4GB.
> Below copied from here: http://neuron2.net/LVG/filesize.html
>
> In order to store files on a hard drive, your computer uses a file
> system. Depending on your operating system, there are many different
> file systems that you may be using. Here is a table that lists the
> maximum file sizes for different operating systems and file systems:
>
> Windows 95
> (pre-OSR2) Windows 95 OSR2+,
> Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
> FAT16 _2 GB_ 2 GB 4 GB 4 GB
> FAT32 N/A _4 GB_ N/A 4 GB
> NTFS N/A N/A _Nearly unlimited_ _Nearly unlimited_
>
>
>
> ---
> *From:* Joe <nss@mwt.net>

> *To:* GPSL@yahoogroups.com
> *Sent:* Sat, September 11, 2010 4:25:15 PM
> *Subject:* Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>
> Thats the question then,,, what is limiting it to the 4 Gig size? and
> is there a way around it?
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 9/11/2010 6:13 PM, HarryM wrote:
>> The manual also says the max clip size is 4Gb.
>>
>> Must be your particular camera then,
>>
>
>
>

8460. Re: [GPSL] SSID Correction K6RPT-15 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 02:43:05 UTC
From: Mike Manes
Topic: 8446 Message: 8460

Ron,

The -15 SSID is what a KNode reports for a noded non-SSID call (SSID = 0).
Why not use -11, APRS convention for a balloon?

73 de Mike W5VSI

On 9/11/2010 12:43, k6rpt wrote:
>
> It's been brought to my attention that K6RPT-16 is an invalid packet call sign.
>
> SSID Correction K6RPT-15 (high altitude attempt)
>
> -Ron K6RPT
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8461. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 02:46:53 UTC
From: Mike Manes
Topic: 8434 Message: 8461

Mark Connor told me that the Kodak Zi6 breaks long video records up
into separate 4 Gb files.

73 de Mike W5VSI

On 9/11/2010 17:13, HarryM wrote:
>
>
> The manual also says the max clip size is 4Gb.
>
> Must be your particular camera then,
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8462. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 03:17:05 UTC
From: Joe
Topic: 8434 Message: 8462
Attachments: 1 described; binary payloads are missing from this source WARC

That is what I am trying to understand also.

I have a 16 Gig SD card. that is formatted in FAT 32, I can see it
right now on my computer and it has on it

16,050,585,600 bytes.

see my confusion?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 7:53 PM, Jerry Gable wrote:
> I don't understand what you are asking. If they follow the fat32 spec it is limited to 4GB. They could create their own file system on the card but then you could only read it on that device.
>
> -----Original Message-----
> From: Joe<nss@...>
> Sender: GPSL@yahoogroups.com
> Date: Sat, 11 Sep 2010 19:41:03
> To:<GPSL@yahoogroups.com>
> Reply-To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>
> So, OK,
>
> the max a file can be is 4 Gig,
>
> How about what holds the files the SD card itself.?
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/11/2010 7:20 PM, Jerry Gable wrote:
>>
>> The problem is the FAT 32 file system. The max file size is 4GB.

>> Below copied from here: http://neuron2.net/LVG/filesize.html
>>
>> In order to store files on a hard drive, your computer uses a file
>> system. Depending on your operating system, there are many different
>> file systems that you may be using. Here is a table that lists the
>> maximum file sizes for different operating systems and file systems:
>>
>> Windows 95
>> (pre-OSR2) Windows 95 OSR2+,
>> Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
>> FAT16 _2 GB_ 2 GB 4 GB 4 GB
>> FAT32 N/A _4 GB_ N/A 4 GB
>> NTFS N/A N/A _Nearly unlimited_ _Nearly unlimited_
>>
>>
>>
>> ---
>> *From:* Joe<nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Sat, September 11, 2010 4:25:15 PM
>> *Subject:* Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>>
>> Thats the question then,,, what is limiting it to the 4 Gig size? and
>> is there a way around it?
>>
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com<http://idle-tyme.com/>
>> http://www.idle-tyme.com
>>
>> On 9/11/2010 6:13 PM, HarryM wrote:
>>> The manual also says the max clip size is 4Gb.
>>>
>>> Must be your particular camera then,
>>>
>>
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>

8463. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 03:34:20 UTC
From: Jerry Gable
Topic: 8434 Message: 8463

The card can have more than 4GB total but one file cannot be larger than 4GB. So on your 16GB card you could have 4 - 4GB files. Or you could have a lot of smaller files that add up to 16GB total.

I have a cheap video camera that I fly that closes the current file and opens a new one every 30 minutes. After a flight I end up with 4 or 5 1.3GB files on an 8GB card.

-----Original Message-----
From: Joe <nss@mwt.net>
Sender: GPSL@yahoogroups.com
Date: Sat, 11 Sep 2010 22:17:05
To: <GPSL@yahoogroups.com>
Reply-To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

That is what I am trying to understand also.

I have a 16 Gig SD card. that is formatted in FAT 32, I can see it
right now on my computer and it has on it

16,050,585,600 bytes.

see my confusion?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 7:53 PM, Jerry Gable wrote:
> I don't understand what you are asking. If they follow the fat32 spec it is limited to 4GB. They could create their own file system on the card but then you could only read it on that device.
>
> -----Original Message-----
> From: Joe<nss@mwt.net>
> Sender: GPSL@yahoogroups.com
> Date: Sat, 11 Sep 2010 19:41:03
> To:<GPSL@yahoogroups.com>
> Reply-To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>
> So, OK,
>
> the max a file can be is 4 Gig,

>
> How about what holds the files the SD card itself.?
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/11/2010 7:20 PM, Jerry Gable wrote:
>>
>> The problem is the FAT 32 file system. The max file size is 4GB.
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>>
>> In order to store files on a hard drive, your computer uses a file
>> system. Depending on your operating system, there are many different
>> file systems that you may be using. Here is a table that lists the
>> maximum file sizes for different operating systems and file systems:
>>
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>> (pre-OSR2) Windows 95 OSR2+,
>> Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
>> FAT16 _2 GB_ 2 GB 4 GB 4 GB
>> FAT32 N/A _4 GB_ N/A 4 GB
>> NTFS N/A N/A _Nearly unlimited_ _Nearly unlimited_
>>
>>
>>
>> ---
>> *From:* Joe<nss@mwt.net>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Sat, September 11, 2010 4:25:15 PM
>> *Subject:* Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>>
>> Thats the question then,,, what is limiting it to the 4 Gig size? and
>> is there a way around it?
>>
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com<http://idle-tyme.com/>
>> http://www.idle-tyme.com
>>
>> On 9/11/2010 6:13 PM, HarryM wrote:
>>> The manual also says the max clip size is 4Gb.
>>>
>>> Must be your particular camera then,

>>>
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

8464. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 03:49:26 UTC
From: Joe
Topic: 8434 Message: 8464
Attachments: 1 described; binary payloads are missing from this source WARC

Thank You! thats exactly what I would Like to do with our Canons with CHDK. But havent been able to get a scrip to work yet.

I have scripts that work great when taking pictures.

But need it to like

"Press Shutter Button"

wait 20 min,

"Press Shutter button"

wait 1 Minute

"Press shutter button"

wait 20 min

"Press Shutter button"

and on and on and on till the card is full.

then this awesome camera can be our camera for our ATV video flights.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/11/2010 10:34 PM, Jerry Gable wrote:
> The card can have more than 4GB total but one file cannot be larger than 4GB. So on your 16GB card you could have 4 - 4GB files. Or you could have a lot of smaller files that add up to 16GB total.
>
> I have a cheap video camera that I fly that closes the current file and opens a new one every 30 minutes. After a flight I end up with 4 or 5 1.3GB files on an 8GB card.
>
> -----Original Message-----
> From: Joe<nss@...>
> Sender: GPSL@yahoogroups.com
> Date: Sat, 11 Sep 2010 22:17:05
> To:<GPSL@yahoogroups.com>
> Reply-To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

>
> That is what I am trying to understand also.
>
> I have a 16 Gig SD card. that is formatted in FAT 32, I can see it
> right now on my computer and it has on it
>
> 16,050,585,600 bytes.
>
> see my confusion?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/11/2010 7:53 PM, Jerry Gable wrote:
>> I don't understand what you are asking. If they follow the fat32 spec it is limited to 4GB. They could create their own file system on the card but then you could only read it on that device.
>>
>> -----Original Message-----
>> From: Joe<nss@...>
>> Sender: GPSL@yahoogroups.com
>> Date: Sat, 11 Sep 2010 19:41:03
>> To:<GPSL@yahoogroups.com>
>> Reply-To: GPSL@yahoogroups.com
>> Subject: Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>>
>> So, OK,
>>
>> the max a file can be is 4 Gig,
>>
>> How about what holds the files the SD card itself.?
>>
>> Joe
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 9/11/2010 7:20 PM, Jerry Gable wrote:
>>> The problem is the FAT 32 file system. The max file size is 4GB.
>>> Below copied from here: http://neuron2.net/LVG/filesize.html
>>>
>>> In order to store files on a hard drive, your computer uses a file
>>> system. Depending on your operating system, there are many different
>>> file systems that you may be using. Here is a table that lists the

>>> maximum file sizes for different operating systems and file systems:
>>>
>>> Windows 95
>>> (pre-OSR2) Windows 95 OSR2+,
>>> Windows 98/SE/ME Windows NT 4.0 Windows 2000/XP
>>> FAT16 _2 GB_ 2 GB 4 GB 4 GB
>>> FAT32 N/A _4 GB_ N/A 4 GB
>>> NTFS N/A N/A _Nearly unlimited_ _Nearly unlimited_
>>>
>>>
>>>
>>> ---
>>> *From:* Joe<nss@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Sat, September 11, 2010 4:25:15 PM
>>> *Subject:* Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards
>>>
>>> Thats the question then,,, what is limiting it to the 4 Gig size? and
>>> is there a way around it?
>>>
>>>
>>> Joe WB9SBD
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>>> The Original Rolling Ball Clock
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>>> http://www.idle-tyme.com
>>>
>>> On 9/11/2010 6:13 PM, HarryM wrote:
>>>> The manual also says the max clip size is 4Gb.
>>>>
>>>> Must be your particular camera then,
>>>>
>>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

>
>
>

8465. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 04:53:33 UTC
From: HarryM
Topic: 8434 Message: 8465

Joe, here's a simple script that does what you want.
Change the sleep values to something in the second range
instead of minutes for initial testing. The values are
in 1000ths of a sec, so 1000 = 1 sec.

It loops until the batteries die!

73 Harry KC5TRB

```
rem KC5TRB script - take a pic after 20 min, wait 1 min, take another pic, etc.

@title TRB 20-1

:top

sleep 1200000 rem Wait for 20 min

press "shoot_half" rem Press shutter button halfway to get focus
sleep 3000 rem Wait 3 sec
press "shoot_full" rem Press shutter button all the way to take pic
release "shoot_full" rem Unpress the shutter button

sleep 60000 rem Wait for 1 min

press "shoot_half" rem Press shutter button halfway to get focus
sleep 3000 rem Wait 3 sec
press "shoot_full" rem Press shutter button all the way to take pic
release "shoot_full" rem Unpress the shutter button

goto "top" rem Do it again from TOP
```

8466. Re: [GPSL] Re: [KNSP] CHDK - Formatting Large SD Cards

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 05:01:42 UTC
From: HarryM
Topic: 8434 Message: 8466
Attachments: 1 described; binary payloads are missing from this source WARC

I forgot to attach the "TRB 20-1.bas" file.
Here it is. I also sent it direct in case
the forum strips it.

73 Harry

8467. Re: [GPSL] Balloon Availability?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 05:56:31 UTC
From: wb8elk@aol.com
Topic: 8447 Message: 8467

Pete....best to call him on the phone and keep trying....last time I called he was out of 1500 gram balloons until October...but that may have changed.

- Bill

Also the 600 gram balloons that are currently on eBay for $20 each are excellent quality and appear to be only a year old. I'll do a seperate posting on this to the list.

-----Original Message-----
From: Pete Lilja <plilja@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Sat, Sep 11, 2010 1:59 pm
Subject: [GPSL] Balloon Availability?

Has anyone been in recent contact with Paul F. at Kaymont? I've emailed several times in the last month or so inquiring about purchasing some balloons but have heard nothing back.

Thanks,

Pete
KC0GPB

8468. eBay balloons for $20

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 06:05:52 UTC
From: wb8elk@aol.com
Topic: 8468 Message: 8468

I bought a bunch of these at $20 each....they are Kaymont 600 gram balloons from Navy surplus and seem to be pretty new stock....maybe only a year or two old....they are packaged in plastic wrap and then individually boxed.

I've flown four of them now and they work great......my last flight was a 6 ounce GPS tracker with 1 pound of lift on the nozzle. It went up over 103,600 feet which is quite high for such a small balloon. With 9 pounds of lift I made it to 93,000 feet back in August with one of these....13 pounds of lift made it to 77,000 feet.

- Bill WB8ELK

8469. Re: SSID Correction K6RPT-11 (high altitude attempt)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-12 07:14:17 UTC
From: k6rpt
Topic: 8446 Message: 8469

Ok Mike, -11 it is.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Ron,
>
> The -15 SSID is what a KNode reports for a noded non-SSID call (SSID = 0).
> Why not use -11, APRS convention for a balloon?
>
> 73 de Mike W5VSI
>
> On 9/11/2010 12:43, k6rpt wrote:
> >
> > It's been brought to my attention that K6RPT-16 is an invalid packet call sign.
> >
> > SSID Correction K6RPT-15 (high altitude attempt)
> >
> > -Ron K6RPT
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

8470. Static Pressure test on 100G balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 00:13:25 UTC
From: Jerry Gable
Topic: 8470 Message: 8470
Attachments: 1 described; binary payloads are missing from this source WARC

I have my differential pressure transducers, 100G balloons, and a way to measure the balloon diameter so I did my burst test on a 100G balloon today.

I have attached the graph but here it is if it doesn't make it:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/100G%20Balloon%20Graph.jpg

And here is the spreadsheet:
http://dl.dropbox.com/u/9446302/BalloonBurstTest1/Balloon_1_100G.xlsx

My setup to measure the diameter was 2 laser pointers and a digital protractor. Point the 2 laser pointers at the outer edge of the balloon from a known distance, add some simple math and you have the volume. My fill rate was constant (After the initial pause at the beginning) and the measurements look like they were surprisingly close.

As you can see this one started with a high pressure that dropped quickly followed by a slow decline. At the end it started back up slightly but the pressure was pretty flat for most of the time at just under 0.03PSI.

I am still looking for a building to do the 600G balloon in. If you know of a place around Phoenix let me know.

Jerry

8471. Re: [GPSL] Static Pressure test on 100G balloon [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 02:13:08 UTC
From: Joe
Topic: 8470 Message: 8471
Attachments: 1 described; binary payloads are missing from this source WARC

Pretty cool,

My Calculations came in awful close..

/*Let me go out on a Limb here, and make these guesses and predictions
of what the pressures will be. This will be fun.

The 100 Gram my guess of bursting pressure is..... 0.0311 PSI

Not too bad,,,

Joe WB9SBD
*/

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/12/2010 7:13 PM, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> I have my differential pressure transducers, 100G balloons, and a way
> to measure the balloon diameter so I did my burst test on a 100G
> balloon today.
>
> I have attached the graph but here it is if it doesn't make it:
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> My setup to measure the diameter was 2 laser pointers and a digital
> protractor. Point the 2 laser pointers at the outer edge of the
> balloon from a known distance, add some simple math and you have the
> volume. My fill rate was constant (After the initial pause at the
> beginning) and the measurements look like they were surprisingly close.
>
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> quickly followed by a slow decline. At the end it started back up
> slightly but the pressure was pretty flat for most of the time at just
> under 0.03PSI.
>
> I am still looking for a building to do the 600G balloon in. If you
> know of a place around Phoenix let me know.
>

> Jerry
>
>
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/248769468/item/686150683/view>
> 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/248769468/item/686150683/view>
>
>

8472. Re: [GPSL] Static Pressure test on 100G balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 15:16:25 UTC
From: Jerry Gable
Topic: 8470 Message: 8472

Joe,
Your calculation was very close. So what is your formula for the different balloon sizes?

One thing that I will point out thought is we all thought the pressure would rise significantly as we approached burst and that doesn't appear to happen.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Jerry Gable <jerrygable@...>
Sent: Sun, September 12, 2010 7:13:08 PM
Subject: Re: [GPSL] Static Pressure test on 100G balloon

Pretty cool,

My Calculations came in awful close..

Let me go out on a Limb here, and make these guesses and predictions of what the pressures will be. This will be fun.

The 100 Gram my guess of bursting pressure is..... 0.0311 PSI

Not too bad,,,

Joe WB9SBD

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Idle Tyme
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>balloon from a known distance, add some simple math and you have the
>volume. My fill rate was constant (After the initial pause at the
>beginning) and the measurements look like they were surprisingly
>close.
>
>As you can see this one started with a high pressure that dropped
>quickly followed by a slow decline. At the end it started back up
>slightly but the pressure was pretty flat for most of the time at just
>under 0.03PSI.
>
>I am still looking for a building to do the 600G balloon in. If you
>know of a place around Phoenix let me know.
>
>Jerry
>
>
>

8473. Re: [GPSL] Static Pressure test on 100G balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 17:59:28 UTC
From: Joe
Topic: 8470 Message: 8473
Attachments: 1 described; binary payloads are missing from this source WARC

I think the reason that diddn't happen was because of the small size
of the balloon. I suspect that the effect will be more pronounced as
you get larger and larger.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/13/2010 10:16 AM, Jerry Gable wrote:
>
>
> Joe,
> Your calculation was very close. So what is your formula for the
> different balloon sizes?
>
> One thing that I will point out thought is we all thought the pressure
> would rise significantly as we approached burst and that doesn't
> appear to happen.
>
> Jerry
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Jerry Gable <jerrygable@...>
> *Sent:* Sun, September 12, 2010 7:13:08 PM
> *Subject:* Re: [GPSL] Static Pressure test on 100G balloon
>
> Pretty cool,
>
> My Calculations came in awful close..
>
> /*Let me go out on a Limb here, and make these guesses and predictions
> of what the pressures will be. This will be fun.
>
> The 100 Gram my guess of bursting pressure is..... 0.0311 PSI
>
> Not too bad,,,
>
> Joe WB9SBD
> */
>
> The Original Rolling Ball Clock

> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
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>> quickly followed by a slow decline. At the end it started back up
>> slightly but the pressure was pretty flat for most of the time at
>> just under 0.03PSI.
>>
>> I am still looking for a building to do the 600G balloon in. If you
>> know of a place around Phoenix let me know.
>>
>> Jerry
>>
>>
>
>
>

8474. Film on Corona

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 18:34:27 UTC
From: L. Paul Verhage
Topic: 8474 Message: 8474

I'm reading about the Corona spy sats. They initially used the same photographic film that was used in the spy balloon flights over the USSR. They discovered after several flights that the film broke a part into fragments iin space, but was fine at 80,000 feet. The outgassing in the hard vacuum of space was significant, but not an issue in near space.

--
Onwards and Upwards,
Paul

8475. Re: [GPSL] Static Pressure test on 100G balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-13 21:22:04 UTC
From: Michael Willett
Topic: 8470 Message: 8475
Attachments: 1 described; binary payloads are missing from this source WARC

I would agree Joe. I also will add the temperature, possibly inflation rate and other factors are not being re-created on the ground.

We do have two separate data sources that do show the increase in pressure prior to burst on the 1200gr balloon, so we know the constant decrease, lull and increase in pressure are valid. I have several 600gr balloons to fly this fall and wondered if we would see the same effect as the 1200gr balloons. The graph by Jerry points out that this phenomenon with the 1200gr balloons may become much less with smaller balloons to the point of no-existing with the 100gr balloons. I suppose we will fly one in non-venting mode to plot the pressure to a typical burst flight.

--Michael
K5NOT

On 9/13/2010 12:59 PM, Joe wrote:
> I think the reason that diddn't happen was because of the small size
> of the balloon. I suspect that the effect will be more pronounced as
> you get larger and larger.
>
> Joe
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
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>
> On 9/13/2010 10:16 AM, Jerry Gable wrote:
>> Joe,
>> Your calculation was very close. So what is your formula for the
>> different balloon sizes?
>>
>> One thing that I will point out thought is we all thought the
>> pressure would rise significantly as we approached burst and that
>> doesn't appear to happen.
>>
>> Jerry
>> ---
>> *From:* Joe <nss@...>
>> *To:* GPSL@yahoogroups.com
>> *Cc:* Jerry Gable <jerrygable@...>
>> *Sent:* Sun, September 12, 2010 7:13:08 PM
>> *Subject:* Re: [GPSL] Static Pressure test on 100G balloon
>>

>> Pretty cool,
>>
>> My Calculations came in awful close..
>>
>> /*Let me go out on a Limb here, and make these guesses and
>> predictions of what the pressures will be. This will be fun.
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>> The 100 Gram my guess of bursting pressure is..... 0.0311 PSI
>>
>> Not too bad,,,
>>
>> Joe WB9SBD
>> */
>>
>> The Original Rolling Ball Clock
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>>
>> On 9/12/2010 7:13 PM, Jerry Gable wrote:
>>> I have my differential pressure transducers, 100G balloons, and a
>>> way to measure the balloon diameter so I did my burst test on a 100G
>>> balloon today.
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>>> And here is the spreadsheet:
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>>> My setup to measure the diameter was 2 laser pointers and a digital
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>>> balloon from a known distance, add some simple math and you have the
>>> volume. My fill rate was constant (After the initial pause at the
>>> beginning) and the measurements look like they were surprisingly close.
>>>
>>> As you can see this one started with a high pressure that dropped
>>> quickly followed by a slow decline. At the end it started back up
>>> slightly but the pressure was pretty flat for most of the time at
>>> just under 0.03PSI.
>>>
>>> I am still looking for a building to do the 600G balloon in. If you
>>> know of a place around Phoenix let me know.
>>>
>>> Jerry
>>>
>>>

8476. CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 02:26:26 UTC
From: HarryM
Topic: 8476 Message: 8476

I have found a little quirk in CHDK
scripting that will error & halt a script.

You cannot put a REM after a PRINT statement.
The REM has to be on a seperate line.

Anyone know of any other quirks?

73 Harry KC5TRB

8477. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 03:09:09 UTC
From: Joe
Topic: 8476 Message: 8477
Attachments: 1 described; binary payloads are missing from this source WARC

ahhh,

that might be a problem i was also having after modifying some timings I
was "Labeling" what the line was doing,

Like

sleep 10000 rem whatever it does

Maybe this is why they diddn't work hmmmm?

Joe

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Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/13/2010 9:26 PM, HarryM wrote:
>
>
> I have found a little quirk in CHDK
> scripting that will error & halt a script.
> You cannot put a REM after a PRINT statement.
> The REM has to be on a seperate line.
> Anyone know of any other quirks?
> 73 Harry KC5TRB
>
>
>

8478. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 03:14:32 UTC
From: HarryM
Topic: 8476 Message: 8478

Works fine on "SLEEP" lines!
I've only found it to be true for the "PRINT" command line.
I've had no problem on any other line yet.

ahhh,
that might be a problem i was also having after modifying some timings I was "Labeling" what the line was doing,
Like
sleep 10000 rem whatever it does
Maybe this is why they diddn't work hmmmm?

8479. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 03:27:51 UTC
From: Joe
Topic: 8476 Message: 8479
Attachments: 1 described; binary payloads are missing from this source WARC

Ok, Bummer

The real simple one we got working the one with the top command?

Havent quite figured out why tho it runs backwards regardless of what order the time is in. if there is 10000 and then 5000 it still only records 5 sec and pauses ten, I swither the numbers around and it still records 5 and pauses ten.

I have had the other scripts do a full 30 minute recording, but not loop back.

I'll get this eventually. I may wear out the usb jack in the process tho he he he

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/13/2010 10:14 PM, HarryM wrote:
>
>
> Works fine on "SLEEP" lines!
> I've only found it to be true for the "PRINT" command line.
> I've had no problem on any other line yet.
>
> ahhh,
> that might be a problem i was also having after modifying some
> timings I was "Labeling" what the line was doing,
> Like
> sleep 10000 rem whatever it does
> Maybe this is why they diddn't work hmmmm?
>
>
>
>

8480. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 12:57:39 UTC
From: HarryM
Topic: 8476 Message: 8480

Joe,

Get the program UBDebug!
Run & debug your scripts without loading them on the camera.
I posted the link for Paul, but haven't heard if he used it or not.
It's a real time saver!

http://www.zenoshrdlu.com/kapstuff/zubdb.html

8481. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 13:13:16 UTC
From: HarryM
Topic: 8476 Message: 8481

I don't understand how the scripts can run
backward and not accept changes in parameters.

Make sure you're using the latest build of CHDK for your camera.

> Havent quite figured out why tho it runs backwards...

8482. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 13:26:45 UTC
From: L. Paul Verhage
Topic: 8476 Message: 8482

Awesome. I just wrote that a debugger would be a great addition. I'll download and see what it's like.

Paul

On Tue, Sep 14, 2010 at 7:57 AM, HarryM <hhm_74115@...> wrote:

>
>
> Joe,
>
> Get the program UBDebug!
> Run & debug your scripts without loading them on the camera.
> I posted the link for Paul, but haven't heard if he used it or not.
> It's a real time saver!
>
> http://www.zenoshrdlu.com/kapstuff/zubdb.html
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

8483. Re: Excel

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 14:01:31 UTC
From: Joe
Topic: 8483 Message: 8483
Attachments: 1 described; binary payloads are missing from this source WARC

Oops Missed that!

I had help with that math, But this is what came out of it.

t = 1 mil = 1/1000 of an inch. Is that what you mean?

1/1000" = 0.0254 mm

Assuming D is 13m after pressurizing

P_y = 4 * 0.0254 * 16.6/13000 = 0.00013MPa or 0.13kPa or 0.019psi

If it is 1/4 mil, P_y is 0.0325kPa or 0.0047 psi

Now this is where I needed a more accurate gauge thickness measurement,
Remember I asked on the list if someone could get a as accurate as
possible micrometer measurement of a piece of balloon when stretched to
it's limit?

I lost this number, I did have it at one time when we ran the tests on
the machine to get the balloons tensile strength number. which a few
years ago came in as
Tensile Strength of the material that is the skin of the sphere, = 16.6 Mpa

Now as can be seen if the envelope is thicker or thinner than 1/4 mil at
burst it will change the pressure number. I in the back of my mind
remember 1/4 mil as being this number.

Soooo,, Now for the varying sizes, the numbers were crunched above for
the 3000 gram balloon, the other sizes the failure pressure for a 9.44m
diameter sphere will be 1.38 times higher than that of a 13m sphere.

Then someone sent me this below,,,,,, wow Looks like Greek!

Total force on shell = P*A = P*?D^2 /4

Length of shell resisting force = ?*D

Force per unit length of shell = P*D/4

Failure strength per unit length = t*F_y

Pressure at yield, P_y = 4*t*F_y /D

t = thickness of shell

Fy = yield strength

D = diameter

Joe WB9SBD

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On 9/14/2010 1:06 AM, Hank Riley wrote:
> Joe,
>
> You were asked a question Monday morning and I haven't seen an answer
> from you yet:
>
>
> Joe,
> Your calculation was very close. So what is your formula for
> the different balloon sizes?
>
>
> Hank
>
>
>
>
>
>

8484. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:20:06 UTC
From: Joe
Topic: 8476 Message: 8484
Attachments: 1 described; binary payloads are missing from this source WARC

Something as simple as this file even works, but it works backwards,
the record is 5 seconds and the pause between is 10,

UG?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
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On 9/14/2010 7:57 AM, HarryM wrote:
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> I posted the link for Paul, but haven't heard if he used it or not.
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>
>
>

8485. Re: [GPSL] Re: Excel

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:25:00 UTC
From: Jerry Gable
Topic: 8483 Message: 8485

I'll have to study Joe's formulas and see if I can figure them out. It looks like they are related to the formula that I found.

I did come across this formula for the pressure in a bubble. P=4*gamma/R where P=pressure, R is the radius and gamma is the strength of the skin.

If you use the numbers in my 100G spreadsheet and extract the gamma for one point and then use that gamma on the rest of the points it is surprising how close the curve fits the measured, from the initial peak pressure all the way down to where the curve turns up.

What that tells me is this formula holds for balloons as well as bubbles. The exception is when you approach the maximum stretch of the latex the "gamma" increases.

In Joe's Formula, the gamma is "thickness * Yield strength". It uses D instead of R but that is just a scaling issue with gamma.

Now assuming that all balloons have the same latex properties (thickness, stretch, etc) we should be able to predict the internal pressure pretty accurately using this and Joe's formulas below. I just want to try another size to see if it correlates. I also want to do more 100G balloons to test the consistency.

One thing that I would like to predict is the larger balloons will not have a big low pressure region in the middle. I believe as the balloons get larger the upturn at the end will get smaller. But I have been wrong before.

From: Joe <nss@...>
To: Hank Riley <n1ltv@...>; gpsl <GPSL@yahoogroups.com>
Sent: Tue, September 14, 2010 7:01:31 AM
Subject: [GPSL] Re: Excel

Oops Missed that!

I had help with that math, But this is what came out of it.

t = 1 mil = 1/1000 of an inch. Is that what you mean?
1/1000" = 0.0254 mm
Assuming D is 13m after pressurizing
Py = 4 * 0.0254 * 16.6/13000 = 0.00013MPa or 0.13kPa or 0.019psi
If it is 1/4 mil, Py is 0.0325kPa or 0.0047 psi

Now this is where I needed a more accurate gauge thickness measurement, Remember I asked on the list if someone could get a as accurate as possible micrometer measurement of a piece of balloon when stretched to it's limit?

I lost this number, I did have it at one time when we ran the tests on the machine to get the balloons tensile strength number. which a few years ago came in as
Tensile Strength of the material that is the skin of the sphere, = 16.6 Mpa

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Then someone sent me this below,,,,,, wow Looks like Greek!

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Length of shell resisting force = π*D
Force per unit length of shell = P*D/4
Failure strength per unit length = t*Fy
Pressure at yield, Py = 4*t*Fy/D
t = thickness of shell
Fy = yield strength
D = diameter
Joe WB9SBD

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On 9/14/2010 1:06 AM, Hank Riley wrote:
Joe, You were asked a question Monday morning and I haven't seen an answer from you yet: Joe, Your calculation was very close. So what is your formula for the different balloon sizes? Hank

8486. Re: [GPSL] CHDK - REM Quirk [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:32:14 UTC
From: HarryM
Topic: 8486 Message: 8486

```
Worked fine in the debugger!
Records for 10sec then pauses for 5 sec

11 lines loaded
starting ...
*** button press 'shoot_full' ***
*** button release 'shoot_full' ***
*** sleeping for 10000 ms ... awake again! ***
*** button press 'shoot_full' ***
*** button release 'shoot_full' ***
*** sleeping for 5000 ms ... awake again! ***
*** button press 'shoot_full' ***
*** button release 'shoot_full' ***
*** sleeping for 10000 ms ... awake again! ***
*** button press 'shoot_full' ***
*** button release 'shoot_full' ***
Script has ended!

Something as simple as this file even works, but it works backwards, the record is 5
seconds and the pause between is 10,
```

8487. Re: [GPSL] Re: Excel

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:33:06 UTC
From: Joe
Topic: 8483 Message: 8487

Morning All,

You say,

"One thing that I would like to predict is the larger balloons will not have a big low pressure region in the middle. I believe as the balloons get larger the upturn at the end will get smaller. But I have been wrong before."

I have to find it someplace. I got it here, but can't find it at the moment, But Rodger Farley has some numbers from some GIANT PE balloons Like 1 million cu meters and stuff like that and he stated that there IS a pressure difference inside the balloon envelope, but it is soo small, that it cal almost be ignores a value like 6 Pa is all that he says.

Joe WB9SBD

>
>
> I'll have to study Joe's formulas and see if I can figure them out.
> It looks like they are related to the formula that I found.
>
> I did come across this formula for the pressure in a bubble.
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> (thickness, stretch, etc) we should be able to predict the internal
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> do more 100G balloons to test the consistency.
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> balloons get larger the upturn at the end will get smaller. But I
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> ---
> *From:* Joe <nss@...>
> *To:* Hank Riley <n1ltv@...>; gpsl <GPSL@yahoogroups.com>
> *Sent:* Tue, September 14, 2010 7:01:31 AM
> *Subject:* [GPSL] Re: Excel
>
> Oops Missed that!
>
> I had help with that math, But this is what came out of it.
>
> t = 1 mil = 1/1000 of an inch. Is that what you mean?
>
> 1/1000" = 0.0254 mm
>
> Assuming D is 13m after pressurizing
>
> P_y = 4 * 0.0254 * 16.6/13000 = 0.00013MPa or 0.13kPa or 0.019psi
>
> If it is 1/4 mil, P_y is 0.0325kPa or 0.0047 psi
>
> Now this is where I needed a more accurate gauge thickness
> measurement, Remember I asked on the list if someone could get a as
> accurate as possible micrometer measurement of a piece of balloon when
> stretched to it's limit?
>
> I lost this number, I did have it at one time when we ran the tests on
> the machine to get the balloons tensile strength number. which a few
> years ago came in as
> Tensile Strength of the material that is the skin of the sphere, =
> 16.6 Mpa
>
> Now as can be seen if the envelope is thicker or thinner than 1/4 mil
> at burst it will change the pressure number. I in the back of my mind
> remember 1/4 mil as being this number.
>
> Soooo,, Now for the varying sizes, the numbers were crunched above
> for the 3000 gram balloon, the other sizes the failure pressure for a
> 9.44m diameter sphere will be 1.38 times higher than that of a 13m sphere.
>
> Then someone sent me this below,,,,,, wow Looks like Greek!
>
> Total force on shell = P*A = P*πD^2 /4
>
> Length of shell resisting force = π*D
>
> Force per unit length of shell = P*D/4

>
> Failure strength per unit length = t*F_y
>
> Pressure at yield, P_y = 4*t*F_y /D
>
> t = thickness of shell
>
> Fy = yield strength
>
> D = diameter
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 9/14/2010 1:06 AM, Hank Riley wrote:
>> Joe,
>>
>> You were asked a question Monday morning and I haven't seen an answer
>> from you yet:
>>
>>
>> Joe,
>> Your calculation was very close. So what is your formula for
>> the different balloon sizes?
>>
>>
>> Hank
>>
>>
>>
>>
>>
>>
>>
>
>
>

8488. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:35:33 UTC
From: Joe
Topic: 8486 Message: 8488
Attachments: 1 described; binary payloads are missing from this source WARC

isn't this crazy!

What camera do you have?

I installed the latest and greatest CHDK stuff. No difference.

Anyone else with a A560 care to try these scripts and see if it works
the right way for you?

Remember these are NOT pictures, the camera is in Video mode.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 10:32 AM, HarryM wrote:
>
>
> Worked fine in the debugger!
> Records for 10sec then pauses for 5 sec
> 11 lines loaded
> starting ...
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 10000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 5000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 10000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> Script has ended!
>
> Something as simple as this file even works, but it works
> backwards, the record is 5 seconds and the pause between is 10,
>
>
>
>

8489. Re: [GPSL] CHDK - REM Quirk [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:37:59 UTC
From: L. Paul Verhage
Topic: 8476 Message: 8489
Attachments: 1 described; binary payloads are missing from this source WARC

Maybe I missed it, but why the press and release command?

```
press "shoot_full"
release "shoot_full"
sleep 10000
```

I think most times scripts use the _shoot_ command. The press is good when the button has to be held down while other buttons are pushed. After the press command, you have to use the release command to "take your finger off the button".

Paul

On Tue, Sep 14, 2010 at 10:20 AM, Joe <nss@...> wrote:

> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html#12b10d51855213d6_TopText>from Joe included below]
>
> Something as simple as this file even works, but it works backwards, the
> record is 5 seconds and the pause between is 10,
>
> UG?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/14/2010 7:57 AM, HarryM wrote:
>
> Joe,
>
> Get the program UBDebug!
> Run & debug your scripts without loading them on the camera.
> I posted the link for Paul, but haven't heard if he used it or not.
> It's a real time saver!
>
> http://www.zenoshrdlu.com/kapstuff/zubdb.html
>
>
>
>
> Attachment(s) from Joe

>
> 1 of 1 File(s)
> 2.bas <http://xa.yimg.com/kq/groups/6764416/1133413083/name/2.bas>
>
>

--
Onwards and Upwards,
Paul

8490. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:39:14 UTC
From: L. Paul Verhage
Topic: 8486 Message: 8490
Attachments: 1 described; binary payloads are missing from this source WARC

Okay, it's for video. I was wondering if I had missed something.

Thanks,
Paul

On Tue, Sep 14, 2010 at 10:35 AM, Joe <nss@...> wrote:

> isn't this crazy!
>
> What camera do you have?
>
> I installed the latest and greatest CHDK stuff. No difference.
>
> Anyone else with a A560 care to try these scripts and see if it works the
> right way for you?
>
> Remember these are NOT pictures, the camera is in Video mode.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/14/2010 10:32 AM, HarryM wrote:
>
> Worked fine in the debugger!
> Records for 10sec then pauses for 5 sec
>
> 11 lines loaded
> starting ...
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 10000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 5000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> *** sleeping for 10000 ms ... awake again! ***
> *** button press 'shoot_full' ***
> *** button release 'shoot_full' ***
> Script has ended!
>

>
>
> Something as simple as this file even works, but it works backwards,
> the record is 5 seconds and the pause between is 10,
>
>

--
Onwards and Upwards,
Paul

8491. Re: [GPSL] Re: Excel

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:40:56 UTC
From: Jerry Gable
Topic: 8483 Message: 8491

Joe,
By pressure in the middle, I meant the pressure curve during inflation, not the middle of the balloon.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Jerry Gable <jerrygable@...>
Sent: Tue, September 14, 2010 8:33:06 AM
Subject: Re: [GPSL] Re: Excel

Morning All,

You say,

"One thing that I would like to predict is the larger balloons will not have a big low pressure region in the middle. I believe as the balloons get larger the upturn at the end will get smaller. But I have been wrong before."

I have to find it someplace. I got it here, but can't find it at the moment, But Rodger Farley has some numbers from some GIANT PE balloons Like 1 million cu meters and stuff like that and he stated that there IS a pressure difference inside the balloon envelope, but it is soo small, that it cal almost be ignores a value like 6 Pa is all that he says.

Joe WB9SBD

>
>
>I'll have to study Joe's formulas and see if I can figure them out.
>It looks like they are related to the formula that I found.
>
>I did come across this formula for the pressure in a bubble.
>P=4*gamma/R where P=pressure, R is the radius and gamma is the
>strength of the skin.
>
>If you use the numbers in my 100G spreadsheet and extract the gamma
>for one point and then use that gamma on the rest of the points it is
>surprising how close the curve fits the measured, from the initial
>peak pressure all the way down to where the curve turns up.
>
>What that tells me is this formula holds for balloons as well as
>bubbles. The exception is when you approach the maximum stretch of
>the latex the "gamma" increases.

>
>In Joe's Formula, the gamma is "thickness * Yield strength". It uses
>D instead of R but that is just a scaling issue with gamma.
>
>Now assuming that all balloons have the same latex properties
>(thickness, stretch, etc) we should be able to predict the internal
>pressure pretty accurately using this and Joe's formulas below. I
>just want to try another size to see if it correlates. I also want to
>do more 100G balloons to test the consistency.
>
>One thing that I would like to predict is the larger balloons will not
>have a big low pressure region in the middle. I believe as the
>balloons get larger the upturn at the end will get smaller. But I
>have been wrong before.
>
>
>
>

From: Joe <nss@...>
>To: Hank Riley <n1ltv@...>; gpsl <GPSL@yahoogroups.com>
>Sent: Tue, September 14, 2010 7:01:31 AM
>Subject: [GPSL] Re: Excel
>
> Oops Missed that!
>
>I had help with that math, But this is what came out of it.
>
>
>t = 1 mil = 1/1000 of an inch. Is that what you mean?
>1/1000" = 0.0254 mm
>Assuming D is 13m after pressurizing
>Py = 4 * 0.0254 * 16.6/13000 = 0.00013MPa or 0.13kPa or 0.019psi
>If it is 1/4 mil, Py is 0.0325kPa or 0.0047 psi
>
>Now this is where I needed a more accurate gauge thickness
>measurement, Remember I asked on the list if someone could get a
>as accurate as possible micrometer measurement of a piece of
>balloon when stretched to it's limit?
>
>I lost this number, I did have it at one time when we ran the
>tests on the machine to get the balloons tensile strength number.
>which a few years ago came in as
>Tensile Strength of the material that is the skin of the sphere, =
>16.6 Mpa
>
>Now as can be seen if the envelope is thicker or thinner than 1/4
>mil at burst it will change the pressure number. I in the back of
>my mind remember 1/4 mil as being this number.
>

>Soooo,, Now for the varying sizes, the numbers were crunched
>above for the 3000 gram balloon, the other sizes the failure
>pressure for a 9.44m diameter sphere will be 1.38 times higher
>than that of a 13m sphere.
>
>Then someone sent me this below,,,,,, wow Looks like Greek!
>
>Total force on shell = P*A = P*πD2/4
>Length of shell resisting force = π*D
>Force per unit length of shell = P*D/4
>Failure strength per unit length = t*Fy
>Pressure at yield, Py = 4*t*Fy/D
>t = thickness of shell
>Fy = yield strength
>D = diameter
Joe WB9SBD
>
>
>The Original Rolling Ball Clock
>Idle Tyme
>Idle-Tyme.com
>http://www.idle-tyme.com
>
>On 9/14/2010 1:06 AM, Hank Riley wrote:
>Joe, You were asked a question Monday morning and I haven't seen an answer from
>you yet: Joe, Your calculation was very close. So what is your formula
>for the different balloon sizes? Hank
>
>
>
>

8492. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:43:35 UTC
From: HarryM
Topic: 8476 Message: 8492

It did the same in my camera as yours.
Seems it needs a little sleep at the beginning.

Try this one, it works...

```
sleep 3000
click "shoot_full"
sleep 10000
click "shoot_full"
sleep 5000
click "shoot_full"
sleep 10000
click "shoot_full"
end
```

8493. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:46:50 UTC
From: HarryM
Topic: 8476 Message: 8493

I'm using an SX-200is camera.

This will also do the same...

```
sleep 3000
shoot
sleep 10000
shoot
sleep 5000
shoot
sleep 10000
shoot
end
```

8494. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:55:12 UTC
From: HarryM
Topic: 8476 Message: 8494

Joe,

It looks like without the sleep command at the beginning the camera needs a little time to stabilize. It is skipping over the first few lines of the script and starting at the part of the script that is at the 5 sec interval. So it throws off the whole sequence.

73 Harry

8495. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:55:34 UTC
From: Joe
Topic: 8476 Message: 8495
Attachments: 2 described; binary payloads are missing from this source WARC

Because this is in Video Mode. and when you press the shutter button
it starts the record and then when you press it again it stops it.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 10:37 AM, L. Paul Verhage wrote:
>
>
> Maybe I missed it, but why the press and release command?
> press "shoot_full"
> release "shoot_full"
> sleep 10000
> I think most times scripts use the _shoot_ command. The press is good
> when the button has to be held down while other buttons are pushed.
> After the press command, you have to use the release command to "take
> your finger off the button".
> Paul
>
>
> On Tue, Sep 14, 2010 at 10:20 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> [Attachment(s)
> <https://mail.google.com/mail/html/compose/static_files/blank_quirks.html#12b10d51855213
d6_TopText>
> from Joe included below]
>
> Something as simple as this file even works, but it works
> backwards, the record is 5 seconds and the pause between is 10,
>
> UG?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
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>
> On 9/14/2010 7:57 AM, HarryM wrote:

>> Joe,
>> Get the program UBDebug!
>> Run & debug your scripts without loading them on the camera.
>> I posted the link for Paul, but haven't heard if he used it or not.
>> It's a real time saver!
>> http://www.zenoshrdlu.com/kapstuff/zubdb.html
>
> Attachment(s) from Joe
>
> 1 of 1 File(s)
>
> 2.bas <http://xa.yimg.com/kq/groups/6764416/1133413083/name/2.bas>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8496. Re: [GPSL] Re: Excel

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 15:56:00 UTC
From: Joe
Topic: 8483 Message: 8496
Attachments: 1 described; binary payloads are missing from this source WARC

ahhh

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 10:40 AM, Jerry Gable wrote:
>
>
> Joe,
> By pressure in the middle, I meant the pressure curve during
> inflation, not the middle of the balloon.
>
> Jerry
>
> ----------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Jerry Gable <jerrygable@...>
> *Sent:* Tue, September 14, 2010 8:33:06 AM
> *Subject:* Re: [GPSL] Re: Excel
>
> Morning All,
>
> You say,
>
> "One thing that I would like to predict is the larger balloons will
> not have a big low pressure region in the middle. I believe as the
> balloons get larger the upturn at the end will get smaller. But I
> have been wrong before."
>
> I have to find it someplace. I got it here, but can't find it at the
> moment, But Rodger Farley has some numbers from some GIANT PE
> balloons Like 1 million cu meters and stuff like that and he stated
> that there IS a pressure difference inside the balloon envelope, but
> it is soo small, that it cal almost be ignores a value like 6 Pa is
> all that he says.
>
> Joe WB9SBD
>
>>
>>
>> I'll have to study Joe's formulas and see if I can figure them out.

>> It looks like they are related to the formula that I found.
>>
>> I did come across this formula for the pressure in a bubble.
>> P=4*gamma/R where P=pressure, R is the radius and gamma is the
>> strength of the skin.
>>
>> If you use the numbers in my 100G spreadsheet and extract the gamma
>> for one point and then use that gamma on the rest of the points it is
>> surprising how close the curve fits the measured, from the initial
>> peak pressure all the way down to where the curve turns up.
>>
>> What that tells me is this formula holds for balloons as well as
>> bubbles. The exception is when you approach the maximum stretch of
>> the latex the "gamma" increases.
>>
>> In Joe's Formula, the gamma is "thickness * Yield strength". It
>> uses D instead of R but that is just a scaling issue with gamma.
>>
>> Now assuming that all balloons have the same latex properties
>> (thickness, stretch, etc) we should be able to predict the internal
>> pressure pretty accurately using this and Joe's formulas below. I
>> just want to try another size to see if it correlates. I also want
>> to do more 100G balloons to test the consistency.
>>
>> One thing that I would like to predict is the larger balloons will
>> not have a big low pressure region in the middle. I believe as the
>> balloons get larger the upturn at the end will get smaller. But I
>> have been wrong before.
>>
>> ---
>> *From:* Joe <nss@...>
>> *To:* Hank Riley <n1ltv@...>; gpsl <GPSL@yahoogroups.com>
>> *Sent:* Tue, September 14, 2010 7:01:31 AM
>> *Subject:* [GPSL] Re: Excel
>>
>> Oops Missed that!
>>
>> I had help with that math, But this is what came out of it.
>>
>> t = 1 mil = 1/1000 of an inch. Is that what you mean?
>>
>> 1/1000" = 0.0254 mm
>>
>> Assuming D is 13m after pressurizing
>>
>> P_y = 4 * 0.0254 * 16.6/13000 = 0.00013MPa or 0.13kPa or 0.019psi
>>
>> If it is 1/4 mil, P_y is 0.0325kPa or 0.0047 psi
>>
>> Now this is where I needed a more accurate gauge thickness

>> measurement, Remember I asked on the list if someone could get a as
>> accurate as possible micrometer measurement of a piece of balloon
>> when stretched to it's limit?
>>
>> I lost this number, I did have it at one time when we ran the tests
>> on the machine to get the balloons tensile strength number. which a
>> few years ago came in as
>> Tensile Strength of the material that is the skin of the sphere, =
>> 16.6 Mpa
>>
>> Now as can be seen if the envelope is thicker or thinner than 1/4 mil
>> at burst it will change the pressure number. I in the back of my
>> mind remember 1/4 mil as being this number.
>>
>> Soooo,, Now for the varying sizes, the numbers were crunched above
>> for the 3000 gram balloon, the other sizes the failure pressure for
>> a 9.44m diameter sphere will be 1.38 times higher than that of a 13m
>> sphere.
>>
>> Then someone sent me this below,,,,,, wow Looks like Greek!
>>
>> Total force on shell = P*A = P*πD^2 /4
>>
>> Length of shell resisting force = π*D
>>
>> Force per unit length of shell = P*D/4
>>
>> Failure strength per unit length = t*F_y
>>
>> Pressure at yield, P_y = 4*t*F_y /D
>>
>> t = thickness of shell
>>
>> Fy = yield strength
>>
>> D = diameter
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 9/14/2010 1:06 AM, Hank Riley wrote:
>>> Joe,
>>>
>>> You were asked a question Monday morning and I haven't seen an answer
>>> from you yet:
>>>

>>>
>>> Joe,
>>> Your calculation was very close. So what is your formula for
>>> the different balloon sizes?
>>>
>>>
>>> Hank
>>>
>>>
>>>
>>>
>>>
>>>
>>
>>
>
>
>

8497. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:00:33 UTC
From: Joe
Topic: 8476 Message: 8497
Attachments: 1 described; binary payloads are missing from this source WARC

This is weird.

Ok what happened with that one is:

5 sec record
10 sec pause
then record started again but never stops

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 10:43 AM, HarryM wrote:
>
>
> It did the same in my camera as yours.
> Seems it needs a little sleep at the beginning.
> Try this one, it works...
> sleep 3000
> click "shoot_full"
> sleep 10000
> click "shoot_full"
> sleep 5000
> click "shoot_full"
> sleep 10000
> click "shoot_full"
> end
>
>
>

8498. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:05:31 UTC
From: HarryM
Topic: 8476 Message: 8498

Try a larger sleep interval at the beginning.

This is weird.
Ok what happened with that one is:

8499. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:10:49 UTC
From: Joe
Topic: 8476 Message: 8499
Attachments: 1 described; binary payloads are missing from this source WARC

tried

```
sleep 30000
click "shoot_full"
sleep 10000
click "shoot_full"
sleep 5000
click "shoot_full"
sleep 10000
click "shoot_full"
end
```

No difference except to took 30 seconds of course to get started. other wise still the same

5 sec record

10 sec pause

record starts and never stops.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 11:05 AM, HarryM wrote:
>
>
> Try a larger sleep interval at the beginning.
> This is weird.
> Ok what happened with that one is:
>
>
>

8500. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:21:19 UTC
From: Joe
Topic: 8476 Message: 8500
Attachments: 1 described; binary payloads are missing from this source WARC

tHAT WHAT i THOUGHT TOO, BUT EVEN WITH THE 30 SECOND SLEEP NO
CHANGE. OOps caplock,

sorry,

anyway, is't this weird?

we are close, but just not quite there yet...

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 10:55 AM, HarryM wrote:
>
>
> Joe,
> It looks like without the sleep command at the
> beginning the camera needs a little time to
> stabilize. It is skipping over the first few lines
> of the script and starting at the part of the
> script that is at the 5 sec interval. So it
> throws off the whole sequence.
> 73 Harry
>
>
>

8501. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:21:41 UTC
From: HarryM
Topic: 8476 Message: 8501

```
Try this one.
It Records three sequences.

@title VidLoop1

sleep 5000

for x=1 to 3
click "shoot_full"
sleep 15000
click "shoot_full"
print "Seq #";x;" of 3"
sleep 8000
next x

end
```

8502. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 16:33:26 UTC
From: Joe
Topic: 8476 Message: 8502
Attachments: 1 described; binary payloads are missing from this source WARC

Ok,

Results,,

r=7-8 sec?
p=12-15?
r=8?
p=12-15
r= starts and never stops.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 11:21 AM, HarryM wrote:
> @title VidLoop1
> sleep 5000
> for x=1 to 3
> click "shoot_full"
> sleep 15000
> click "shoot_full"
> print "Seq #";x;" of 3"
> sleep 8000
> next x
> end

8503. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 17:38:30 UTC
From: HarryM
Topic: 8476 Message: 8503

Joe,

Are you sure you have the right build for the firmware
version of your camera? There are two available.

v1.00A
v1.00E

How did you determine the version on yours?
Here's a utility to make sure...
http://drop.io/chdkshellbeta/asset/cameraversion12-sfx-exe

8504. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 17:45:28 UTC
From: HarryM
Topic: 8476 Message: 8504

...and... Make sure you d/l the FULL version of CHDK.

Are you sure you have the right build for the firmware
version of your camera? There are two available.

8505. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 17:57:29 UTC
From: Joe
Topic: 8476 Message: 8505
Attachments: 1 described; binary payloads are missing from this source WARC

QSL on the FULL did that!

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/14/2010 12:45 PM, HarryM wrote:
>
>
> ...and... Make sure you d/l the FULL version of CHDK.
>
> Are you sure you have the right build for the firmware
> version of your camera? There are two available.
>
>
>
>

8506. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 20:16:47 UTC
From: BASE
Topic: 8476 Message: 8506
Attachments: 1 described; binary payloads are missing from this source WARC

Harry's script should result in three recordings of 15 seconds with pauses of 8 seconds.
 Joe's camera misses the first "shoot_full" and as a result has two recordings of about 8 seconds with pauses of about 15 seconds before it starts a final recording that never sees a "shoot_full" to stop.
I'd suggest adding on "shoot_full" just before the for-next loop and see what happens.
Howard

--- On Tue, 9/14/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] CHDK - REM Quirk
To: GPSL@yahoogroups.com
Date: Tuesday, September 14, 2010, 12:33 PM

Ok,

Results,,

r=7-8 sec?

p=12-15?

r=8?

p=12-15

r= starts and never stops.

Joe WB9SBD

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Ball
Clock

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http://www.idle-tyme.com

On 9/14/2010 11:21 AM, HarryM wrote:

```
@title VidLoop1

sleep 5000

for x=1 to 3
  click "shoot_full"
```

```
  sleep 15000
  click "shoot_full"
  print "Seq #";x;" of 3"

  sleep 8000
next x

end
```

8507. Re: [GPSL] CHDK - REM Quirk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-14 20:28:37 UTC
From: HarryM
Topic: 8476 Message: 8507

Hi Howard,

There's something weird going on with Joe's camera or the build of CHDK he's using. Every script I've set him, that works on mine, screws up. I also noticed it missing the first part of the script on his. I suggested a longer initial sleep to let the camera stabilize, but that failed also.

73 Harry

8508. Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-15 21:51:52 UTC
From: Joe
Topic: 5922 Message: 8508
Attachments: 1 described; binary payloads are missing from this source WARC

Below is an awesome link to a video from a PBS show called History Detectives.
http://video.pbs.org/video/1513607701/

This is all about two ham Radio Operators and Project ECHO, the Balloon Satellite!

Joe WB9SBD
--

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http://www.idle-tyme.com

8509. CHDK Video Script

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-15 22:25:31 UTC
From: Joe
Topic: 8509 Message: 8509
Attachments: 1 described; binary payloads are missing from this source WARC

Hello All,,

Well for those that have been following the thread of getting a script to run videos with the Cannon CHDK scripts i finally got it to work and use all 16 Gig of the SD card for recording!

It took thinking that the camera is ultra slow and stupid and to mimic what your fingers do in every way and even slower.

Attached is a script that will make the Camera take 8 fifteen minute videos. (2 hours of recording time),

Here is the script, just one segment and I just copied this eight times in the file.

```
sleep 3000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"
sleep 900000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"
sleep 3000
```

But taking it very slow was all it needed to do,

Joe WB9SBD
--

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http://www.idle-tyme.com

8510. Re: [GPSL] CHDK Video Script [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-15 22:55:29 UTC
From: HarryM
Topic: 8510 Message: 8510
Attachments: 1 described; binary payloads are missing from this source WARC

```
Congratulation Joe!

Instead of all those lines of code, try the following.
I noticed that the "title" line needs to be there and the
indents between ":top" and "goto" need to be there.

73 Harry

-----

@title whatever

:top

sleep 3000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"
sleep 900000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"

goto "top"

end

----- Original Message -----
From: Joe
To: gpsl
Sent: Wednesday, September 15, 2010 5:25 PM
Subject: [GPSL] CHDK Video Script [1 Attachment]

[Attachment(s) from Joe included below]

Hello All,,

Well for those that have been following the thread of getting a script to run videos with
the Cannon CHDK scripts i finally got it to work and use all 16 Gig of the SD card for
```

recording!

It took thinking that the camera is ultra slow and stupid and to mimic what your fingers do in every way and even slower.

Attached is a script that will make the Camera take 8 fifteen minute videos. (2 hours of recording time),

Here is the script, just one segment and I just copied this eight times in the file.

```
sleep 3000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"
sleep 900000
press "shoot_half"
sleep 1000
press "shoot_full"
sleep 1000
release "shoot_full"
sleep 1000
release "shoot_half"
sleep 3000
```

But taking it very slow was all it needed to do,

Joe WB9SBD

--

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8511. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 04:36:00 UTC
From: Mike Manes
Topic: 5922 Message: 8511

Nice catch, Joe! I remember the Echo project, but didn't have the VHF gear that could use it. But I seem to recall reading in QST about some hams who did - the first amateur satellite QSO! Dimes to donuts, Ralph W0RPK was one of 'em. That was before the FCC was issuing WB8 calls, tho - sri, Bill.

73 de Mike W5VSI

On 9/15/2010 15:51, Joe wrote:
> Below is an awesome link to a video from a PBS show called History Detectives.
> http://video.pbs.org/video/1513607701/
>
> This is all about two ham Radio Operators and Project ECHO, the Balloon Satellite!
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8512. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 07:48:29 UTC
From: wb8elk@aol.com
Topic: 5922 Message: 8512

Hi Mike,

I am old enough to remember hearing my uncle Clark W8UN tuning in the beep beeps of Sputnik....I also remember as a kid watching the Echo Balloon during a visual pass but didn't get my ham license until I was 15.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Joe <nss@...>
Sent: Wed, Sep 15, 2010 11:36 pm
Subject: Re: [GPSL] Awesome Video

Nice catch, Joe! I remember the Echo project, but didn't have the VHF gear that could use it. But I seem to recall reading in QST about some hams who did - the first amateur satellite QSO! Dimes to donuts, Ralph W0RPK was one of 'em. That was before the FCC was issuing WB8 calls, tho - sri, Bill.

73 de Mike W5VSI

On 9/15/2010 15:51, Joe wrote:
> Below is an awesome link to a video from a PBS show called History Detectives.
> http://video.pbs.org/video/1513607701/
>
> This is all about two ham Radio Operators and Project ECHO, the Balloon Satellite!
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8513. SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 13:35:06 UTC
From: L. Paul Verhage
Topic: 8513 Message: 8513
Attachments: 1 described; binary payloads are missing from this source WARC

After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT. Aftyer getting it set up, I took it to work this morning. I've attached the two waypoints that were sent to the SPOT satellite. The receiver/transmitter was sitting on the dash of my car, so only two messages got out. I'll be interested in sending it up on a near space flight later this year.

--
Onwards and Upwards,
Paul

8514. Re: [Balloonatics] Parachute Positioning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 14:16:59 UTC
From: Joe
Topic: 8514 Message: 8514
Attachments: 1 described; binary payloads are missing from this source WARC

It IS actually quite simple.

I took your design more or less and just pushed it up a bit since I did not have the parts to make it fail safe at low altitudes with the baroswitch components. So I just took the basic design and exagergerated the motion soo far that it needs to rotate Like120 degrees or so to actually release. so any very short duration lapses in tension and it wouldn't have enough time to release. Plus we made the tension to be just barely open. any tension at all and it remains closed. we figure if it gets stuck, the PBC will shake it open at worst case. In addition the shock absorber keeps tension on it no matter what or at least until there is absolutely no pull left (Popped Balloon)

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/15/2010 11:06 PM, Mike Manes wrote:
> Hi Joe,
>
> Hey, I didn't know that you'd rolled your own fast release. Totally
> kewl! You should get that info out to the GPSL group along with
> some pix so I won't feel so bad giving the bum's rush to all those
> folks who've asked for mechanical drawings or to buy one.
>
> I >knew< someone would eventually figure out how simple this goodie
> is and kluge one up just like I did.
>
> 73 de Mike W5VSI
>
> On 9/15/2010 15:08, Joe wrote:
>> Our quick release device, copied after the EOSS unit. at first had a
>> spring as the acctive part of the unit. and it was later changed to a
>> rubber band. nothing special either, Just one we had laying around.
>> and it's worked flawlessly for 6 flights so far.
>>
>> Joe WB9SBD
>

8515. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 14:23:44 UTC
From: Joe
Topic: 5922 Message: 8515
Attachments: 1 described; binary payloads are missing from this source WARC

I wonder in our lower altitude balloon experiments how big a mylar balloon would have to be to become a decent passive reflector.

Like the Colorado balloon Boy saucer balloon,,, if made as a ZP balloon, I wonder what altitude it might have gotten to, an it was pretty big, I wonder what freqs could have reflected?

A Dish antenna that is a screen only needs to have wire spacings of a tenth of a wavelength. so i would think something that big should reflect any vhf/uhf signal.

I remember in the suburbs of chicago when i first got licenced, we all used to bounce 2 meter sigs off all the jets coming in and out of Ohare...this was in the 70's

hmmmmm, do we see a trend here with me and Ohare?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/15/2010 11:36 PM, Mike Manes wrote:
> Nice catch, Joe! I remember the Echo project, but didn't have the VHF
> gear that could use it. But I seem to recall reading in QST about some
> hams
> who did - the first amateur satellite QSO! Dimes to donuts, Ralph W0RPK
> was one of 'em. That was before the FCC was issuing WB8 calls, tho - sri,
> Bill.
>
> 73 de Mike W5VSI
>
> On 9/15/2010 15:51, Joe wrote:
>> Below is an awesome link to a video from a PBS show called History
>> Detectives.
>> http://video.pbs.org/video/1513607701/
>>
>> This is all about two ham Radio Operators and Project ECHO, the
>> Balloon Satellite!
>>
>> Joe WB9SBD
>> --
>>
>> The Original Rolling Ball Clock

>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>

8516. Re: [GPSL] SPOT [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 14:59:50 UTC
From: Jerry Gable
Topic: 8513 Message: 8516

The SPOT looks interesting. It has a pretty low ceiling. What happens when you go above that?

Jerry

From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Thu, September 16, 2010 6:35:06 AM
Subject: [GPSL] SPOT [1 Attachment]

[Attachment(s) from L. Paul Verhage included below]
After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT. Aftyer getting it set up, I took it to work this morning. I've attached the two waypoints that were sent to the SPOT satellite. The receiver/transmitter was sitting on the dash of my car, so only two messages got out. I'll be interested in sending it up on a near space flight later this year.

--
Onwards and Upwards,
Paul

8517. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 18:24:05 UTC
From: L. Paul Verhage
Topic: 8513 Message: 8517

Bill will know better. I believe it will come back online once it drops
below 60k feet.

I'll find out for myself in a few weeks.

Paul

On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...> wrote:

>
>
> The SPOT looks interesting. It has a pretty low ceiling. What happens
> when you go above that?
>
> Jerry
>
>
> ------------------------------
> *From:* L. Paul Verhage <nearsys@...>
> *To:* gpsl@yahoogroups.com
> *Sent:* Thu, September 16, 2010 6:35:06 AM
> *Subject:* [GPSL] SPOT [1 Attachment]
>
>
>
> After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT.
> Aftyer getting it set up, I took it to work this morning. I've attached the
> two waypoints that were sent to the SPOT satellite. The
> receiver/transmitter was sitting on the dash of my car, so only two messages
> got out. I'll be interested in sending it up on a near space flight later
> this year.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Onwards and Upwards,
Paul

8518. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 19:55:31 UTC
From: Jerry Gable
Topic: 8513 Message: 8518

Paul,
Let us know what it does at altitude. Acording to their website the Altitude range is pretty small. Max Alt is listed as 21,320 ft. As long as it turns back on when it gets below this altitude it would be a great way to find the payload in back country.

Any ideas on how to encourage it to land antenna up? A short, wide package (say 8x8x2tall) would probably give it better than 50% chance of landing that way.

Jerry

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 16, 2010 11:24:05 AM
Subject: Re: [GPSL] SPOT

Bill will know better. I believe it will come back online once it drops below 60k feet.

I'll find out for myself in a few weeks.

Paul

On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...> wrote:

>
>
>The SPOT looks interesting. It has a pretty low ceiling. What happens when you
>go above that?
>
>Jerry
>
>
>
>
>
>

From: L. Paul Verhage <nearsys@...>
>To: gpsl@yahoogroups.com
>Sent: Thu, September 16, 2010 6:35:06 AM
>Subject: [GPSL] SPOT [1 Attachment]
>
>
>
>After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT. Aftyer

>getting it set up, I took it to work this morning. I've attached the two
>waypoints that were sent to the SPOT satellite. The receiver/transmitter was
>sitting on the dash of my car, so only two messages got out. I'll be interested
>in sending it up on a near space flight later this year.
>
>--
>Onwards and Upwards,
>Paul
>
>
>

--
Onwards and Upwards,
Paul

8519. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:07:38 UTC
From: L. Paul Verhage
Topic: 8513 Message: 8519

Bill said he got a position report when it was up sidedown.

It will send position reports out every ten minutes on descent, so you'll get a track of the landing. Let's see, 10 minutes reports at 1,000 fpm descent, you could potentially get your last report 2 miles above the ground. On average, more like 5,000 feet AGL. What kind of a foot print does that leave?

I wonder if it could be packed in a seperate module suspended well below the last one by a single cord. If that module was a lot wider than tall, it may be resistant to tipping over.

Optionally, perhaps it could be placed inside a sphere that was bottom heavy.

Or it could be suspended on a craddle inside a module that is rotated to horizontal by a servo after landing.

What about putting the SPOT inside a spherical container inside a box. Regardless of how the box lands, the sphere inside is free to rotate to heavy side down, like a hamster ball.

I think I like the last idea.

Paul

On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...> wrote:

>
>
> Paul,
> Let us know what it does at altitude. Acording to their website the
> Altitude range is pretty small. Max Alt is listed as 21,320 ft. As long as
> it turns back on when it gets below this altitude it would be a great way to
> find the payload in back country.
>
> Any ideas on how to encourage it to land antenna up? A short, wide package
> (say 8x8x2tall) would probably give it better than 50% chance of landing
> that way.
>
> Jerry
>
>
>
> ------------------------------
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com

> *Sent:* Thu, September 16, 2010 11:24:05 AM
> *Subject:* Re: [GPSL] SPOT
>
>
>
> Bill will know better. I believe it will come back online once it drops
> below 60k feet.
>
> I'll find out for myself in a few weeks.
>
> Paul
>
> On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...> wrote:
>
>>
>>
>> The SPOT looks interesting. It has a pretty low ceiling. What happens
>> when you go above that?
>>
>> Jerry
>>
>>
>> ------------------------------
>> *From:* L. Paul Verhage <nearsys@...>
>> *To:* gpsl@yahoogroups.com
>> *Sent:* Thu, September 16, 2010 6:35:06 AM
>> *Subject:* [GPSL] SPOT [1 Attachment]
>>
>>
>>
>> After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT.
>> Aftyer getting it set up, I took it to work this morning. I've attached the
>> two waypoints that were sent to the SPOT satellite. The
>> receiver/transmitter was sitting on the dash of my car, so only two messages
>> got out. I'll be interested in sending it up on a near space flight later
>> this year.
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
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>
> --
> Onwards and Upwards,
> Paul
>
>

>

--
Onwards and Upwards,
Paul

8520. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:13:39 UTC
From: Joe
Topic: 8513 Message: 8520
Attachments: 1 described; binary payloads are missing from this source WARC

But the hamster ball will only work if the ball and box are
frictionless. otherwise it could still end up up-side-down if it's
stuck trying to roll into a side or corner of the box.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/16/2010 3:07 PM, L. Paul Verhage wrote:
>
>
> Bill said he got a position report when it was up sidedown.
> It will send position reports out every ten minutes on descent, so
> you'll get a track of the landing. Let's see, 10 minutes reports at
> 1,000 fpm descent, you could potentially get your last report 2 miles
> above the ground. On average, more like 5,000 feet AGL. What kind of
> a foot print does that leave?
> I wonder if it could be packed in a seperate module suspended well
> below the last one by a single cord. If that module was a lot wider
> than tall, it may be resistant to tipping over.
> Optionally, perhaps it could be placed inside a sphere that was bottom
> heavy.
> Or it could be suspended on a craddle inside a module that is rotated
> to horizontal by a servo after landing.
> What about putting the SPOT inside a spherical container inside
> a box. Regardless of how the box lands, the sphere inside is free to
> rotate to heavy side down, like a hamster ball.
> I think I like the last idea.
> Paul
>
> On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
>
>
>
> Paul,
> Let us know what it does at altitude. Acording to their website
> the Altitude range is pretty small. Max Alt is listed as 21,320
> ft. As long as it turns back on when it gets below this altitude
> it would be a great way to find the payload in back country.
>
> Any ideas on how to encourage it to land antenna up? A short,

> wide package (say 8x8x2tall) would probably give it better than
> 50% chance of landing that way.
>
> Jerry
>
>
>
> ---
> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, September 16, 2010 11:24:05 AM
> *Subject:* Re: [GPSL] SPOT
>
> Bill will know better. I believe it will come back online once it
> drops below 60k feet.
> I'll find out for myself in a few weeks.
> Paul
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> On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
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> What happens when you go above that?
>
> Jerry
>
>
> ---
> *From:* L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>>
> *To:* gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> *Sent:* Thu, September 16, 2010 6:35:06 AM
> *Subject:* [GPSL] SPOT [1 Attachment]
>
> After hearing Bill's presenrtation in 2008, I've wanted to get
> a SPOT. Aftyer getting it set up, I took it to work this
> morning. I've attached the two waypoints that were sent to
> the SPOT satellite. The receiver/transmitter was sitting on
> the dash of my car, so only two messages got out. I'll be
> interested in sending it up on a near space flight later this
> year.
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> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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8521. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:17:54 UTC
From: Jerry Gable
Topic: 8513 Message: 8521

I think a separate container is probably a good idea. They talk about the need to keep it at least 12" away from any other GPS to prevent interference.

As far as keeping it upright, how about a gimble mount, a couple of servos and an accelerometer? Might as well over engineer this:)

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 16, 2010 1:07:38 PM
Subject: Re: [GPSL] SPOT

Bill said he got a position report when it was up sidedown.

It will send position reports out every ten minutes on descent, so you'll get a track of the landing. Let's see, 10 minutes reports at 1,000 fpm descent, you could potentially get your last report 2 miles above the ground. On average, more like 5,000 feet AGL. What kind of a foot print does that leave?

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Or it could be suspended on a craddle inside a module that is rotated to horizontal by a servo after landing.

What about putting the SPOT inside a spherical container inside a box. Regardless of how the box lands, the sphere inside is free to rotate to heavy side down, like a hamster ball.

I think I like the last idea.

Paul

On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...> wrote:

>
>
>Paul,
>Let us know what it does at altitude. Acording to their website the Altitude
>range is pretty small. Max Alt is listed as 21,320 ft. As long as it turns
>back on when it gets below this altitude it would be a great way to find the
>payload in back country.
>
>Any ideas on how to encourage it to land antenna up? A short, wide package (say
>8x8x2tall) would probably give it better than 50% chance of landing that way.

>
>Jerry
>
>
>
>
>
>
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From: L. Paul Verhage <nearsys@...>
>To: GPSL@yahoogroups.com
>Sent: Thu, September 16, 2010 11:24:05 AM
>Subject: Re: [GPSL] SPOT
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>Bill will know better. I believe it will come back online once it drops below
>60k feet.
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>On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...> wrote:
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>>go above that?
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From: L. Paul Verhage <nearsys@...>
>>To: gpsl@yahoogroups.com
>>Sent: Thu, September 16, 2010 6:35:06 AM
>>Subject: [GPSL] SPOT [1 Attachment]
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>>After hearing Bill's presenrtation in 2008, I've wanted to get a SPOT. Aftyer
>>getting it set up, I took it to work this morning. I've attached the two
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>>sitting on the dash of my car, so only two messages got out. I'll be interested

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>>Paul
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Onwards and Upwards,
Paul

8522. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:23:19 UTC
From: L. Paul Verhage
Topic: 8513 Message: 8522

Wait wait....
I'll go up and keep the unit flat!!!
;)

The roller inside a roller sounds pretty simple. I like using the seperate module, however.

Paul

On Thu, Sep 16, 2010 at 3:17 PM, Jerry Gable <jerrygable@...> wrote:

>
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> I think a separate container is probably a good idea. They talk about the
> need to keep it at least 12" away from any other GPS to prevent
> interference.
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> As far as keeping it upright, how about a gimble mount, a couple of servos
> and an accelerometer? Might as well over engineer this:)
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> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 16, 2010 1:07:38 PM
> *Subject:* Re: [GPSL] SPOT
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> Bill said he got a position report when it was up sidedown.
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> It will send position reports out every ten minutes on descent, so you'll
> get a track of the landing. Let's see, 10 minutes reports at 1,000 fpm
> descent, you could potentially get your last report 2 miles above the
> ground. On average, more like 5,000 feet AGL. What kind of a foot print
> does that leave?
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> I wonder if it could be packed in a seperate module suspended well below
> the last one by a single cord. If that module was a lot wider than tall, it
> may be resistant to tipping over.
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> Optionally, perhaps it could be placed inside a sphere that was bottom
> heavy.
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> Or it could be suspended on a craddle inside a module that is rotated to

> horizontal by a servo after landing.
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> What about putting the SPOT inside a spherical container inside a box.
> Regardless of how the box lands, the sphere inside is free to rotate to
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>> Altitude range is pretty small. Max Alt is listed as 21,320 ft. As long as
>> it turns back on when it gets below this altitude it would be a great way to
>> find the payload in back country.
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>> Any ideas on how to encourage it to land antenna up? A short, wide
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8523. CHDK Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:28:32 UTC
From: Joe
Topic: 8523 Message: 8523
Attachments: 1 described; binary payloads are missing from this source WARC

OK regular alkaline couldn't do it, they ran out of gas before card
was full. So just wiped the card clean and started over with a set of
Lithiums in the camera.

and way cool gang, it works and works perfectly it ran till the card
was full, 9 - 15 min loops and a 5 min leftover small one.

looking at the card it recorded till there was 320 K left open, thats it,

so on a 16 Gig card we got 140 minutes of recording!

Cool

I attached for anyone that wants it the bas file that Harry Made,

Enjoy!

Joe WB9SBD
Near Space Sciences
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8524. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 20:30:39 UTC
From: Joe
Topic: 8513 Message: 8524
Attachments: 1 described; binary payloads are missing from this source WARC

how about a like gyroscope gymbal, like a ship board compass? an
assembly like a gyroscope with the innerds base heavy, then it
absolutely doesn't nedd to land any direction and up will be up.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
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On 9/16/2010 3:23 PM, L. Paul Verhage wrote:
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> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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> *From:* L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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> <mailto:nearsys@...>>
> *To:* gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
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8525. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 22:03:45 UTC
From: Jerry Gable
Topic: 8513 Message: 8525

I think a fairly long, skinny box (think of a short shipping tube) with a rod on bearings through the center and the Spot slightly below center would do. The only way it wouldn't face up is if the box stood on end and that is unlikely.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: L. Paul Verhage <nearsys@...>
Sent: Thu, September 16, 2010 1:30:39 PM
Subject: Re: [GPSL] SPOT

how about a like gyroscope gymbal, like a ship board compass? an assembly like a gyroscope with the innerds base heavy, then it absolutely doesn't nedd to land any direction and up will be up.

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From: L. Paul Verhage <nearsys@...>
>>>>To: gpsl@yahoogroups.com
>>>>Sent: Thu, September 16,
>>>>2010 6:35:06 AM
>>>>Subject: [GPSL] SPOT [1
>>>>Attachment]
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8526. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 22:16:32 UTC
From: wb8elk@aol.com
Topic: 8513 Message: 8526

The Spot works up to about 60,000 feet....higher than their spec of 27,000 feet.....it does not report the altitude though. It usually comes back on during the descent after falling below 60k ft....but sometimes does not report until after it has landed.

- Bill WB8ELK

-----Original Message-----
From: Jerry Gable <jerrygable@...>
To: GPSL@yahoogroups.com
Sent: Thu, Sep 16, 2010 9:59 am
Subject: Re: [GPSL] SPOT

The SPOT looks interesting. It has a pretty low ceiling. What happens when you go above that?

Jerry

From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Thu, September 16, 2010 6:35:06 AM
Subject: [GPSL] SPOT [1 Attachment]

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Onwards and Upwards,
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8527. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 22:21:15 UTC
From: wb8elk@aol.com
Topic: 8513 Message: 8527

I've had the Spot successfully report it's position while upside down in the mud after landing. I'm working on a "hamster ball" inside container for it though for this Fall....actually my version is two concentric rings with pivot points inside a styrofoam container with a weight on the bottom of the Spot....kinda like that three axis simulator that they do in Space Camp.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, Sep 16, 2010 3:07 pm
Subject: Re: [GPSL] SPOT

Bill said he got a position report when it was up sidedown.

It will send position reports out every ten minutes on descent, so you'll get a track of the landing. Let's see, 10 minutes reports at 1,000 fpm descent, you could potentially get your last report 2 miles above the ground. On average, more like 5,000 feet AGL. What kind of a foot print does that leave?

I wonder if it could be packed in a seperate module suspended well below the last one by a single cord. If that module was a lot wider than tall, it may be resistant to tipping over.

Optionally, perhaps it could be placed inside a sphere that was bottom heavy.

Or it could be suspended on a craddle inside a module that is rotated to horizontal by a servo after landing.

What about putting the SPOT inside a spherical container inside a box. Regardless of how the box lands, the sphere inside is free to rotate to heavy side down, like a hamster ball.

I think I like the last idea.

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On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...> wrote:

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Let us know what it does at altitude. Acording to their website the Altitude range is pretty small. Max Alt is listed as 21,320 ft. As long as it turns back on when it gets below this altitude it would be a great way to find the payload in back country.

Any ideas on how to encourage it to land antenna up? A short, wide package (say 8x8x2tall) would probably give it better than 50% chance of landing that way.

Jerry

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 16, 2010 11:24:05 AM
Subject: Re: [GPSL] SPOT

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I'll find out for myself in a few weeks.

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Subject: [GPSL] SPOT [1 Attachment]

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8528. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 22:25:39 UTC
From: wb8elk@aol.com
Topic: 8513 Message: 8528

I usually do put the Spot in a seperate payload...usually the last thing on the flight train.

Yes....I'm doing my inside support as two concentric rings with alternating gimbals and a weight on the bottom of the Spot...that way no matter what the landing orientation is, it will always point up....probably not worth doing as it does seem to work at odd angles and even upside down....but it would increase the signal if it was able to point directly up at the sky. I'm mostly doing this so that it will work while floating at sea when I start the trans-Atlantic flights in December since upside down in salt water probably wouldn't work very well.

- Bill WB8ELK

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8529. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-16 23:08:21 UTC
From: James Hannon
Topic: 5922 Message: 8529
Attachments: 1 described; binary payloads are missing from this source WARC

When I go to and from work each day I drive down a portion of Echo Hill Road, so named because on this road was the site of one of the project Echo earth stations.

Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL

-----Original Message-----
From: "Joe"
Sent 9/16/2010 9:23:44 AM
To: "Mike Manes"
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Awesome Video

I wonder in our lower altitude balloon experiments how big a mylar balloon would have to be to become a decent passive reflector.

Like the Colorado balloon Boy saucer balloon,,,? if made as a ZP balloon,? I wonder what altitude it might have gotten to,? an it was pretty big,? I wonder what freqs could have reflected?

A Dish antenna that is a screen only needs to have wire spacings of a tenth of a wavelength.? so i would think something that big should reflect any vhf/uhf signal.

I remember in the suburbs of chicago when i first got licenced, we all used to bounce 2 meter sigs off all the jets coming in and out of Ohare...this was in the 70's

hmmmmm,? do we see a trend here with me and Ohare?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/15/2010 11:36 PM, Mike Manes wrote:
Nice catch, Joe!? I remember the Echo project, but didn't have the VHF gear that could use it. But I seem to recall reading in QST about some hams who did - the first amateur satellite QSO!? Dimes to donuts, Ralph W0RPK was one of 'em. That was before the FCC was issuing WB8 calls, tho - sri, Bill.

73 de Mike W5VSI

On 9/15/2010 15:51, Joe wrote:

? Below is an awesome link to a video from a PBS show called History Detectives.
http://video.pbs.org/video/1513607701/

This is all about two ham Radio Operators and Project ECHO, the Balloon Satellite!

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8530. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 00:17:34 UTC
From: Joe
Topic: 8513 Message: 8530
Attachments: 1 described; binary payloads are missing from this source WARC

exactly Like a gyroscope compass thingy. but yeah..

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/16/2010 5:25 PM, wb8elk@... wrote:
>
>
> I usually do put the Spot in a seperate payload...usually the last
> thing on the flight train.
> Yes....I'm doing my inside support as two concentric rings with
> alternating gimbals and a weight on the bottom of the Spot...that way
> no matter what the landing orientation is, it will always point
> up....probably not worth doing as it does seem to work at odd angles
> and even upside down....but it would increase the signal if it was
> able to point directly up at the sky. I'm mostly doing this so that it
> will work while floating at sea when I start the trans-Atlantic
> flights in December since upside down in salt water probably wouldn't
> work very well.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Jerry Gable <jerrygable@...>
> To: GPSL@yahoogroups.com
> Sent: Thu, Sep 16, 2010 3:17 pm
> Subject: Re: [GPSL] SPOT
>
> I think a separate container is probably a good idea. They talk about
> the need to keep it at least 12" away from any other GPS to prevent
> interference.
>
> As far as keeping it upright, how about a gimble mount, a couple of
> servos and an accelerometer? Might as well over engineer this:)
>
>
>
> ---
> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>

> *Sent:* Thu, September 16, 2010 1:07:38 PM
> *Subject:* Re: [GPSL] SPOT
>
> Bill said he got a position report when it was up sidedown.
> It will send position reports out every ten minutes on descent, so
> you'll get a track of the landing. Let's see, 10 minutes reports at
> 1,000 fpm descent, you could potentially get your last report 2 miles
> above the ground. On average, more like 5,000 feet AGL. What kind of
> a foot print does that leave?
> I wonder if it could be packed in a seperate module suspended well
> below the last one by a single cord. If that module was a lot wider
> than tall, it may be resistant to tipping over.
> Optionally, perhaps it could be placed inside a sphere that was bottom
> heavy.
> Or it could be suspended on a craddle inside a module that is rotated
> to horizontal by a servo after landing.
> What about putting the SPOT inside a spherical container inside
> a box. Regardless of how the box lands, the sphere inside is free to
> rotate to heavy side down, like a hamster ball.
> I think I like the last idea.
> Paul
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> On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
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> Paul,
> Let us know what it does at altitude. Acording to their website
> the Altitude range is pretty small. Max Alt is listed as 21,320
> ft. As long as it turns back on when it gets below this altitude
> it would be a great way to find the payload in back country.
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> Any ideas on how to encourage it to land antenna up? A short,
> wide package (say 8x8x2tall) would probably give it better than
> 50% chance of landing that way.
>
> Jerry
>
>
>
> ---
> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, September 16, 2010 11:24:05 AM
> *Subject:* Re: [GPSL] SPOT
>
> Bill will know better. I believe it will come back online once it
> drops below 60k feet.
> I'll find out for myself in a few weeks.

> Paul
>
> On Thu, Sep 16, 2010 at 9:59 AM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
>
>
> The SPOT looks interesting. It has a pretty low ceiling.
> What happens when you go above that?
>
> Jerry
>
>
> ---
> *From:* L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>>
> *To:* gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> *Sent:* Thu, September 16, 2010 6:35:06 AM
> *Subject:* [GPSL] SPOT [1 Attachment]
>
> After hearing Bill's presenrtation in 2008, I've wanted to get
> a SPOT. Aftyer getting it set up, I took it to work this
> morning. I've attached the two waypoints that were sent to
> the SPOT satellite. The receiver/transmitter was sitting on
> the dash of my car, so only two messages got out. I'll be
> interested in sending it up on a near space flight later this
> year.
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> Onwards and Upwards,
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>

8531. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 00:51:18 UTC
From: Jerry Gable
Topic: 8513 Message: 8531

Bill,
So what do you do when you see that your payload is floating 800 miles off the coast of Newfoundland?

From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 16, 2010 3:25:39 PM
Subject: Re: [GPSL] SPOT

I usually do put the Spot in a seperate payload...usually the last thing on the flight train.

Yes....I'm doing my inside support as two concentric rings with alternating gimbals and a weight on the bottom of the Spot...that way no matter what the landing orientation is, it will always point up....probably not worth doing as it does seem to work at odd angles and even upside down....but it would increase the signal if it was able to point directly up at the sky. I'm mostly doing this so that it will work while floating at sea when I start the trans-Atlantic flights in December since upside down in salt water probably wouldn't work very well.

- Bill WB8ELK

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I think a separate container is probably a good idea. They talk about the need to keep it at least 12" away from any other GPS to prevent interference.

As far as keeping it upright, how about a gimble mount, a couple of servos and an accelerometer? Might as well over engineer this:)

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Subject: Re: [GPSL] SPOT

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more like 5,000 feet AGL. What kind of a foot print does that leave?

I wonder if it could be packed in a seperate module suspended well below the last one by a single cord. If that module was a lot wider than tall, it may be resistant to tipping over.

Optionally, perhaps it could be placed inside a sphere that was bottom heavy.

Or it could be suspended on a craddle inside a module that is rotated to horizontal by a servo after landing.

What about putting the SPOT inside a spherical container inside a box. Regardless of how the box lands, the sphere inside is free to rotate to heavy side down, like a hamster ball.

I think I like the last idea.

Paul

On Thu, Sep 16, 2010 at 2:55 PM, Jerry Gable <jerrygable@...> wrote:

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>Paul,
>Let us know what it does at altitude. Acording to their website the Altitude
>range is pretty small. Max Alt is listed as 21,320 ft. As long as it turns
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>>Jerry
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From: L. Paul Verhage <nearsys@...>
>>To: gpsl@yahoogroups.com
>>Sent: Thu, September 16, 2010 6:35:06 AM
>>Subject: [GPSL] SPOT [1 Attachment]
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Onwards and Upwards,
Paul

8532. Re: [GPSL] SPOT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 01:23:19 UTC
From: Mike Manes
Topic: 8513 Message: 8532

Balls don't roll easily on most terrain - even the seemingly featureless planar landing sites typical of E. Colorado. It's the prairie grass, y'see. Students who've flown "roversats" on our strings have learned that the hard way.

Of course, you might get lucky and land on a paved highway ...

- 73 de Mike W5VSI

On 9/16/2010 14:07, L. Paul Verhage wrote:
>
>
> Bill said he got a position report when it was up sidedown.
> It will send position reports out every ten minutes on descent, so you'll get
> a track of the landing. Let's see, 10 minutes reports at 1,000 fpm descent,
> you could potentially get your last report 2 miles above the ground. On
> average, more like 5,000 feet AGL. What kind of a foot print does that leave?
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> landing that way.
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> Jerry
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> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thu, September 16, 2010 11:24:05 AM
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8533. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 01:46:07 UTC
From: Mike Manes
Topic: 5922 Message: 8533

The minimum size for an effective reflector is 1/2 wavelength. So that
134-ft diameter bag COULD have worked down to 80m - but the small aperture
and path loss woulda pushed even a 60 dBm terrestrial sig down into the
mud (QRN). I expect that a decent 2m rig coulda worked fine, IIRC.

On 9/16/2010 08:23, Joe wrote:
> I wonder in our lower altitude balloon experiments how big a mylar balloon
> would have to be to become a decent passive reflector.
>
> Like the Colorado balloon Boy saucer balloon,,, if made as a ZP balloon, I
> wonder what altitude it might have gotten to, an it was pretty big, I wonder
> what freqs could have reflected?
>
> A Dish antenna that is a screen only needs to have wire spacings of a tenth of
> a wavelength. so i would think something that big should reflect any vhf/uhf
> signal.
>
> I remember in the suburbs of chicago when i first got licenced, we all used to
> bounce 2 meter sigs off all the jets coming in and out of Ohare...this was in
> the 70's
>
> hmmmmm, do we see a trend here with me and Ohare?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/15/2010 11:36 PM, Mike Manes wrote:
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>> gear that could use it. But I seem to recall reading in QST about some hams
>> who did - the first amateur satellite QSO! Dimes to donuts, Ralph W0RPK
>> was one of 'em. That was before the FCC was issuing WB8 calls, tho - sri,
>> Bill.
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>> 73 de Mike W5VSI
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>> On 9/15/2010 15:51, Joe wrote:
>>> Below is an awesome link to a video from a PBS show called History Detectives.
>>> http://video.pbs.org/video/1513607701/
>>>
>>> This is all about two ham Radio Operators and Project ECHO, the Balloon
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--
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8534. Re: [Balloonatics] Parachute Positioning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 01:37:30 UTC
From: Mike Manes
Topic: 8514 Message: 8534

Shoot us some pix!

On 9/16/2010 08:16, Joe wrote:
> It IS actually quite simple.
>
> I took your design more or less and just pushed it up a bit since I did not
> have the parts to make it fail safe at low altitudes with the baroswitch
> components. So I just took the basic design and exagergerated the motion soo
> far that it needs to rotate Like120 degrees or so to actually release. so any
> very short duration lapses in tension and it wouldn't have enough time to
> release. Plus we made the tension to be just barely open. any tension at all
> and it remains closed. we figure if it gets stuck, the PBC will shake it open
> at worst case. In addition the shock absorber keeps tension on it no matter
> what or at least until there is absolutely no pull left (Popped Balloon)
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> Joe WB9SBD
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> On 9/15/2010 11:06 PM, Mike Manes wrote:
>> Hi Joe,
>>
>> Hey, I didn't know that you'd rolled your own fast release. Totally
>> kewl! You should get that info out to the GPSL group along with
>> some pix so I won't feel so bad giving the bum's rush to all those
>> folks who've asked for mechanical drawings or to buy one.
>>
>> I >knew< someone would eventually figure out how simple this goodie
>> is and kluge one up just like I did.
>>
>> 73 de Mike W5VSI
>>
>> On 9/15/2010 15:08, Joe wrote:
>>> Our quick release device, copied after the EOSS unit. at first had a
>>> spring as the acctive part of the unit. and it was later changed to a
>>> rubber band. nothing special either, Just one we had laying around.
>>> and it's worked flawlessly for 6 flights so far.
>>>
>>> Joe WB9SBD
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8535. Re: [GPSL] Awesome Video

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 01:41:23 UTC
From: Mike Manes
Topic: 5922 Message: 8535

I got my ticket when I was 16, but that was before Echo launched, young man :=). But my station consisted of a Heathkit AR-1 receiver with a BC-453 Q-5er and a DX-40. I prolly coulda heard Sputnik just below 15m then, but I was 3 years too late :=(.
- Mike W5VSI

On 9/16/2010 01:48, wb8elk@... wrote:
>
>
> Hi Mike,
> I am old enough to remember hearing my uncle Clark W8UN tuning in the beep
> beeps of Sputnik....I also remember as a kid watching the Echo Balloon during
> a visual pass but didn't get my ham license until I was 15.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: Joe <nss@...>
> Sent: Wed, Sep 15, 2010 11:36 pm
> Subject: Re: [GPSL] Awesome Video
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> Nice catch, Joe! I remember the Echo project, but didn't have the VHF
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> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
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8536. Re: [Balloonatics] Parachute Positioning

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 02:08:53 UTC
From: Joe
Topic: 8514 Message: 8536
Attachments: 1 described; binary payloads are missing from this source WARC

will do.

The Original Rolling Ball Clock
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>>>> Joe WB9SBD
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8537. Re: [GPSL] Static Pressure test on 100G balloon [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 02:58:29 UTC
From: Mike Manes
Topic: 8470 Message: 8537

Hi Jerry,

Great experiment.

What's worrisome is that we typically fill for a 100K' burst, where the balloon volume is 100X that at sea level. So for that 100 gm baq, that would mean a fill volume of 75/100 = 0.75 cuft. At that volume, the pressure is on the order of 3 times that just prior to burst. And at 7.5 cuft, which would be the volume at about 50K', the pressure has only dropped to a little under 2x the burst pressure.

That bodes ill for using a sharp rise in pressure to detect an impending burst. Now that model may not play out with a larger balloon, so I look forward to your 600 gm results.

For an interior fill site, you might see if you could get into a high school or college gym or field house - or just do it outside on a nice calm morning.

73 de Mike W5VSI

On 9/12/2010 18:13, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> I have my differential pressure transducers, 100G balloons, and a way to
> measure the balloon diameter so I did my burst test on a 100G balloon today.
>
> I have attached the graph but here it is if it doesn't make it:
> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/100G%20Balloon%20Graph.jpg
>
> And here is the spreadsheet:
> http://dl.dropbox.com/u/9446302/BalloonBurstTest1/Balloon_1_100G.xlsx
>
> My setup to measure the diameter was 2 laser pointers and a digital
> protractor. Point the 2 laser pointers at the outer edge of the balloon from a
> known distance, add some simple math and you have the volume. My fill rate was
> constant (After the initial pause at the beginning) and the measurements look
> like they were surprisingly close.
>
> As you can see this one started with a high pressure that dropped quickly
> followed by a slow decline. At the end it started back up slightly but the
> pressure was pretty flat for most of the time at just under 0.03PSI.
>
> I am still looking for a building to do the 600G balloon in. If you know of a
> place around Phoenix let me know.
>

> Jerry
>
>
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/248769468/item/686150683/view>
> 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/248769468/item/686150683/view>
>
>

--
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A. Einstein

8538. Looking Up

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 17:12:54 UTC
From: jmhannnon
Topic: 8538 Message: 8538

If I wanted to have a balloon flight with a sensor looking straight up and not seeing a balloon how could one do this?

Jim Hannon

8539. ARHAB Flight Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-17 17:36:32 UTC
From: Keith Kaiser
Topic: 8539 Message: 8539

I see a lot of references to flights that I have not been asked to post on the announcement page. For example iHAB has now announced an Oct. 2 launch which I know nothing about.

My request to all of you is this. If you see reference to a flight that has not been posted on arhab.org please send them a request to fill out the form and announce it to the rest of the world. By far our announcement page is looked at by more people then see just the ballooning Yahoo group or any other single group online. So best coverage and best for us is if they send me the post.

For reference, here are the key web sites;
Announcements: http://arhab.org (select the tab) or direct at;
http://www.arhab.org/ARHABlaunchannouncements.html

The form they should fill out is at; http://arhab.org on the appropriate tab.

Thanks for your help on this guys.

If you have any questions, please send eMail direct to me, off any given list.

8540. BASE 50 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-18 19:00:10 UTC
From: BASE
Topic: 8540 Message: 8540

Dear friends,

The 50th flight in the BASE program from DePauw was successfully completed today. Launch occurred at 10:03 am EDT from the roof of the Julian Science Center on the DePauw campus in Greencastle, Indiana. Maximum altitude was 88,600 feet. We had a nice visual sighting on the landing for the last three minutes or so of the flight. Landed in a vacant horse corral southeast of Franklin, Indiana near I-65. Our new experiment successfully recorded good data throughout the flight.

I heard the multi-mode transmitter operating on 147.45 MHz throughout the flight, but did not have any decode program running. I would appreciate direct contact from anyone that was able to copy and decode the transmissions.

The next flight will be next Saturday from the Centennial Campout of the Heart of America Council of the Boy Scouts from Camp Naish near Bonner Springs, Kansas.

Thanks for your support,
Howard, KC9QBN

8541. Comparison of 3 100G balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-18 23:39:56 UTC
From: Jerry Gable
Topic: 8541 Message: 8541
Attachments: 1 described; binary payloads are missing from this source WARC

I wasn't going to post this but I find it fascinating.

I was prepping the equipment to pop a 600G balloon next week and popped 3 100G balloons to test it. The graph of the 3 balloon's pressure is attached. The fill rate is much faster than before but it was the same for all 3 of these balloons.

What is amazing is how close the curves follow each other. The burst times are significantly different and I don't understand that. These are surplus balloons so maybe that explains it.

Anyhow, I think I am ready to try the big balloon next week.

8542. Re: [GPSL] Comparison of 3 100G balloons [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-19 01:09:42 UTC
From: Joe
Topic: 8541 Message: 8542
Attachments: 1 described; binary payloads are missing from this source WARC

That is intresting!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/18/2010 6:39 PM, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> I wasn't going to post this but I find it fascinating.
>
> I was prepping the equipment to pop a 600G balloon next week and
> popped 3 100G balloons to test it. The graph of the 3 balloon's
> pressure is attached. The fill rate is much faster than before but it
> was the same for all 3 of these balloons.
>
> What is amazing is how close the curves follow each other. The burst
> times are significantly different and I don't understand that. These
> are surplus balloons so maybe that explains it.
>
> Anyhow, I think I am ready to try the big balloon next week.
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 3 - 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1315786359/item/500041087/view>
> 3 - 100G Balloon Graph.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/1315786359/item/500041087/view>
>
>

8543. Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-19 16:39:25 UTC
From: L. Paul Verhage
Topic: 6119 Message: 8543

Did someone tell me they could help me track my balloon I'll launch for the scouts this Saturday in KC?

--
Onwards and Upwards,
Paul

8544. Re: [GPSL] Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-19 18:30:37 UTC
From: Keith Kaiser
Topic: 6119 Message: 8544

I do have a 3 full teams of chase and recovery crews for our balloons.

All their names and calls are on the announcement web page. If there are others, I'll list them too. I'm sure more eyes are better than not enough.

On Sep 19, 2010, at 11:39 AM, L. Paul Verhage wrote:

>
> Did someone tell me they could help me track my balloon I'll launch for the scouts this Saturday in KC?
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

8545. Re: [GPSL] Comparison of 3 100G balloons [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-19 20:40:34 UTC
From: Michael Willett
Topic: 8541 Message: 8545

Two of the balloons exhibit a hint of increased pressure prior to burst.
I will be curious if the 600gr balloon shows a more pronounced increase
as we have seen in the 1200gr. balloons.

Very interesting tests, I am enjoying your exploration into this area
very much!

--Michael
K5NOT

On 9/18/2010 6:39 PM, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
> I wasn't going to post this but I find it fascinating.
>
> I was prepping the equipment to pop a 600G balloon next week and
> popped 3 100G balloons to test it. The graph of the 3 balloon's
> pressure is attached. The fill rate is much faster than before but it
> was the same for all 3 of these balloons.
>
> What is amazing is how close the curves follow each other. The burst
> times are significantly different and I don't understand that. These
> are surplus balloons so maybe that explains it.
>
> Anyhow, I think I am ready to try the big balloon next week.
>

8546. Re: [Balloon_Sked] WB8ELK pinhole floater flight today Sunday from AL

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-19 21:01:51 UTC
From: Michael Willett
Topic: 8546 Message: 8546

Bill could be rather busy, so I will throw this out on the net, pardon me if my info is incorrect... I don't see it airborne yet, but here is Bill's link to the tracker he often uses:

http://spacenear.us/tracker/

and for APRS,

http://aprs.fi/?call=wb8elk-10%2Cwb8elk-11&mt=roadmap&z=11&timerange=3600

Should catch his normal flight configurations for both the -10 and 11.

--Michael K5NOT

8547. Surprise Automotive X Prize winners a nnounced • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-20 04:05:19 UTC
From: Mike Manes
Topic: 8547 Message: 8547

See? I've been tellin' youse guys that things should be made
as light as possible (but not more so) :=P.

73 de Mike W5VSI
CTO EOSS

http://www.theregister.co.uk/2010/09/17/automotive_x_prize/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8548. WB8ELK pinhole floater on the ground now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-20 07:48:00 UTC
From: wb8elk@aol.com
Topic: 8548 Message: 8548

After a very interesting 4-hour flight, the pinhole floater is on the ground near Blountsville, AL....about 35 miles SE of the launchsite. Check out the graph below the map on: http://spacenear.us/tracker and you'll see an ascent rate and descent rate curve that you don't get to see very often. Apparently the 1/16" pinhole is too large for a 600 gram balloon (the main purpose of this flight). I made it up to about 39,000 feet and came down almost the same descent speed as the very slow ascent.

It should be quite a sight to see it standing out there with the balloon intact in a cow pasture when the Sun comes up....hopefully someone other than a cow will see it.

- Bill WB8ELK

8549. Re: [Balloonatics] WB8ELK pinhole floater on the ground now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-20 12:20:07 UTC
From: Michael Willett
Topic: 8548 Message: 8549

I would venture a guess here that the 600gr balloon may never reach a near-zero pressure state internally, and therefore will have a fairly constant leak rate throughout the flight. The 1200gr and possibly 3000gr balloons likely do reach a near zero pressure state (or less) and therefore "float" more since the pressure is less and the pin hole constant,outflow will be less. I think the 600gr will need the valve system we've both been toying with for a good float and return.

I hope you are right about the cow pasture, I zoomed in on the last coordinates shown on tracker using the satellite view, and it looks like you might have some tree challenges! :)

Enjoyed it Bill! Great flight and tracking!

--Michael
K5NOT

On 9/20/2010 2:48 AM, wb8elk@... wrote:
>
>
> After a very interesting 4-hour flight, the pinhole floater is on the
> ground near Blountsville, AL....about 35 miles SE of the launchsite.
> Check out the graph below the map on: http://spacenear.us/tracker and
> you'll see an ascent rate and descent rate curve that you don't get to
> see very often. Apparently the 1/16" pinhole is too large for a 600
> gram balloon (the main purpose of this flight). I made it up to about
> 39,000 feet and came down almost the same descent speed as the very
> slow ascent.
>
> It should be quite a sight to see it standing out there with the
> balloon intact in a cow pasture when the Sun comes up....hopefully
> someone other than a cow will see it.
>
> - Bill WB8ELK
>
> [Non-text portions of this message have been removed]
>
>

8550. Re: [GPSL] Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-21 02:56:05 UTC
From: Mike Bogard
Topic: 6119 Message: 8550

I am going to help do chase and recovery and I see that Keith has added my name and call to the Chase/recovery list. Is anyone launching going to use a Garmin Rino. I also saw a prediction for the landing site for those balloons and I do not seem to find it now. Where did it go or is my old age really getting to me? Thanks Mike KDØFW

8551. Re: [GPSL] Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-21 03:17:40 UTC
From: Keith Kaiser
Topic: 6119 Message: 8551

I've added the NSV flight projection link to the announcement page at;
http://www.arhab.org/ARHABlaunchannouncements.html

No Rinos will be hurt during the flight of these balloons...or used for that matter.

On Sep 20, 2010, at 9:56 PM, Mike Bogard wrote:

>
> I am going to help do chase and recovery and I see that Keith has added my name and call to the Chase/recovery list. Is anyone launching going to use a Garmin Rino. I also saw a prediction for the landing site for those balloons and I do not seem to find it now. Where did it go or is my old age really getting to me? Thanks Mike KDØFW
>
>

8552. Re: [GPSL] Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-21 13:14:50 UTC
From: L. Paul Verhage
Topic: 6119 Message: 8552

Will anyone have tracking equipment they can set up at my launch site?

I have a mobile set up that won't work well for scouts.

Paul

On Mon, Sep 20, 2010 at 10:17 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> I've added the NSV flight projection link to the announcement page at;
> http://www.arhab.org/ARHABlaunchannouncements.html
>
> No Rinos will be hurt during the flight of these balloons...or used for
> that matter.
>
> On Sep 20, 2010, at 9:56 PM, Mike Bogard wrote:
>
>
>
>
> I am going to help do chase and recovery and I see that Keith has added my
> name and call to the Chase/recovery list. Is anyone launching going to use a
> Garmin Rino. I also saw a prediction for the landing site for those balloons
> and I do not seem to find it now. Where did it go or is my old age really
> getting to me? Thanks Mike KDØFW
>
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

8553. Re: [GPSL] Saturday's Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-21 17:53:38 UTC
From: Mike Bogard
Topic: 6119 Message: 8553

My equipment is packed in pretty tight in my truck and wouldn't work well for the scouts at all. Sorry Mike

8554. New Balloon Group - LVL1 White Star Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-22 17:12:45 UTC
From: dbowen1
Topic: 8554 Message: 8554

Hi Guys,
     I'd like to introduce a new group to the balloon arena, the LVL1 White Star Balloon team. LVL1 is a new Hackerspace in Louisville KY, with about 60 members, see http://lvl1.org. As hackerspaces often do, they had many a show-and-tell event to share your fun personal projects. I've participated in these, and as I gave them tales of trans-atlantic ballooning while waving a Spirit of Knoxville flight computer board in the air, and they were hooked. They are quite a talented bunch, so I've not dissuaded them from their goal to beat the SNOX distance record this winter.

The plan is such: A simple latex or two this fall to work out the kinks of ATC and the launch team. Then 4 to 8 ZP flights from Dec 2010 to April 2011.

Aviation safety is a big concern for TA flights. Cornell will be flying this year strictly above 60k ft to stay out of controlled airspace. We can't afford a balloon that can do that - 100,000+ cu ft. We plan to be right down among 'em in the Jet Stream, with a ~1000 cu ft ZP, much like the original SNOX TA balloons from Mark Caviezel. To ensure airplane safety, we will be providing the NAT-Tracks ATC with a very reliable stream of position reports. We will require two-way radio comms at all times with the balloon, to allow a dead-man switch cutdown. If the balloon doesn't hear from us frequently, it will cut itself down. If we stop receiving telemetry from the balloon, we stop pinging the balloon from the ground, which initiates cutdown

We are not going to use HF telemetry for the primary link. HF requires an extensive volunteer receiver network, and complex server side software that we just don't have the time to develop this year. We will be using a satellite data modem for the telemetry and command uplink. They have come down significantly in price, and are at the point of being an actual affordable option, quite comparable in cost to a kit 2m APRS transmitter. The Digi m10 is a mere $149, for example, and data service is estimated to be about $50/month through Orbcomm. The electrical specs are quite manageable on the m10: 5w transmit power, 1.5A @ 12v for maximum of 4 second TX bursts. Orbcomm requires only a VHF dipole or similar home-brew antenna.

Also, we've found an ebay auction selling some older satellite data modems for Orbcomm, which we're looking into:

http://cgi.ebay.com/NEW-OrbComm-Stellar-ST2500-Satellite-Data-Communicator-/160480811653?pt=LH_DefaultDomain_0&hash=item255d66da85

They're really heavy and power hungry, the bare circuitry is spec'd to weigh 7.5oz, and they're 2.8A @ 12v. BUT, they cost $50 each, and he has a bunch of them. I thought I'd let you all know, as it's quite a bit more functional than the findmespot for telemetry and uplink.

Thanks,
Dan

8555. Re: [GPSL] New Balloon Group - LVL1 White Star Balloons

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-23 02:30:56 UTC
From: ccccrnr@aim.com
Topic: 8554 Message: 8555

Way To Go Dan with LVL1 Hackerspace

it took me ~3years to get the idea to catch here in St Louis

maybe you can explain hackerspace to me sometime.... the St Louis Area is covered with Ham clubs, Linux SIGs, Unix users goups, robot clubs, CNC clubs on and on, and then last fall some guys decided to start their own "hackerspace" i don't see anything they have acheived but water down other groups by pulling bring minds from other cool projects. and i'm not sure they have done anything in nearly a year except grow fast in member numbers.

But i guess that is just how politics in St Louis goes 93 incorporated(each with mayor and councils) Cities in just St Louis County
there are dozens if not 100s+ repeaters on VHF & UHF (ARRL's idea of "regional PL" doesn't work here)

best of luck,
Carlton
-.- .. ....- -. .... -.- .. -. ----- .-.. .- -. -..

-----Original Message-----
From: dbowen1 <dbowen1@...>
To: Gpsl <gpsl@yahoogroups.com>
Cc: Balloon Sked <balloon_sked@yahoogroups.com>
Sent: Wed, Sep 22, 2010 8:12 am
Subject: [GPSL] New Balloon Group - LVL1 White Star Balloons

Hi Guys,
I'd like to introduce a new group to the balloon arena, the LVL1 White Star Balloon team. LVL1 is a new Hackerspace in Louisville KY, with about 60 members, see http://lvl1org. As hackerspaces often do, they had many a show-and-tell event to share your fun personal projects. I've participated in these, and as I gave them tales of trans-atlantic ballooning while waving a Spirit of Knoxville flight computer board in the air, and they were hooked. They are quite a talented bunch, so I've not dissuaded them from their goal to beat the SNOX distance record this winter.

The plan is such: A simple latex or two this fall to work out the kinks of ATC and the launch team. Then 4 to 8 ZP flights from Dec 2010 to April 2011.

Aviation safety is a big concern for TA flights. Cornell will be flying this year strictly above 60k ft to stay out of controlled airspace. We can't afford a balloon that can do that - 100,000+ cu ft. We plan to be right down among 'em in the Jet Stream, with a ~1000 cu ft ZP, much like the original SNOX TA balloons from Mark Caviezel. To ensure airplane safety, we will be providing the NAT-Tracks ATC with a very reliable stream of position reports. We will require two-way radio comms at all times with the balloon, to allow a dead-man switch cutdown. If the balloon doesn't hear from us frequently, it will cut itself down. If we stop receiving telemetry from the balloon, we stop pinging the balloon from the ground, which initiates cutdown.

We are not going to use HF telemetry for the primary link. HF requires an extensive volunteer receiver network, and complex server side software that we just don't have the time to develop this year. We will be using a satellite data modem for the telemetry and command uplink. They have come down significantly in price, and are at the point of being an actual affordable option, quite comparable in cost to a kit 2m APRS transmitter The Digi m10 is a mere $149, for example, and data service is estimated to be about $50/month through Orbcomm. The electrical specs are quite manageable on the m10: 5w transmit power, 1.5A @ 12v for maximum of 4 second TX bursts. Orbcomm requires only a VHF dipole or similar home-brew antenna.

Also, we've found an ebay auction selling some older satellite data modems for Orbcomm, which we're looking into:

http://cgi.ebay.com/NEW-OrbComm-Stellar-ST2500-Satellite-Data-Communicator-/160480811653?pt=LH_DefaultDomain_0&hash=item255d66da85

They're really heavy and power hungry, the bare circuitry is spec'd to weigh 7.5oz, and they're 2.8A @ 12v. BUT, they cost $50 each, and he has a bunch of them. I thought I'd let you all know, as it's quite a bit more functional than the findmespot for telemetry and uplink.

Thanks,
Dan

8556. Re: [GPSL] CHDK - Camera/Servo Control

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-25 02:30:04 UTC
From: Mike Manes
Topic: 8453 Message: 8556

Interesting, using the focus assist lamp as an output device under
script control. The EOSS SamCam2 uses the status LEDs near the
viewfinder to detect when the camera shoots. This sig goes to a
PICAXE8 that drives an elevation servo to next of 3 positions:
down, horizon and up.

What would be cool would be some means to set up a binary input
to the camera that could be read by the script - one that didn't
involve bringing out button contacts, of course. Maybe via the
USB port?

73 de Mike W5VSI

On 9/11/2010 16:36, HarryM wrote:
>
>
> Here's a couple of interesting links to
> camera/servo control using uBasic, SDM
> and a Canon camera.
> http://www.gentles.ltd.uk/clickpan/
> http://www.zenoshrdlu.com/clickpansdm/
> SDM & Others
> http://stereo.jpn.org/eng/
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8557. DX barrier of 500 miles from a balloon has been broken

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-25 19:53:32 UTC
From: wb8elk@aol.com
Topic: 8557 Message: 8557

I successfully copied the 20 milliwatt DominoEX22 transmission (as well as a bit of the Hellscreiber) from the W9YJ BASE 51 payload (W0A-11 on APRS) today that was launched from the Boy Scout event in the Kansas City area. I was able to hear the signal on 147.453 USB well enough to get sequence number 166 at around 18:00 UTC just prior to the burst as well as a couple of other partial frames of data....I had copy from 1758 to 1804 UTC on it...burst occured around 1801 UTC. The APRS callsign on this balloon was: W0A-11.

Distance to the balloon was about 506 miles. I couldn't hear it on FM, but SSB was quite a nice signal for a couple of minutes.

I was using a 4 element beam on a 10 foot tall tripod with a TS-2000 for the receiver....however, it really is equivalent to a 510 foot tall antenna tower since I'm 500 feet above average terrain here on my mountaintop QTH.

W9YJ (W0A-11 BASE 41) DominoEX22 reception from WB8ELK in Falkville, AL (34.4086 -86.813) at 1758 to 1804 UTC - burst occured at near 1801 UTC....battery voltage was 5.67 volts and internal temperature was -7 deg C....the lat/lon was somewhat garbled, but comparing it to the W0A-11 APRS data the position was: 38d 53.49m 94d 02.38m at 95,712 feet.

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- Bill WB8ELK

=

8558. Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-26 22:28:29 UTC
From: Jerry Gable
Topic: 8558 Message: 8558
Attachments: 1 described; binary payloads are missing from this source WARC

Murphy and his laws were out in force for my 600G balloon burst today. What could go wrong today did.

1. The 35mW green lasers I was using to measure the balloon's diameter were not visible once the full sun started to hit the balloon.

2. A 600G balloon gets really big (see attached image). Even a slight wind pushes it around. As the wind picked up it eventually pulled it off of the PVC fill pipe and it slowly floated away to the west (~100 SCF of He gave it just enough lift).

3. Oh well I at least would have some data at for the first part of the fill. When I got home I found out I had forgotten to enable the channel on the logging software. I have 46 minutes of 0.0v on 8 channels. Why would anyone write software that defaults to all channels off and doesn't show anything while it is recording?

So my experiment will have to wait until my next launch. I plan on measuring temp and pressure inside the balloon on that flight.

Jerry

8559. Re: [GPSL] Murphy helped with the balloon burst test today. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-26 23:09:48 UTC
From: Joe
Topic: 8558 Message: 8559
Attachments: 1 described; binary payloads are missing from this source WARC

Wow,,,

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/26/2010 5:28 PM, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> Murphy and his laws were out in force for my 600G balloon burst
> today. What could go wrong today did.
>
> 1. The 35mW green lasers I was using to measure the balloon's diameter
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>
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> channels. Why would anyone write software that defaults to all
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>
> So my experiment will have to wait until my next launch. I plan on
> measuring temp and pressure inside the balloon on that flight.
>
> Jerry
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 600G_BurstTest.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
> 600G_BurstTest.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
>
>

8560. Re: [GPSL] Murphy helped with the balloon burst test today. [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 04:29:37 UTC
From: Mike Manes
Topic: 8558 Message: 8560

Bummer, Jerry,

Screw-type stainless steel hose clamps work quite well to secure the neck
of a balloon to the fill tube; we use two, just for belt and suspenders.

If you're filling at sunrise on a clear morning, you could use the shadow
of the balloon on a vertical wall to measure its diameter. The parallax
error will be negligible. Or you could use a spot light with measured
between it and the balloon and the balloon and the wall, plus a little
trig, to accomplish the same end.

73 de Mike W5VSI

On 9/26/2010 16:28, Jerry Gable wrote:
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
> Murphy and his laws were out in force for my 600G balloon burst today. What
> could go wrong today did.
>
> 1. The 35mW green lasers I was using to measure the balloon's diameter were
> not visible once the full sun started to hit the balloon.
>
> 2. A 600G balloon gets really big (see attached image). Even a slight wind
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> fill pipe and it slowly floated away to the west (~100 SCF of He gave it just
> enough lift).
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> 3. Oh well I at least would have some data at for the first part of the fill.
> When I got home I found out I had forgotten to enable the channel on the
> logging software. I have 46 minutes of 0.0v on 8 channels. Why would anyone
> write software that defaults to all channels off and doesn't show anything
> while it is recording?
>
> So my experiment will have to wait until my next launch. I plan on measuring
> temp and pressure inside the balloon on that flight.
>
> Jerry
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 600G_BurstTest.jpg
> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
> 600G_BurstTest.jpg

> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8561. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 13:25:09 UTC
From: Joe
Topic: 8558 Message: 8561
Attachments: 1 described; binary payloads are missing from this source WARC

I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike on small flights we use 1 clamp, on heavier flights like 6 pounds of lift or more we use 2. I cringe every time I see videos of other balloon groups using duct tape anywhere on the balloon for any reason. Duct tape is yes very sticky, and will stick to almost anything. BUT it looses it's grip very fast on anything that can stretch. It acts just like those "Command" hangers from 3M. if they aren't stretched they hold tons of weight. But stretch the substrate and they loose all their grip and fall off. Quite ingenious actually. But very bad for wanting to attach anything to a balloon.

And Mikes suggestion of the sun up shadow, or a simple floodlight is a great suggestion.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/26/2010 11:29 PM, Mike Manes wrote:
> Bummer, Jerry,
>
> Screw-type stainless steel hose clamps work quite well to secure the neck
> of a balloon to the fill tube; we use two, just for belt and suspenders.
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> If you're filling at sunrise on a clear morning, you could use the shadow
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> between it and the balloon and the balloon and the wall, plus a little
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> 73 de Mike W5VSI
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> On 9/26/2010 16:28, Jerry Gable wrote:
>> [Attachment(s)<#TopText> from Jerry Gable included below]
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>> 1. The 35mW green lasers I was using to measure the balloon's diameter were
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8562. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 13:41:42 UTC
From: Keith Kaiser
Topic: 8558 Message: 8562

This past weekend, I launched or help launch two balloons. One (mine) I used a hose clamp like I always do. The other we used duct tape, it did a great job, I saw no indication of it pulling away. I will admit I think the duct tape is more work, and messy, but I saw nothing that said it wasn't a viable way to do it.

On Sep 27, 2010, at 8:25 AM, Joe wrote:

> I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike on small flights we use 1 clamp, on heavier flights like 6 pounds of lift or more we use 2. I cringe every time I see videos of other balloon groups using duct tape anywhere on the balloon for any reason. Duct tape is yes very sticky, and will stick to almost anything. BUT it looses it's grip very fast on anything that can stretch. It acts just like those "Command" hangers from 3M. if they aren't stretched they hold tons of weight. But stretch the substrate and they loose all their grip and fall off. Quite ingenious actually. But very bad for wanting to attach anything to a balloon.
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8563. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 14:11:07 UTC
From: Mark Conner
Topic: 8558 Message: 8563

Duct tape can work, if done carefully and the surfaces you're dealing with aren't damp and/or cold. However, this can happen if one or both conditions are met:

http://www.youtube.com/watch?v=FE8SPugjtwM

This was the second time this happened to us, the first was in 2001 and we thought it was a fluke. Since this instance, we've gone to hose clamps (the thumb-screw pop-open type so we have one less tool to fumble with) and we pull on the neck firmly before filling to assure ourselves the clamps are tight enough.

73 de Mark N9XTN

On Mon, Sep 27, 2010 at 08:41, Keith Kaiser <wa0tjt@...> wrote:

>
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8564. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 14:57:30 UTC
From: Jerry Gable
Topic: 8558 Message: 8564
Attachments: 1 described; binary payloads are missing from this source WARC

We had a screw type hose clamp holding the balloon on. At the time it pulled off it was dragging the table and a cement block around pretty easily. I was holding the table down so and the neck was 2-3x its normal length. It was only a matter of time before the balloon hit something sharp enough to pop it or it ripped off the neck.

The lasers were easy to see in noon day sun but the morning sun reflecting off the white balloon was too much.

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Mike Manes <mrmanes@...>; Jerry Gable <jerrygable@...>
Sent: Mon, September 27, 2010 6:25:09 AM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike on small flights we use 1 clamp, on heavier flights like 6 pounds of lift or more we use 2. I cringe every time I see videos of other balloon groups using duct tape anywhere on the balloon for any reason. Duct tape is yes very sticky, and will stick to almost anything. BUT it looses it's grip very fast on anything that can stretch. It acts just like those "Command" hangers from 3M. if they aren't stretched they hold tons of weight. But stretch the substrate and they loose all their grip and fall off. Quite ingenious actually. But very bad for wanting to attach anything to a balloon.

And Mikes suggestion of the sun up shadow, or a simple floodlight is a great suggestion.

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8565. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 15:23:55 UTC
From: Joe
Topic: 8558 Message: 8565
Attachments: 2 described; binary payloads are missing from this source WARC

was there anything left under the hose clamp?

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8566. BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 17:46:42 UTC
From: Keith Kaiser
Topic: 8566 Message: 8566

Thanks to Howard and Paul we were able to launch three HAB's this past Saturday from the Heart of America Councils BSA Centennial Campout. Two of the balloons Howard's and my own we launched just after 11a.m, a heavy storm was on its way in and we wanted to get out before it arrived. Howard was able to launch at about 11am, I got off the ground about 11:20am, with the help of about 30 boys from Troop 24.

Later after the storm didn't appear, Paul was able to launch his balloon about 1:30pm. It was just starting to rain when it left the ground, and by the time I got back to my computer to track, it was poring. When I say pouring I mean pouring, the rain came down in buckets. But the balloon was up.

11,500 boys and adults took place in this weekends activities, everyone I talked to says they saw at least one, in some cases two and a few all three balloons. Surely this is the largest attended HAB launch in history.

Two of the balloons have been recovered, the third is in a known location. But the rain had moved East by touchdown and the balloon landed in the middle of the largest corn field I have ever seen. Deb and her team of chase/recovery people did a superb job but I told them to go home, we'd pick it up another (dryer) day.

I have no way to thank all the people who lent support for this activity but I want to single out Howard Brooks for driving all the way to Kansas from Indiana. And to Paul for driving all the way in from Topeka as well. Both guys had to put up with remote parking, bus drivers who got lost and thousands of boys asking questions like what is the balloon made of. It's also very important that I thank the chase/recovery teams of Jerome Tonneson, Mike Bogard and his girl friend Deloris, John Morell, Jim Bair, and of course their fearless leader and my most wonderful wife Deb Kaiser. If I forgot anyone, shame on me but please know you too are being thanked.

8567. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 17:57:46 UTC
From: Jerry Gable
Topic: 8558 Message: 8567
Attachments: 2 described; binary payloads are missing from this source WARC

The balloon slid of the PVC pipe cleanly. The clamp stayed with the balloon. I thought the clamp was tight but I guess not tight enough.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Jerry Gable <jerrygable@...>
Sent: Mon, September 27, 2010 8:23:55 AM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

was there anything left under the hose clamp?

The Original Rolling Ball Clock
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>Sent: Mon, September 27, 2010 6:25:09 AM
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8568. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 18:30:27 UTC
From: Joe
Topic: 8558 Message: 8568
Attachments: 3 described; binary payloads are missing from this source WARC

ahhhh, yeah thats why we use two, and soo tight you think the clamp
is just about to strip out. the latex is squeezing out in the open
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Joe

The Original Rolling Ball Clock
Idle Tyme
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On 9/27/2010 12:57 PM, Jerry Gable wrote:
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>> Like Mike on small flights we use 1 clamp, on heavier flights like 6
>> pounds of lift or more we use 2. I cringe every time I see videos of
>> other balloon groups using duct tape anywhere on the balloon for any
>> reason. Duct tape is yes very sticky, and will stick to almost
>> anything. BUT it looses it's grip very fast on anything that can
>> stretch. It acts just like those "Command" hangers from 3M. if they
>> aren't stretched they hold tons of weight. But stretch the substrate
>> and they loose all their grip and fall off. Quite ingenious
>> actually. But very bad for wanting to attach anything to a balloon.
>>
>> And Mikes suggestion of the sun up shadow, or a simple floodlight is
>> a great suggestion.
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://Idle-Tyme.com>
>> http://www.idle-tyme.com
>>
>> On 9/26/2010 11:29 PM, Mike Manes wrote:
>>> Bummer, Jerry,
>>>
>>> Screw-type stainless steel hose clamps work quite well to secure the neck
>>> of a balloon to the fill tube; we use two, just for belt and suspenders.
>>>
>>> If you're filling at sunrise on a clear morning, you could use the shadow
>>> of the balloon on a vertical wall to measure its diameter. The parallax
>>> error will be negligible. Or you could use a spot light with measured
>>> between it and the balloon and the balloon and the wall, plus a little
>>> trig, to accomplish the same end.
>>>
>>> 73 de Mike W5VSI
>>>
>>> On 9/26/2010 16:28, Jerry Gable wrote:
>>>> [Attachment(s)<#TopText> from Jerry Gable included below]
>>>>
>>>> Murphy and his laws were out in force for my 600G balloon burst today. What
>>>> could go wrong today did.
>>>>
>>>> 1. The 35mW green lasers I was using to measure the balloon's diameter were
>>>> not visible once the full sun started to hit the balloon.
>>>>
>>>> 2. A 600G balloon gets really big (see attached image). Even a slight wind
>>>> pushes it around. As the wind picked up it eventually pulled it off of the PVC
>>>> fill pipe and it slowly floated away to the west (~100 SCF of He gave it just

>>>> enough lift).
>>>>
>>>> 3. Oh well I at least would have some data at for the first part of the fill.
>>>> When I got home I found out I had forgotten to enable the channel on the
>>>> logging software. I have 46 minutes of 0.0v on 8 channels. Why would anyone
>>>> write software that defaults to all channels off and doesn't show anything
>>>> while it is recording?
>>>>
>>>> So my experiment will have to wait until my next launch. I plan on measuring
>>>> temp and pressure inside the balloon on that flight.
>>>>
>>>> Jerry
>>>>
>>>> Attachment(s) from Jerry Gable
>>>>
>>>> 1 of 1 Photo(s)
>>>>
>>>> 600G_BurstTest.jpg
>>>>
<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
>>>> 600G_BurstTest.jpg
>>>>
<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
>>>>
>>>>

8569. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 18:34:57 UTC
From: Mark Conner
Topic: 8558 Message: 8569
Attachments: 2 described; binary payloads are missing from this source WARC

We cut a ring made from a PVC coupler and glued it to the end of the fill pipe, then clamp below that. That keeps the clamp from sliding off the end. Before gluing that ring on, we also dipped the end of the PVC into a can of Plasti-Dip which probably would be enough by itself to prevent slippage.

73 de Mark N9XTN

On Mon, Sep 27, 2010 at 12:57, Jerry Gable <jerrygable@...> wrote:

> The balloon slid of the PVC pipe cleanly. The clamp stayed with the
> balloon. I thought the clamp was tight but I guess not tight enough.
>
> ------------------------------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Jerry Gable <jerrygable@...>
> *Sent:* Mon, September 27, 2010 8:23:55 AM
>
> *Subject:* Re: [GPSL] Murphy helped with the balloon burst test today.
>
> was there anything left under the hose clamp?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 9/27/2010 9:57 AM, Jerry Gable wrote:
>
> We had a screw type hose clamp holding the balloon on. At the time it
> pulled off it was dragging the table and a cement block around pretty
> easily. I was holding the table down so and the neck was 2-3x its normal
> length. It was only a matter of time before the balloon hit something sharp
> enough to pop it or it ripped off the neck.
>
> The lasers were easy to see in noon day sun but the morning sun reflecting
> off the white balloon was too much.
>
> Jerry
>
> ------------------------------
> *From:* Joe <nss@...> <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Mike Manes <mrmanes@...> <mrmanes@...>; Jerry Gable

> <jerrygable@...> <jerrygable@...>
> *Sent:* Mon, September 27, 2010 6:25:09 AM
> *Subject:* Re: [GPSL] Murphy helped with the balloon burst test today.
>
> I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike
> on small flights we use 1 clamp, on heavier flights like 6 pounds of lift
> or more we use 2. I cringe every time I see videos of other balloon groups
> using duct tape anywhere on the balloon for any reason. Duct tape is yes
> very sticky, and will stick to almost anything. BUT it looses it's grip
> very fast on anything that can stretch. It acts just like those "Command"
> hangers from 3M. if they aren't stretched they hold tons of weight. But
> stretch the substrate and they loose all their grip and fall off. Quite
> ingenious actually. But very bad for wanting to attach anything to a
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>
> And Mikes suggestion of the sun up shadow, or a simple floodlight is a
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> Joe WB9SBD
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> Bummer, Jerry,
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> error will be negligible. Or you could use a spot light with measured
> between it and the balloon and the balloon and the wall, plus a little
> trig, to accomplish the same end.
>
> 73 de Mike W5VSI
>
> On 9/26/2010 16:28, Jerry Gable wrote:
>
> [Attachment(s) <#TopText> from Jerry Gable included below]
>
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> could go wrong today did.
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> 1. The 35mW green lasers I was using to measure the balloon's diameter were
> not visible once the full sun started to hit the balloon.
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> 2. A 600G balloon gets really big (see attached image). Even a slight wind
> pushes it around. As the wind picked up it eventually pulled it off of the PVC
> fill pipe and it slowly floated away to the west (~100 SCF of He gave it just
> enough lift).
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> 3. Oh well I at least would have some data at for the first part of the fill.
> When I got home I found out I had forgotten to enable the channel on the
> logging software. I have 46 minutes of 0.0v on 8 channels. Why would anyone
> write software that defaults to all channels off and doesn't show anything
> while it is recording?
>
> So my experiment will have to wait until my next launch. I plan on measuring
> temp and pressure inside the balloon on that flight.
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> Jerry
>
> Attachment(s) from Jerry Gable
>
> 1 of 1 Photo(s)
>
> 600G_BurstTest.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/
1440327895/view>
<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
> 600G_BurstTest.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/
1440327895/view>
<http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
>
>

8570. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 19:32:49 UTC
From: L. Paul Verhage
Topic: 8566 Message: 8570

It was good fun.

It looks like I'll be doing a launch for Washburn in October (latter half). I'll let everyone know the day and I'd like to invite everyone out to chase (cuz I'm going to need chase help).

Paul

On Mon, Sep 27, 2010 at 12:46 PM, Keith Kaiser <wa0tjt@...> wrote:

> Thanks to Howard and Paul we were able to launch three HAB's this past
> Saturday from the Heart of America Councils BSA Centennial Campout. Two of
> the balloons Howard's and my own we launched just after 11a.m, a heavy storm
> was on its way in and we wanted to get out before it arrived. Howard was
> able to launch at about 11am, I got off the ground about 11:20am, with the
> help of about 30 boys from Troop 24.
>
> Later after the storm didn't appear, Paul was able to launch his balloon
> about 1:30pm. It was just starting to rain when it left the ground, and by
> the time I got back to my computer to track, it was poring. When I say
> pouring I mean pouring, the rain came down in buckets. But the balloon was
> up.
>
> 11,500 boys and adults took place in this weekends activities, everyone I
> talked to says they saw at least one, in some cases two and a few all three
> balloons. Surely this is the largest attended HAB launch in history.
>
> Two of the balloons have been recovered, the third is in a known location.
> But the rain had moved East by touchdown and the balloon landed in the
> middle of the largest corn field I have ever seen. Deb and her team of
> chase/recovery people did a superb job but I told them to go home, we'd pick
> it up another (dryer) day.
>
> I have no way to thank all the people who lent support for this activity
> but I want to single out Howard Brooks for driving all the way to Kansas
> from Indiana. And to Paul for driving all the way in from Topeka as well.
> Both guys had to put up with remote parking, bus drivers who got lost and
> thousands of boys asking questions like what is the balloon made of. It's
> also very important that I thank the chase/recovery teams of Jerome
> Tonneson, Mike Bogard and his girl friend Deloris, John Morell, Jim Bair,
> and of course their fearless leader and my most wonderful wife Deb Kaiser.
> If I forgot anyone, shame on me but please know you too are being thanked.
>
>
>
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>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8571. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 19:34:53 UTC
From: Joe
Topic: 8566 Message: 8571
Attachments: 1 described; binary payloads are missing from this source WARC

Wheres washburn?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/27/2010 2:32 PM, L. Paul Verhage wrote:
>
>
> It was good fun.
> It looks like I'll be doing a launch for Washburn in October (latter
> half). I'll let everyone know the day and I'd like to invite everyone
> out to chase (cuz I'm going to need chase help).
> Paul
>
> On Mon, Sep 27, 2010 at 12:46 PM, Keith Kaiser <wa0tjt@...
> <mailto:wa0tjt@...>> wrote:
>
> Thanks to Howard and Paul we were able to launch three HAB's this
> past Saturday from the Heart of America Councils BSA Centennial
> Campout. Two of the balloons Howard's and my own we launched just
> after 11a.m, a heavy storm was on its way in and we wanted to get
> out before it arrived. Howard was able to launch at about 11am, I
> got off the ground about 11:20am, with the help of about 30 boys
> from Troop 24.
>
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> balloon about 1:30pm. It was just starting to rain when it left
> the ground, and by the time I got back to my computer to track, it
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> Deb and her team of chase/recovery people did a superb job but I
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> important that I thank the chase/recovery teams of Jerome
> Tonneson, Mike Bogard and his girl friend Deloris, John Morell,
> Jim Bair, and of course their fearless leader and my most
> wonderful wife Deb Kaiser. If I forgot anyone, shame on me but
> please know you too are being thanked.
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8572. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 20:24:55 UTC
From: BASE
Topic: 8566 Message: 8572
Attachments: 1 described; binary payloads are missing from this source WARC

Washburn is in Topeka, Kansas. (www.washburn.edu)

--- On Mon, 9/27/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] BSA Centennial Balloon Launches
To: GPSL@yahoogroups.com
Cc: "L. Paul Verhage" <nearsys@...>, "Deb Kaiser" <dlkaiser@...>, "John Morelli" <jjm2@sbcglobal.net>, "Jerome Tonneson" <w0jrt@...>, "Mike Bogard" <kd0fw@att.net>
Date: Monday, September 27, 2010, 3:34 PM

Wheres washburn?

The Original Rolling
Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 9/27/2010 2:32 PM, L. Paul Verhage wrote:

It was good fun.

It looks like I'll be doing a launch for Washburn in October
(latter half). I'll let everyone know the day and I'd like to
invite everyone out to chase (cuz I'm going to need chase help).

Paul

On Mon, Sep 27, 2010 at 12:46 PM, Keith
Kaiser <wa0tjt@gmail.com>
wrote:

Thanks to Howard and Paul we were able to
launch three HAB's this past Saturday from the Heart of
America Councils BSA Centennial Campout. Two of the balloons
Howard's and my own we launched just after 11a.m, a heavy
storm was on its way in and we wanted to get out before it
arrived. Howard was able to launch at about 11am, I got off
the ground about 11:20am, with the help of about 30 boys from
Troop 24.

Later after the storm didn't appear, Paul was able to launch his balloon about 1:30pm. It was just starting to rain when it left the ground, and by the time I got back to my computer to track, it was poring. When I say pouring I mean pouring, the rain came down in buckets. But the balloon was up.

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Yahoo! Groups Links

http://groups.yahoo.com/group/GPSL/

Individual Email | Traditional

http://groups.yahoo.com/group/GPSL/join

(Yahoo! ID required)

GPSL-digest@yahoogroups.com

GPSL-fullfeatured@yahoogroups.com

GPSL-unsubscribe@yahoogroups.com

http://docs.yahoo.com/info/terms/

--

Onwards and Upwards,

Paul

8573. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 20:42:13 UTC
From: BASE
Topic: 8566 Message: 8573

Keith,
I truly enjoyed the day with the Scouts. Most of my help came from Troop 55 of Lawrence, Kansas. I had a few Scouts that made friendly bets (for animal crackers) about the landing points for the balloons.
I also want to thank Deb and her trackers. Mike, KD0FW, did a fantastic job of collecting my system and we have some very good data for our student research project at DePauw.
Bill, WB8ELK, already shared his success in copying the DominoEx transmission in Alabama. Did anyone else copy the 147.45 MHz signals? I am especially interested to see if others had trouble with copying the lat/long/altitude information.
I was surprised that I could get a 600 gram balloon to 95,700 feet while carrying four pounds of payload. That is the highest that our program has achieved for that size balloon.
Looks like we'll fly on Thursday (I'll get the form filled out).
Thanks for your support,Howard, KC9QBNBASE-DePauw

--- On Mon, 9/27/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@gmail.com>
Subject: [GPSL] BSA Centennial Balloon Launches
To: "gpsl" <GPSL@yahoogroups.com>
Cc: "Deb Kaiser" <dlkaiser@...>, "John Morelli" <jjm2@sbcglobal.net>, "Jerome Tonneson" <w0jrt@...>, "Mike Bogard" <kd0fw@att.net>
Date: Monday, September 27, 2010, 1:46 PM

Thanks to Howard and Paul we were able to launch three HAB's this past Saturday from the Heart of America Councils BSA Centennial Campout. Two of the balloons Howard's and my own we launched just after 11a.m, a heavy storm was on its way in and we wanted to get out before it arrived. Howard was able to launch at about 11am, I got off the ground about 11:20am, with the help of about 30 boys from Troop 24.

Later after the storm didn't appear, Paul was able to launch his balloon about 1:30pm. It was just starting to rain when it left the ground, and by the time I got back to my computer to track, it was poring. When I say pouring I mean pouring, the rain came down in buckets. But the balloon was up.

11,500 boys and adults took place in this weekends activities, everyone I talked to says they saw at least one, in some cases two and a few all three balloons. Surely this is the largest attended HAB launch in history.

Two of the balloons have been recovered, the third is in a known location. But the rain had moved East by touchdown and the balloon landed in the middle of the largest corn field I have ever seen. Deb and her team of chase/recovery people did a superb job but I told them to go home, we'd pick it up another (dryer) day.

I have no way to thank all the people who lent support for this activity but I want to single out Howard Brooks for driving all the way to Kansas from Indiana. And to Paul for driving all the way in from Topeka as well. Both guys had to put up with remote parking,

bus drivers who got lost and thousands of boys asking questions like what is the balloon made of. It's also very important that I thank the chase/recovery teams of Jerome Tonneson, Mike Bogard and his girl friend Deloris, John Morell, Jim Bair, and of course their fearless leader and my most wonderful wife Deb Kaiser. If I forgot anyone, shame on me but please know you too are being thanked.

8574. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-27 21:57:41 UTC
From: Joe
Topic: 8566 Message: 8574
Attachments: 1 described; binary payloads are missing from this source WARC

How much lift was at the nozzle of the balloon?

IE; Payload weight+ positive lift in other words how much lift was at
the neck of the balloon with nothing attached?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/27/2010 3:42 PM, BASE wrote:
>
>
> Keith,
>
> I truly enjoyed the day with the Scouts. Most of my help came from
> Troop 55 of Lawrence, Kansas. I had a few Scouts that made friendly
> bets (for animal crackers) about the landing points for the balloons.
>
> I also want to thank Deb and her trackers. Mike, KD0FW, did a
> fantastic job of collecting my system and we have some very good data
> for our student research project at DePauw.
>
> Bill, WB8ELK, already shared his success in copying the DominoEx
> transmission in Alabama. Did anyone else copy the 147.45 MHz signals?
> I am especially interested to see if others had trouble with copying
> the lat/long/altitude information.
>
> I was surprised that I could get a 600 gram balloon to 95,700 feet
> while carrying four pounds of payload. That is the highest that our
> program has achieved for that size balloon.
>
> Looks like we'll fly on Thursday (I'll get the form filled out).
>
> Thanks for your support,
> Howard, KC9QBN
> BASE-DePauw
>
>
>
> --- On *Mon, 9/27/10, Keith Kaiser /<wa0tjt@...>/* wrote:
>
>

> From: Keith Kaiser <wa0tjt@...>
> Subject: [GPSL] BSA Centennial Balloon Launches
> To: "gpsl" <GPSL@yahoogroups.com>
> Cc: "Deb Kaiser" <dlkaiser@...>, "John Morelli"
> <jjm2@...>, "Jerome Tonneson" <w0jrt@...>, "Mike
> Bogard" <kd0fw@...>
> Date: Monday, September 27, 2010, 1:46 PM
>
> Thanks to Howard and Paul we were able to launch three HAB's this
> past Saturday from the Heart of America Councils BSA Centennial
> Campout. Two of the balloons Howard's and my own we launched just
> after 11a.m, a heavy storm was on its way in and we wanted to get
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>
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> Jim Bair, and of course their fearless leader and my most
> wonderful wife Deb Kaiser. If I forgot anyone, shame on me but
> please know you too are being thanked.
>
>
>
>
>

8575. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 00:29:00 UTC
From: BASE
Topic: 8566 Message: 8575
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,
That question is not easy to answer exactly. The fill was done outdoors. The balloon lifted the dead weight of six pounds, with the filling hose still inside the neck of the balloon, which would lead me to believe that there was a little more than six pounds of neck lift. However, the wind was beginning to be significant (approaching 10 miles/hour), and I am confident that there was some wind induced lift. I've never done the calculations for wind lift on a 600 gram balloon.
Howard
--- On Mon, 9/27/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] BSA Centennial Balloon Launches
To: GPSL@yahoogroups.com
Cc: "BASE" <basedepauw@yahoo.com>
Date: Monday, September 27, 2010, 5:57 PM

How much lift was at the nozzle of the balloon?

IE; Payload weight+ positive lift in other words how much lift
was at the neck of the balloon with nothing attached?

Joe WB9SBD

The Original Rolling
Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 9/27/2010 3:42 PM, BASE wrote:

Keith,

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few Scouts that made friendly bets (for animal crackers)
about the landing points for the balloons.

I also want to thank Deb and her trackers. Mike,
KD0FW, did a fantastic job of collecting my system and
we have some very good data for our student research
project at DePauw.

Bill, WB8ELK, already shared his success in copying the DominoEx transmission in Alabama. Did anyone else copy the 147.45 MHz signals? I am especially interested to see if others had trouble with copying the lat/long/altitude information.

I was surprised that I could get a 600 gram balloon to 95,700 feet while carrying four pounds of payload. That is the highest that our program has achieved for that size balloon.

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Thanks for your support,
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--- On Mon, 9/27/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@...>

Subject: [GPSL] BSA Centennial Balloon Launches

To: "gpsl" <GPSL@yahoogroups.com>

Cc: "Deb Kaiser" <dlkaiser@...>, "John Morelli" <jjm2@...>, "Jerome Tonneson" <w0jrt@...>, "Mike Bogard" <kd0fw@...>

Date: Monday, September 27, 2010, 1:46 PM

Thanks to Howard and Paul we were able to launch three HAB's this past Saturday from the Heart of America Councils BSA Centennial Campout. Two of the balloons Howard's and my own we launched just after 11a.m, a heavy storm was on its way in and we wanted to get out before it arrived. Howard was able to launch at about 11am, I got off the ground about 11:20am, with the help of about 30 boys from Troop 24.

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they saw at least one, in some cases two and a few all three balloons. Surely this is the largest attended HAB launch in history.

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I have no way to thank all the people who lent support for this activity but I want to single out Howard Brooks for driving all the way to Kansas from Indiana. And to Paul for driving all the way in from Topeka as well. Both guys had to put up with remote parking, bus drivers who got lost and thousands of boys asking questions like what is the balloon made of. It's also very important that I thank the chase/recovery teams of Jerome Tonneson, Mike Bogard and his girl friend Deloris, John Morell, Jim Bair, and of course their fearless leader and my most wonderful wife Deb Kaiser. If I forgot anyone, shame on me but please know you too are being thanked.

8576. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 01:01:35 UTC
From: Mike Manes
Topic: 8558 Message: 8576

Duct tape sticks to water, which doesn't stick to much a'tall. So if you're using duct tape to secure your balloon to a fill tube in a humid environment, the adiabatic cooling of the expanding fill gas can produce condensation or flat-out frost - and that'll do in the duct tape's adhesion. I recall seeing a video (with bleeped audio) of rainy (partial) fill using duct tape in the rain.

Hose clamps are inexpensive and quite reusable - and a whole lot cheaper than a bag of He that goes AWOL. Duct tape works great on dry surfaces.

73 de Mike W5VSI

On 9/27/2010 07:41, Keith Kaiser wrote:
>
>
> This past weekend, I launched or help launch two balloons. One (mine) I used a
> hose clamp like I always do. The other we used duct tape, it did a great job,
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> more work, and messy, but I saw nothing that said it wasn't a viable way to do it.
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>>>> [Attachment(s)<#TopText> from Jerry Gable included below]
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>>>> Jerry
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>>>>
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>
>

>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8577. Flying Platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 14:31:15 UTC
From: Joe
Topic: 8577 Message: 8577
Attachments: 1 described; binary payloads are missing from this source WARC

Check this out,

First I feel still funny posting stuff like this that has absolutely
nothing to do with GPSL here on the GPSL list. How is the groups
transitions coming along?

Anyway check this out It can carry a 500 Gram camera aloft. It's neat
but when you get to the bottom and see the pricetag, LIKE WHAT!?

http://www.gizmag.com/flying-lift-camcorder-system/16477/?utm_source=Gizmag+Subscribers&utm_campaign=36ae023612-UA-2235360-4&utm_medium=email

Joe WB9SBD
--

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8578. List update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 14:41:33 UTC
From: Mark Conner
Topic: 8578 Message: 8578

Joe and others' comments prompted me to make a quick update on this. Basically I haven't had much time to pursue this, and there's not a clear consensus. The two options that stand out are keeping things as is, or starting a new group for general ARHAB discussions at Google. I'm somewhat afraid that the latter will die as most people are comfortable here and the inertia of signing up for a new group at a new site may be more than the majority of people are willing to do.

I would like to update the GPSL front page for the group here, but it looks like Yahoo has an impending redesign coming for its groups functionality. I think that should wait until Yahoo makes their changes, as it might have to be done again.

73 de Mark N9XTN

8579. Re: [GPSL] BSA Centennial Balloon Launches

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 18:01:18 UTC
From: Mark Garrett
Topic: 8566 Message: 8579

Howard:

I copied the Domino Ex transmissions from my mobile near Macomb, IL S-3 signal.

Mark Garrett, K9ASZX

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Mon, September 27, 2010 3:42:13 PM
Subject: Re: [GPSL] BSA Centennial Balloon Launches

Keith,

I truly enjoyed the day with the Scouts. Most of my help came from Troop 55 of Lawrence, Kansas. I had a few Scouts that made friendly bets (for animal crackers) about the landing points for the balloons.

I also want to thank Deb and her trackers. Mike, KD0FW, did a fantastic job of collecting my system and we have some very good data for our student research project at DePauw.

Bill, WB8ELK, already shared his success in copying the DominoEx transmission in Alabama. Did anyone else copy the 147.45 MHz signals? I am especially interested to see if others had trouble with copying the lat/long/altitude information.

I was surprised that I could get a 600 gram balloon to 95,700 feet while carrying four pounds of payload. That is the highest that our program has achieved for that size balloon.

Looks like we'll fly on Thursday (I'll get the form filled out).

Thanks for your support,
Howard, KC9QBN
BASE-DePauw

--- On Mon, 9/27/10, Keith Kaiser <wa0tjt@...> wrote:

>From: Keith Kaiser <wa0tjt@gmail.com>
>Subject: [GPSL] BSA Centennial Balloon Launches
>To: "gpsl" <GPSL@yahoogroups.com>
>Cc: "Deb Kaiser" <dlkaiser@...>, "John Morelli" <jjm2@...>,
>"Jerome Tonneson" <w0jrt@...>, "Mike Bogard" <kd0fw@...>
>Date: Monday, September 27, 2010, 1:46 PM
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>my most wonderful wife Deb Kaiser. If I forgot anyone, shame on me but please
>know you too are being thanked.
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>

8580. Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 19:59:00 UTC
From: L. Paul Verhage
Topic: 8580 Message: 8580

It looks like we will launch from Topeka on Oct 16 with the 23rd as a backup.

I'll post information as soon as I get the details.

I'm looking for anyone in the area who would like to help out with. Especially with tracking and recovery,

Thanks

--
Onwards and Upwards,
Paul

8581. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:11:33 UTC
From: wb8elk@aol.com
Topic: 8558 Message: 8581

My filling nozzle has a groove in it.....I just tie a string around the neck at the groove location and it holds just fine...tested to 25 pounds of lift or more over the years.....I add a strip of duct tape around the bottom of the neck just to make sure. But if your fill nozzle does not have a groove in it, then duct tape alone will not be a good idea...My true favorite is as described below but I haven't used the method below for awhile since I misplaced the NWS device a few years ago during a move:

The NWS balloons also have a groove in their filling nozzle (a nicely machined aluminum affair)....they hold it on with what is essentially a wire loop (about the diameter of a coat hangar) with two ends....you squeeze on the ends and the loop gets bigger...release the wire ends and the loop contracts....it works great....wish I knew where to buy more of these...I only have one that was given me by a NWS balloon launch facility. This is the easiest and quickest way to hold a balloon to a fill nose....lots quicker and far less trouble than a hose clamp or string/duct tape. If anyone finds something like this at an auto parts store or a hardware store, let me know.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Mon, Sep 27, 2010 8:41 am
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

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<CLEAN-IDLE-TYME-LOGO-100-50.jpg>
The Original Rolling Ball Clock
Idle Tyme

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8582. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:38:12 UTC
From: Pete Lilja
Topic: 8558 Message: 8582

I've shown this before but thought I would again.

We use a PVC threaded bushing with a machined notch and a plastic zip-tie around the balloon's neck. It's easy and has worked well for us. The best part is a loop used to tie off the suspension line is easy to connect, handle a full balloon, tie a safety line and check for lift.

These fit well on a 1200 g balloon and, I'd think, others. If anyone is interested I'd be happy to make and send them one for the cost of the bushing (about $1), shipping and an envelope (a couple of more dollars).

You can see what I'm trying to describe by clicking here<http://s33.photobucket.com/albums/d94/bigheadpete/?action=view&current=IMG_0008.jpg>

Pete
KC0GPB

On Tue, Sep 28, 2010 at 3:11 PM, <wb8elk@...> wrote:

>
>
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> Sent: Mon, Sep 27, 2010 8:41 am
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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8583. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:41:54 UTC
From: Mike Bogard
Topic: 8580 Message: 8583

I would like to help do tracking and recovery but Oct 16 is the SSARC Octoberfest hamfest in Belton Mo. This one of the two larger hamfest in Kansas City MO, area. And it is the last one for the year. Mike

8584. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:44:04 UTC
From: dvpatterson@comcast.net
Topic: 8558 Message: 8584

Something like this? http://www.mcmaster.com/#hose-and-tube-clamps/=91pimg

-David

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- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Mon, Sep 27, 2010 8:41 am
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

This past weekend, I launched or help launch two balloons. One (mine) I used a hose clamp like I always do. The other we used duct tape, it did a great job, I saw no indication of it pulling away. I will admit I think the duct tape is more work, and messy, but I saw nothing that said it wasn't a viable way to do it.

On Sep 27, 2010, at 8:25 AM, Joe wrote:

I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike on small flights we use 1 clamp, on heavier flights like 6 pounds of lift or more we use 2. I cringe every time I see videos of other balloon groups using duct tape anywhere on the balloon for any reason. Duct tape is yes very sticky, and will stick to almost anything. BUT it looses it's grip very fast on anything that can stretch. It acts just like those "Command" hangers from 3M. if they aren't stretched they hold tons of weight. But stretch the substrate and they loose all their grip and fall off. Quite ingenious actually. But very bad for wanting to attach anything to a balloon.

And Mikes suggestion of the sun up shadow, or a simple floodlight is a great suggestion.

Joe WB9SBD

<CLEAN-IDLE-TYME-LOGO-100-50.jpg>
The Original Rolling Ball Clock
Idle Tyme

Idle-Tyme.com
http://www.idle-tyme.com

On 9/26/2010 11:29 PM, Mike Manes wrote:

Bummer, Jerry,

Screw-type stainless steel hose clamps work quite well to secure the neck of a balloon to the fill tube; we use two, just for belt and suspenders.

If you're filling at sunrise on a clear morning, you could use the shadow of the balloon on a vertical wall to measure its diameter. The parallax error will be negligible. Or you could use a spot light with measured between it and the balloon and the balloon and the wall, plus a little trig, to accomplish the same end.

73 de Mike W5VSI

On 9/26/2010 16:28, Jerry Gable wrote:

[Attachment(s) <#TopText> from Jerry Gable included below]

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So my experiment will have to wait until my next launch. I plan on measuring temp and pressure inside the balloon on that flight.

Jerry

Attachment(s) from Jerry Gable

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8585. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:46:13 UTC
From: Jerry Gable
Topic: 8558 Message: 8585

So this brings up a question. How many leave a fitting in the balloon for the flight?

I always tie on the flight string sealing the balloon, remove the fill tube, roll up the neck and tape everything.

Also, I have heard that wire ties become brittle at -55? Anybody seen this issue?

Jerry

From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Tue, September 28, 2010 1:38:12 PM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

I've shown this before but thought I would again.

We use a PVC threaded bushing with a machined notch and a plastic zip-tie around the balloon's neck. It's easy and has worked well for us. The best part is a loop used to tie off the suspension line is easy to connect, handle a full balloon, tie a safety line and check for lift.

These fit well on a 1200 g balloon and, I'd think, others. If anyone is interested I'd be happy to make and send them one for the cost of the bushing (about $1), shipping and an envelope (a couple of more dollars).

You can see what I'm trying to describe by clicking here

Pete
KC0GPB

On Tue, Sep 28, 2010 at 3:11 PM, <wb8elk@...> wrote:

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>the groove location and it holds just fine...tested to 25 pounds of lift or more
>over the years.....I add a strip of duct tape around the bottom of the neck just
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8586. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:49:31 UTC
From: Pete Lilja
Topic: 8558 Message: 8586

What McMaster part number, David? That link goes to a general front page
for clamps (or is that what you meant to send?)

Pete

On Tue, Sep 28, 2010 at 3:44 PM, <dvpatterson@...> wrote:

>
>
> Something like this? http://www.mcmaster.com/#hose-and-tube-clamps/=91pimg
>
>
>
> -David
>
>
> ----- Original Message -----
> From: wb8elk@...
> To: GPSL@yahoogroups.com
> Sent: Tuesday, September 28, 2010 2:11:33 PM
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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8587. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:57:52 UTC
From: Mike Manes
Topic: 8558 Message: 8587

Hi Bill,

I've seen that type of hose clamp used on cars before, like for radiator
and air intake hoses. Might drop in and ask the guys at parts store, or
better yet, a crusty old mechanic who might point you to a make and model
car if the part store clerks are clueless.

73 de Mike W5VSI

On 9/28/2010 14:11, wb8elk@... wrote:
>
>
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> at the groove location and it holds just fine...tested to 25 pounds of lift or
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8588. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 20:59:38 UTC
From: dvpatterson@comcast.net
Topic: 8558 Message: 8588

Sorry about that... try P/N: 5324K91. It's the 1" version, but it shouldn't be hard to back out a little way for more options.

-David

----- Original Message -----
From: "Pete Lilja" <plilja@...>
To: GPSL@yahoogroups.com
Sent: Tuesday, September 28, 2010 2:49:31 PM
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- Bill WB8ELK

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From: Keith Kaiser < wa0tjt@... >
To: GPSL@yahoogroups.com
Sent: Mon, Sep 27, 2010 8:41 am
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

This past weekend, I launched or help launch two balloons. One (mine) I used a hose clamp like I always do. The other we used duct tape, it did a great job, I saw no indication of

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On Sep 27, 2010, at 8:25 AM, Joe wrote:

I agree on the stainless Steel hose clamp. thats all we ever use. Like Mike on small flights we use 1 clamp, on heavier flights like 6 pounds of lift or more we use 2. I cringe every time I see videos of other balloon groups using duct tape anywhere on the balloon for any reason. Duct tape is yes very sticky, and will stick to almost anything. BUT it looses it's grip very fast on anything that can stretch. It acts just like those "Command" hangers from 3M. if they aren't stretched they hold tons of weight. But stretch the substrate and they loose all their grip and fall off. Quite ingenious actually. But very bad for wanting to attach anything to a balloon.

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<CLEAN-IDLE-TYME-LOGO-100-50.jpg>
The Original Rolling Ball Clock
Idle Tyme
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On 9/26/2010 11:29 PM, Mike Manes wrote:

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If you're filling at sunrise on a clear morning, you could use the shadow of the balloon on a vertical wall to measure its diameter. The parallax error will be negligible. Or you could use a spot light with measured between it and the balloon and the balloon and the wall, plus a little trig, to accomplish the same end.

73 de Mike W5VSI

On 9/26/2010 16:28, Jerry Gable wrote:

[Attachment(s) <#TopText> from Jerry Gable included below]

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So my experiment will have to wait until my next launch. I plan on measuring temp and pressure inside the balloon on that flight.

Jerry

Attachment(s) from Jerry Gable

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8589. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:04:28 UTC
From: Mike Manes
Topic: 8558 Message: 8589

The top pix is a stainless steel screw clamp like what EOSS uses. Bill's clamp is a single-piece made from piano wire - like a 1 1/4 turn loop with the ends bent up and formed into ears so you can grip it and expand the loop so it'll slip over the neck and move it directly over the groove in the fill nozzle. Release the ears and the loop closes up.

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> -David
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> From: wb8elk@...
> To: GPSL@yahoogroups.com
> Sent: Tuesday, September 28, 2010 2:11:33 PM
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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Mike Manes mrmanes@... Tel: 303-979-4899
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8590. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:05:06 UTC
From: Mike Manes
Topic: 8558 Message: 8590

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> Sent: Tuesday, September 28, 2010 2:11:33 PM
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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8591. [GPSL] Hose clamp for balloon fillers

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:07:12 UTC
From: wb8elk@aol.com
Topic: 8558 Message: 8591

David....the spring wire hose clamp I had from the NWS is similar to this one but has much longer wire ends to allow you to open it without needed a tool.

http://www.mcmaster.com/#spring-hose-clamps/=91psx1

- Bill WB8ELK

-----Original Message-----
From: dvpatterson@...
To: GPSL@yahoogroups.com
Sent: Tue, Sep 28, 2010 3:44 pm
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

Something like this? http://www.mcmaster.com/#hose-and-tube-clamps/=91pimg

-David

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From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Tuesday, September 28, 2010 2:11:33 PM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

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8592. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:11:35 UTC
From: wb8elk@aol.com
Topic: 8558 Message: 8592

hi Mike,

Exactly...the kind like are used for radiator and air intake hoses....if you can find a way to attach long (about 6 inches or more) to the ends of the wire loop clamp...then you'd have the NWS system....however the tension used for the NWS clamp is less than the auto store radiator clamps.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Sent: Tue, Sep 28, 2010 3:57 pm
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

Hi Bill,

I've seen that type of hose clamp used on cars before, like for radiator
and air intake hoses. Might drop in and ask the guys at parts store, or
better yet, a crusty old mechanic who might point you to a make and model
car if the part store clerks are clueless.

73 de Mike W5VSI

On 9/28/2010 14:11, wb8elk@... wrote:
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> quickest way to hold a balloon to a fill nose....lots quicker and far less
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> this at an auto parts store or a hardware store, let me know.
> - Bill WB8ELK
>
>

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> -----Original Message-----
> From: Keith Kaiser <wa0tjt@gmail.com>
> To: GPSL@yahoogroups.com
> Sent: Mon, Sep 27, 2010 8:41 am
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
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>> On 9/26/2010 11:29 PM, Mike Manes wrote:
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>>> error will be negligible. Or you could use a spot light with measured
>>> between it and the balloon and the balloon and the wall, plus a little
>>> trig, to accomplish the same end.
>>>
>>> 73 de Mike W5VSI

>>>
>>> On 9/26/2010 16:28, Jerry Gable wrote:
>>>> [Attachment(s)<#TopText> from Jerry Gable included below]
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>>>> Murphy and his laws were out in force for my 600G balloon burst today. What
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>>>> 1. The 35mW green lasers I was using to measure the balloon's diameter were
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8593. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:14:29 UTC
From: wb8elk@aol.com
Topic: 8558 Message: 8593

Hi David...yes, that's similar to what my NWS clamp looks like....the NWS clamp has about 6 inch long ends though so that you don't need a special tool to use the clamp. - Bill WB8ELK

5324K91

-----Original Message-----
From: dvpatterson@...
To: GPSL@yahoogroups.com
Sent: Tue, Sep 28, 2010 3:59 pm
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

Sorry about that... try P/N: 5324K91. It's the 1" version, but it shouldn't be hard to back out a little way for more options.

-David

----- Original Message -----
From: "Pete Lilja" <plilja@...>
To: GPSL@yahoogroups.com
Sent: Tuesday, September 28, 2010 2:49:31 PM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

What McMaster part number, David? That link goes to a general front page for clamps (or is that what you meant to send?)

Pete

On Tue, Sep 28, 2010 at 3:44 PM, <dvpatterson@...> wrote:

Something like this? http://www.mcmaster.com/#hose-and-tube-clamps/=91pimg

-David

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com

Sent: Tuesday, September 28, 2010 2:11:33 PM
Subject: Re: [GPSL] Murphy helped with the balloon burst test today.

My filling nozzle has a groove in it.....I just tie a string around the neck at the groove location and it holds just fine...tested to 25 pounds of lift or more over the years.....I add a strip of duct tape around the bottom of the neck just to make sure. But if your fill nozzle does not have a groove in it, then duct tape alone will not be a good idea...My true favorite is as described below but I haven't used the method below for awhile since I misplaced the NWS device a few years ago during a move:

The NWS balloons also have a groove in their filling nozzle (a nicely machined aluminum affair)....they hold it on with what is essentially a wire loop (about the diameter of a coat hangar) with two ends....you squeeze on the ends and the loop gets bigger...release the wire ends and the loop contracts....it works great....wish I knew where to buy more of these...I only have one that was given me by a NWS balloon launch facility. This is the easiest and quickest way to hold a balloon to a fill nose....lots quicker and far less trouble than a hose clamp or string/duct tape. If anyone finds something like this at an auto parts store or a hardware store, let me know.

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8594. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:16:35 UTC
From: Mike Manes
Topic: 8558 Message: 8594

On 1200's EOSS uses a clove hitch around the top of the neck to seal it off long enough to remove the fill tube, and then we fold the neck over and tie it off one more time. A wrap of duct tape finishes it. Used to use a TyRap to secure the folded neck, but the new balloonmeisters don't like 'em. Never had one fail, IFAIK.

The neck on a 3000 is too thick and stiff to fold over, so that's where we use a PVC adaptor with a 0.6W x 0.05"D annular groove inside the neck with a SS hose clamp on the outside over the neck. Same idea as Pete's. Works well.

73 de Mike W5VSI

On 9/28/2010 14:46, Jerry Gable wrote:
>
>
> So this brings up a question. How many leave a fitting in the balloon for the
> flight?
>
> I always tie on the flight string sealing the balloon, remove the fill tube,
> roll up the neck and tape everything.
>
> Also, I have heard that wire ties become brittle at -55? Anybody seen this issue?
>
> Jerry
>
> ---
> *From:* Pete Lilja <plilja@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Tue, September 28, 2010 1:38:12 PM
> *Subject:* Re: [GPSL] Murphy helped with the balloon burst test today.
>
> I've shown this before but thought I would again.
>
> We use a PVC threaded bushing with a machined notch and a plastic zip-tie
> around the balloon's neck. It's easy and has worked well for us. The best part
> is a loop used to tie off the suspension line is easy to connect, handle a
> full balloon, tie a safety line and check for lift.
>
> These fit well on a 1200 g balloon and, I'd think, others. If anyone is
> interested I'd be happy to make and send them one for the cost of the bushing
> (about $1), shipping and an envelope (a couple of more dollars).
>
> You can see what I'm trying to describe by clicking here
> <http://s33.photobucket.com/albums/d94/bigheadpete/?action=view¤t=IMG_0008.jpg>
>

> Pete
> KC0GPB
>
> On Tue, Sep 28, 2010 at 3:11 PM, <wb8elk@... <mailto:wb8elk@...>> wrote:
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8595. Re: [GPSL] Murphy helped with the balloon burst test today.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-28 21:23:11 UTC
From: Mike Manes
Topic: 8558 Message: 8595

If you can't find one with the "ears" at a parts store, or maybe an
"automotive reclamation center" (aka junk yard), then you might be able
to make one using .063 or so piano wire from a hobby shop. Use a round
mandrel quite a bit smaller than the relaxed diameter desired.
73 de Mike W5VSI

On 9/28/2010 15:11, wb8elk@... wrote:
>
>
> hi Mike,
> Exactly...the kind like are used for radiator and air intake hoses....if you
> can find a way to attach long (about 6 inches or more) to the ends of the wire
> loop clamp...then you'd have the NWS system....however the tension used for
> the NWS clamp is less than the auto store radiator clamps.
> - Bill WB8ELK
>
>
>
>
> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: wb8elk@...
> Sent: Tue, Sep 28, 2010 3:57 pm
> Subject: Re: [GPSL] Murphy helped with the balloon burst test today.
>
> Hi Bill,
>
> I've seen that type of hose clamp used on cars before, like for radiator
> and air intake hoses. Might drop in and ask the guys at parts store, or
> better yet, a crusty old mechanic who might point you to a make and model
> car if the part store clerks are clueless.
>
> 73 de Mike W5VSI
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> >>>
> >>> On 9/26/2010 16:28, Jerry Gable wrote:
> >>>> [Attachment(s)<#TopText> from Jerry Gable included below]
> >>>>
> >>>> Murphy and his laws were out in force for my 600G balloon burst today. What
> >>>> could go wrong today did.
> >>>>
> >>>> 1. The 35mW green lasers I was using to measure the balloon's diameter were
> >>>> not visible once the full sun started to hit the balloon.
> >>>>
> >>>> 2. A 600G balloon gets really big (see attached image). Even a slight wind
> >>>> pushes it around. As the wind picked up it eventually pulled it off of
> the PVC
> >>>> fill pipe and it slowly floated away to the west (~100 SCF of He gave it
> just
> >>>> enough lift).
> >>>>
> >>>> 3. Oh well I at least would have some data at for the first part of the
> fill.
> >>>> When I got home I found out I had forgotten to enable the channel on the
> >>>> logging software. I have 46 minutes of 0.0v on 8 channels. Why would anyone
> >>>> write software that defaults to all channels off and doesn't show anything
> >>>> while it is recording?
> >>>>
> >>>> So my experiment will have to wait until my next launch. I plan on measuring
> >>>> temp and pressure inside the balloon on that flight.
> >>>>
> >>>> Jerry
> >>>>
> >>>> Attachment(s) from Jerry Gable
> >>>>
> >>>> 1 of 1 Photo(s)
> >>>>
> >>>> 600G_BurstTest.jpg
> >>>>
> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
> >>>> 600G_BurstTest.jpg

> >>>>
> <http://groups.yahoo.com/group/GPSL/attachments/folder/265244479/item/1440327895/view>
> >>>>
> >>>>
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8596. Re: [GPSL] Flying Platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-29 00:30:47 UTC
From: Bruce Coates
Topic: 8577 Message: 8596
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe.

Draganfly.com in Saskatoon makes a similar unit. They demonstrated it for us is at our club meeting last fall. These are amazing pieces of equipment. A local ham pilots it for the city police. Talk about a dream job!

73, Bruce - VE5BNC
----- Original Message -----
From: Joe
To: gpsl
Sent: Tuesday, September 28, 2010 8:31 AM
Subject: [GPSL] Flying Platform

Check this out,

First I feel still funny posting stuff like this that has absolutely nothing to do with GPSL here on the GPSL list. How is the groups transitions coming along?

Anyway check this out It can carry a 500 Gram camera aloft. It's neat but when you get to the bottom and see the pricetag, LIKE WHAT!?

http://www.gizmag.com/flying-lift-camcorder-system/16477/?utm_source=Gizmag+Subscribers&utm_campaign=36ae023612-UA-2235360-4&utm_medium=email

Joe WB9SBD

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8597. Re: [GPSL] Flying Platform

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-29 00:59:55 UTC
From: Mike Manes
Topic: 8577 Message: 8597

You want kewl? Check >this< out!

http://www.youtube.com/watch?v=geqip_0Vjec

The dude in the cage with that monster is demonstrating a LOT of
confidence in his software!

73 de Mike W5VSI

On 9/28/2010 18:30, Bruce Coates wrote:
>
>
> Hi Joe.
> Draganfly.com in Saskatoon makes a similar unit. They demonstrated it for us
> is at our club meeting last fall. These are amazing pieces of equipment. A
> local ham pilots it for the city police. Talk about a dream job!
> 73, Bruce - VE5BNC
>
> ----- Original Message -----
> *From:* Joe <mailto:nss@...>
> *To:* gpsl <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, September 28, 2010 8:31 AM
> *Subject:* [GPSL] Flying Platform
>
> Check this out,
>
> First I feel still funny posting stuff like this that has absolutely
> nothing to do with GPSL here on the GPSL list. How is the groups
> transitions coming along?
>
> Anyway check this out It can carry a 500 Gram camera aloft. It's neat but
> when you get to the bottom and see the pricetag, LIKE WHAT!?
>
> http://www.gizmag.com/flying-lift-camcorder-system/16477/?utm_source=Gizmag+Subscribers&
utm_campaign=36ae023612-UA-2235360-4&utm_medium=email
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8598. BASE 52 on 30 September - launch location change

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-29 17:18:53 UTC
From: BASE
Topic: 8598 Message: 8598

Dear friends,

BASE 52 is still scheduled for launch tomorrow, 30 September. I am still hoping for the same time of release, 1700 UTC (1 pm local time(Eastern Daylight Time)). We will have issues with the winds, 15 miles/hour steady with gusts to 25 miles/hour. There is quite a scatter in the flight predictions for the hours preceeding and following the scheduled launch time. A dry cold front passage at midday tomorrow makes for an uncertain landing site.

As a result, we are headed away from the forests of south central Indiana. We will launch from the Northmont School Corporation property in Montgomery County, Indiana. Approximate launch coordinates are 40.12 North and 86.91 West.

Hoping to land in a harvested field (beans or corn it doesn't matter if they're gone)!

Thanks for your support,
Howard, KC9QBN
BASE-DePauw

8599. Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-23 09:16:23 UTC
From: Nicholas
Topic: 6119 Message: 8599

Mike,

To my knowledge, I am the only person flying the Garmin Rino as part of a balloon packages. I have 3 different Rino 110's that have seen flight duty.

I have one that is integrated into my APRS package. It serves double duty, since it is the gps engine (via NEMA output) for the APRS and also sends out it's Rino data via FRS.

I am very disappointed, that at the last minute I had to travel to Boston for a job over this weekend.

I fly the Rino on all my flights, I have made several GPSL's.

Cheers - Nick K0NMS

<< Is anyone launching going to use a Garmin Rino. I also saw a prediction for the landing site for those balloons and I do not seem to find it now. Where did it go or is my old age really getting to me? Thanks Mike KDØFW
>

8600. Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 02:29:35 UTC
From: Jerry
Topic: 6119 Message: 8600

Nick,

The Garmin Rino looks interesting. Does it just send the data digitally to the other radios? I actually use an FRS radio that speaks the position every 2 minutes as a backup radio. It is actually pretty fun to have a voice that everyone can plot with very little equipment.

Jerry

--- In GPSL@yahoogroups.com, "Nicholas" <NStich@...> wrote:
>
> Mike,
>
> To my knowledge, I am the only person flying the Garmin Rino as part of a balloon packages. I have 3 different Rino 110's that have seen flight duty.
>
> I have one that is integrated into my APRS package. It serves double duty, since it is the gps engine (via NEMA output) for the APRS and also sends out it's Rino data via FRS.
>
> I am very disappointed, that at the last minute I had to travel to Boston for a job over this weekend.
>
> I fly the Rino on all my flights, I have made several GPSL's.
>
> Cheers - Nick K0NMS
>
>
> << Is anyone launching going to use a Garmin Rino. I also saw a prediction for the landing site for those balloons and I do not seem to find it now. Where did it go or is my old age really getting to me? Thanks Mike KDØFW
> >
>

8601. First Potentially Habitable Exoplanet

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 13:41:54 UTC
From: L. Paul Verhage
Topic: 8601 Message: 8601

The number of exoplanets keeps growning. Around a red dwarf star 20 light years away, a sixth exoplanet was discovered and it resides smack dab in the habitable zone of this star. Since the planet only has a mass of 3-4 times earth's, it's rocky and warm enough to support liquid water.

http://www.newscientist.com/article/dn19519-found-first-rocky-exoplanet-that-could-host-life.html

Where's that super-space telescope when you need it?

Better yet, when can we ride the Venture Star?

--
Onwards and Upwards,
Paul

8602. Re: [GPSL] First Potentially Habitable Exoplanet

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 13:50:58 UTC
From: Keith Kaiser
Topic: 8601 Message: 8602

Maybe VentureStar3000 will get us there.... LOL

Whenever it is it's too many years away for me.

On Sep 30, 2010, at 8:41 AM, L. Paul Verhage wrote:

>
> The number of exoplanets keeps growning. Around a red dwarf star 20 light years away, a sixth exoplanet was discovered and it resides smack dab in the habitable zone of this star. Since the planet only has a mass of 3-4 times earth's, it's rocky and warm enough to support liquid water.
>
> http://www.newscientist.com/article/dn19519-found-first-rocky-exoplanet-that-could-host-life.html
>
> Where's that super-space telescope when you need it?
>
> Better yet, when can we ride the Venture Star?
>
> --
> Onwards and Upwards,
> Paul
>
>

8603. Re: [GPSL] First Potentially Habitable Exoplanet

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 13:53:34 UTC
From: L. Paul Verhage
Topic: 8601 Message: 8603

That's what an induced coma and refrigerator are for.

Paul

On Thu, Sep 30, 2010 at 8:50 AM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Maybe VentureStar3000 will get us there.... LOL
>
> Whenever it is it's too many years away for me.
>
> On Sep 30, 2010, at 8:41 AM, L. Paul Verhage wrote:
>
>
>
>
> The number of exoplanets keeps growning. Around a red dwarf star 20 light
> years away, a sixth exoplanet was discovered and it resides smack dab in the
> habitable zone of this star. Since the planet only has a mass of 3-4 times
> earth's, it's rocky and warm enough to support liquid water.
>
>
> http://www.newscientist.com/article/dn19519-found-first-rocky-exoplanet-that-could-host-life.html
>
> Where's that super-space telescope when you need it?
>
> Better yet, when can we ride the Venture Star?
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>
>

--
Onwards and Upwards,
Paul

8604. New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 21:20:41 UTC
From: sarbresam
Topic: 8604 Message: 8604

I posted some photos from my sons launch on 9/26/2010. I thought you would enjoy the images of the Pacific ocean and just how close it landed to the freeway. He was very lucky.

Tim

8605. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 22:51:20 UTC
From: Pete Lilja
Topic: 8604 Message: 8605

You posted them where?

Pete

On Thu, Sep 30, 2010 at 4:20 PM, sarbresam <sarbresam@...> wrote:

>
>
> I posted some photos from my sons launch on 9/26/2010. I thought you would
> enjoy the images of the Pacific ocean and just how close it landed to the
> freeway. He was very lucky.
>
> Tim
>
>
>

8606. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-30 22:56:10 UTC
From: Tim
Topic: 8604 Message: 8606

Sorry.

I posted them in the Photos section of the GPSL site.

here is a link...
http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list

Tim

From: Pete Lilja <plilja@...>
To: GPSL@yahoogroups.com
Sent: Thu, September 30, 2010 3:51:20 PM
Subject: Re: [GPSL] New Pictues

You posted them where?

Pete

On Thu, Sep 30, 2010 at 4:20 PM, sarbresam <sarbresam@...> wrote:

>I posted some photos from my sons launch on 9/26/2010. I thought you would
>enjoy the images of the Pacific ocean and just how close it landed to the
>freeway. He was very lucky.
>
>Tim
>
>

8607. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 16:53:56 UTC
From: Pete Lilja
Topic: 8604 Message: 8607

Very nice. You've got to be proud of your son. He seems to do a lot of cool stuff!

That landing did look close. But that makes for an easy recovery. We don't worry too much about that here in Iowa. But we can't get pix of the Pacific, either.

It seems the pix are a bit underexposed. I find it's really difficult to get good exposures throughout a flight. Underexposure is, or so I'm told, better than over-exposure. The details are still there - your just gotta coax them out with software.

Very nice! thanks for posting the link.

Pete

On Thu, Sep 30, 2010 at 5:56 PM, Tim <sarbresam@yahoo.com> wrote:

>
>
> Sorry.
>
> I posted them in the Photos section of the GPSL site.
>
> here is a link...
> http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list
>
> Tim
>
> ------------------------------
> *From:* Pete Lilja <plilja@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, September 30, 2010 3:51:20 PM
> *Subject:* Re: [GPSL] New Pictues
>
>
>
> You posted them where?
>
> Pete
>
> On Thu, Sep 30, 2010 at 4:20 PM, sarbresam <sarbresam@...> wrote:
>
>>
>>
>> I posted some photos from my sons launch on 9/26/2010. I thought you would

>> enjoy the images of the Pacific ocean and just how close it landed to the
>> freeway. He was very lucky.
>>
>> Tim
>>
>>
>
>
>

8608. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 17:18:00 UTC
From: L. Paul Verhage
Topic: 8604 Message: 8608

Yes congrats.

You know, I suppose you could get a picture of the Pacific from Iowa if you can get the balloon high enough. My calculation shows you just ned to get the balloon to an altitude of 2.7 million feet. Ummm, how much helium wil that take?

Usually I see problems with picture exposure when the camera's light detector is covered. But that results in over exposed pictures. I wonder can result in underexposed?

Paul

On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...> wrote:

>
>
> Very nice. You've got to be proud of your son. He seems to do a lot of
> cool stuff!
>
> That landing did look close. But that makes for an easy recovery. We
> don't worry too much about that here in Iowa. But we can't get pix of the
> Pacific, either.
>
> It seems the pix are a bit underexposed. I find it's really difficult to
> get good exposures throughout a flight. Underexposure is, or so I'm told,
> better than over-exposure. The details are still there - your just gotta
> coax them out with software.
>
> Very nice! thanks for posting the link.
>
> Pete
>
> On Thu, Sep 30, 2010 at 5:56 PM, Tim <sarbresam@...> wrote:
>
>>
>>
>> Sorry.
>>
>> I posted them in the Photos section of the GPSL site.
>>
>> here is a link...
>> http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list
>>
>> Tim
>>

>> ------------------------------
>> *From:* Pete Lilja <plilja@...>
>> *To:* GPSL@yahoogroups.com
>> *Sent:* Thu, September 30, 2010 3:51:20 PM
>> *Subject:* Re: [GPSL] New Pictues
>>
>>
>>
>> You posted them where?
>>
>> Pete
>>
>> On Thu, Sep 30, 2010 at 4:20 PM, sarbresam <sarbresam@...> wrote:
>>
>>>
>>>
>>> I posted some photos from my sons launch on 9/26/2010. I thought you
>>> would enjoy the images of the Pacific ocean and just how close it landed to
>>> the freeway. He was very lucky.
>>>
>>> Tim
>>>
>>>
>>
>>
>
>
>

--
Onwards and Upwards,
Paul

8609. 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 17:30:03 UTC
From: L. Paul Verhage
Topic: 8609 Message: 8609

Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your near spacecraft off of one of these charged caps.

Here's the link.
http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newsletter&utm_campaign=bb9a1752fe-September30&utm_medium=email

The caps are used electric cars.

The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour. I'm thinking my near space craft needs less than 0.5 amps of current. I would need two of these in parallel for 5.4 volts which is barely enough for the LDO voltage regulator I use. However, at 0.9 pounds each, I'm still better off with batteries.

--
Onwards and Upwards,
Paul

8610. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 18:29:13 UTC
From: Tim
Topic: 8604 Message: 8610

Yes I am very proud of Brenden.

Photography is my hobby so I helped with the camera setup. I told Brenden what the camera should do and he figured how to do with CHDK. I have seen a bunch of photos that were blurred from payload spin. I had Brenden set up the camera in aperture priority (AV) mode with a shutter speed of 1/500. He also setup the camera to take RAW & JPG photos, however the RAW photos failed. He used a Canon A470 which has a very small 5.75 x 4.31 mm sensor, which with a high shutter speed and a small sensor you are bound to have them come out under exposed. I didn't think it would be a big deal because he would have RAW images that I could pull out the detail. The other problem was not being able to use a UV/Haze filter. His next flight I hope he will be flying a G11. The G11 will allow him to use filters and it has a much bigger sensor. The G12 is coming out soon so I am hunting eBay for a cheap G11.

Tim
Brenden's Dad/Project Finance Dept

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Fri, October 1, 2010 10:18:00 AM
Subject: Re: [GPSL] New Pictues

Yes congrats.

You know, I suppose you could get a picture of the Pacific from Iowa if you can get the balloon high enough. My calculation shows you just ned to get the balloon to an altitude of 2.7 million feet. Ummm, how much helium wil that take?

Usually I see problems with picture exposure when the camera's light detector is covered. But that results in over exposed pictures. I wonder can result in underexposed?

Paul

On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...> wrote:

>
>Very nice. You've got to be proud of your son. He seems to do a lot of cool
>stuff!
>
>That landing did look close. But that makes for an easy recovery. We don't
>worry too much about that here in Iowa. But we can't get pix of the Pacific,
>either.
>

>
>It seems the pix are a bit underexposed. I find it's really difficult to get
>good exposures throughout a flight. Underexposure is, or so I'm told, better
>than over-exposure. The details are still there - your just gotta coax them out
>with software.
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>Very nice! thanks for posting the link.
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>Pete
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>On Thu, Sep 30, 2010 at 5:56 PM, Tim <sarbresam@yahoo.com> wrote:
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>>I posted them in the Photos section of the GPSL site.
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>>here is a link...
>>http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list
>>
>>
>>Tim
>>
>>
>>
>>

From: Pete Lilja <plilja@...>
>>To: GPSL@yahoogroups.com
>>Sent: Thu, September 30, 2010 3:51:20 PM
>>Subject: Re: [GPSL] New Pictues
>>
>>
>>
>>You posted them where?
>>
>>Pete
>>
>>
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>>>I posted some photos from my sons launch on 9/26/2010. I thought you would enjoy
>>>the images of the Pacific ocean and just how close it landed to the freeway. He
>>>was very lucky.
>>>
>>>Tim
>>>
>>>

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>

--
Onwards and Upwards,
Paul

8611. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 18:35:47 UTC
From: Roger Hammond
Topic: 8604 Message: 8611

Good job guys!

Roger KC0MWM
CNNSP

On Fri, Oct 1, 2010 at 1:29 PM, Tim <sarbresam@...> wrote:

>
>
> Yes I am very proud of Brenden.
>
> Photography is my hobby so I helped with the camera setup. I told Brenden
> what the camera should do and he figured how to do with CHDK. I have seen a
> bunch of photos that were blurred from payload spin. I had Brenden set up
> the camera in aperture priority (AV) mode with a shutter speed of 1/500. He
> also setup the camera to take RAW & JPG photos, however the RAW photos
> failed. He used a Canon A470 which has a very small 5.75 x 4.31 mm
> sensor, which with a high shutter speed and a small sensor you are bound to
> have them come out under exposed. I didn't think it would be a big deal
> because he would have RAW images that I could pull out the detail. The
> other problem was not being able to use a UV/Haze filter. His next flight I
> hope he will be flying a G11. The G11 will allow him to use filters and it
> has a much bigger sensor. The G12 is coming out soon so I am hunting eBay
> for a cheap G11.
>
> Tim
> Brenden's Dad/Project Finance Dept
>
>
> ------------------------------
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, October 1, 2010 10:18:00 AM
>
> *Subject:* Re: [GPSL] New Pictues
>
>
>
> Yes congrats.
>
> You know, I suppose you could get a picture of the Pacific from Iowa if you
> can get the balloon high enough. My calculation shows you just ned to get
> the balloon to an altitude of 2.7 million feet. Ummm, how much helium wil
> that take?
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> Usually I see problems with picture exposure when the camera's light

> detector is covered. But that results in over exposed pictures. I
> wonder can result in underexposed?
>
> Paul
>
> On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> Very nice. You've got to be proud of your son. He seems to do a lot of
>> cool stuff!
>>
>> That landing did look close. But that makes for an easy recovery. We
>> don't worry too much about that here in Iowa. But we can't get pix of the
>> Pacific, either.
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>> It seems the pix are a bit underexposed. I find it's really difficult to
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>> On Thu, Sep 30, 2010 at 5:56 PM, Tim <sarbresam@...> wrote:
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>>> Tim
>>>
>>> ------------------------------
>>> *From:* Pete Lilja <plilja@...>
>>> *To:* GPSL@yahoogroups.com
>>> *Sent:* Thu, September 30, 2010 3:51:20 PM
>>> *Subject:* Re: [GPSL] New Pictues
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>>>
>>>
>>> You posted them where?
>>>
>>> Pete
>>>

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>>>>
>>>> I posted some photos from my sons launch on 9/26/2010. I thought you
>>>> would enjoy the images of the Pacific ocean and just how close it landed to
>>>> the freeway. He was very lucky.
>>>>
>>>> Tim
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> --
> Onwards and Upwards,
> Paul
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8612. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 18:41:41 UTC
From: L. Paul Verhage
Topic: 8604 Message: 8612

Is the UV filter on the camera lens? On the lens shoudl be fine since the air should be dry inside the camera lens.

One thing I discovered is you don't want to put a filter on the airframe. Moisture inside will condense on the window to create fogging.

I like the title of Project Finance Department!!

Paul

On Fri, Oct 1, 2010 at 1:35 PM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Good job guys!
>
> Roger KC0MWM
> CNNSP
>
>
> On Fri, Oct 1, 2010 at 1:29 PM, Tim <sarbresam@...> wrote:
>
>>
>>
>> Yes I am very proud of Brenden.
>>
>> Photography is my hobby so I helped with the camera setup. I told Brenden
>> what the camera should do and he figured how to do with CHDK. I have seen a
>> bunch of photos that were blurred from payload spin. I had Brenden set up
>> the camera in aperture priority (AV) mode with a shutter speed of 1/500. He
>> also setup the camera to take RAW & JPG photos, however the RAW photos
>> failed. He used a Canon A470 which has a very small 5.75 x 4.31 mm
>> sensor, which with a high shutter speed and a small sensor you are bound to
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>> because he would have RAW images that I could pull out the detail. The
>> other problem was not being able to use a UV/Haze filter. His next flight I
>> hope he will be flying a G11. The G11 will allow him to use filters and it
>> has a much bigger sensor. The G12 is coming out soon so I am hunting eBay
>> for a cheap G11.
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>> Tim
>> Brenden's Dad/Project Finance Dept
>>
>>
>> ------------------------------
>> *From:* L. Paul Verhage <nearsys@...>

>> *To:* GPSL@yahoogroups.com
>> *Sent:* Fri, October 1, 2010 10:18:00 AM
>>
>> *Subject:* Re: [GPSL] New Pictues
>>
>>
>>
>> Yes congrats.
>>
>> You know, I suppose you could get a picture of the Pacific from Iowa if
>> you can get the balloon high enough. My calculation shows you just ned to
>> get the balloon to an altitude of 2.7 million feet. Ummm, how much helium
>> wil that take?
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>> Usually I see problems with picture exposure when the camera's light
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>> Paul
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>> On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...> wrote:
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>>> Very nice. You've got to be proud of your son. He seems to do a lot of
>>> cool stuff!
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>>> That landing did look close. But that makes for an easy recovery. We
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>>>> here is a link...
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>>>> Tim
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>>>> *From:* Pete Lilja <plilja@...>
>>>> *To:* GPSL@yahoogroups.com
>>>> *Sent:* Thu, September 30, 2010 3:51:20 PM
>>>> *Subject:* Re: [GPSL] New Pictues
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8613. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 19:01:32 UTC
From: Tim
Topic: 8604 Message: 8613

<<I like the title of Project Finance Department!!>> Thanks Paul I do too, however I like Dad much more.

I am curious to know if you were using hand warmers when the fogging occurred? On one of Brenden's attempts he used hand warmers and when we retrieved it 45minutes after lift off the gear inside was so hot you could hardly touch it. (This flight never made it passed 10k and is a long story for another thread.) My point is condensation/fogging is caused by differences in temperature inside to out. The flight from which these pictures came, his payload was not even close to air tight, so the temp on the inside was the same as the outside. On this flight he insulated the batteries from the cold and some of the electronics but the camera was left to fend for itself. Yes some were underexposed but none were fogged.

Thoughts?

What are others doing to fight condensation?

Tim
Brenden's Dad/Project Finance Dept

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Fri, October 1, 2010 11:41:41 AM
Subject: Re: [GPSL] New Pictues

Is the UV filter on the camera lens? On the lens shoudl be fine since the air should be dry inside the camera lens.

One thing I discovered is you don't want to put a filter on the airframe. Moisture inside will condense on the window to create fogging.

I like the title of Project Finance Department!!

Paul

On Fri, Oct 1, 2010 at 1:35 PM, Roger Hammond <kc0mwm@gmail.com> wrote:

>
>Good job guys!
>
>Roger KC0MWM
>CNNSP
>
>
>
>On Fri, Oct 1, 2010 at 1:29 PM, Tim <sarbresam@...> wrote:

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>>Yes I am very proud of Brenden.
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>>Photography is my hobby so I helped with the camera setup. I told Brenden what
>>the camera should do and he figured how to do with CHDK. I have seen a bunch of
>>photos that were blurred from payload spin. I had Brenden set up the camera in
>>aperture priority (AV) mode with a shutter speed of 1/500. He also setup the
>>camera to take RAW & JPG photos, however the RAW photos failed. He used a
>>Canon A470 which has a very small 5.75 x 4.31 mm sensor, which with a high
>>shutter speed and a small sensor you are bound to have them come out under
>>exposed. I didn't think it would be a big deal because he would have RAW images
>>that I could pull out the detail. The other problem was not being able to use a
>>UV/Haze filter. His next flight I hope he will be flying a G11. The G11 will
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>>To: GPSL@yahoogroups.com
>>Sent: Fri, October 1, 2010 10:18:00 AM
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>>Yes congrats.
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>>You know, I suppose you could get a picture of the Pacific from Iowa if you can
>>get the balloon high enough. My calculation shows you just ned to get the
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>>Paul
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>>On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...> wrote:
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Onwards and Upwards,
Paul

8614. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 19:03:29 UTC
From: Pete Lilja
Topic: 8604 Message: 8614

Ooh, 2.7 million feet is a bit out of my league. Too much latex required.
(That's tongue-in-cheek, folks).

Interestingly, we did get a photo showing a sliver of Lake Michigan from
over NE
Iowa<http://s33.photobucket.com/albums/d94/bigheadpete/NIXHAB-4/?action=view¤t=-4LabeledPhoto.jpg>this
past winter.

Enough of that - this thread is Brenden's. A very nice job by a promising
young man.

Pete
KC0GPB

On Fri, Oct 1, 2010 at 12:18 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Yes congrats.
>
> You know, I suppose you could get a picture of the Pacific from Iowa if you
> can get the balloon high enough. My calculation shows you just ned to get
> the balloon to an altitude of 2.7 million feet. Ummm, how much helium wil
> that take?
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> Usually I see problems with picture exposure when the camera's light
> detector is covered. But that results in over exposed pictures. I
> wonder can result in underexposed?
>
> Paul
>
>
>

8615. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 19:25:32 UTC
From: Pete Lilja
Topic: 8604 Message: 8615

The fogging of the lens occurs when the equipment temperature is below the dew point of the ambient air - at least in our experience. It has occurred for us only on descent after the payload box takes a good cold soak at altitude and then returns relatively quickly in to the humid air nearer the ground.

We haven't experience it but I suppose you could also get fogging on ascent passing through moisture and a change in temp.

Those of us that fly east of a longitudinal line from about El Paso, TX live with this humidity every Summer. Yuck! (Or so I've read that El Paso line is a rough dividing line between arid air and the stuff we swim through in the Summer).

Pete

On Fri, Oct 1, 2010 at 2:01 PM, Tim <sarbresam@...> wrote:

>
>
> <<I like the title of Project Finance Department!!>> Thanks Paul I do too,
> however I like Dad much more.
>
> I am curious to know if you were using hand warmers when the fogging
> occurred? On one of Brenden's attempts he used hand warmers and when we
> retrieved it 45minutes after lift off the gear inside was so hot you could
> hardly touch it. (This flight never made it passed 10k and is a long story
> for another thread.) My point is condensation/fogging is caused by
> differences in temperature inside to out. The flight from which these
> pictures came, his payload was not even close to air tight, so the temp on
> the inside was the same as the outside. On this flight he insulated the
> batteries from the cold and some of the electronics but the camera was left
> to fend for itself. Yes some were underexposed but none were fogged.
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> What are others doing to fight condensation?
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> Brenden's Dad/Project Finance Dept
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> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, October 1, 2010 11:41:41 AM
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> *Subject:* Re: [GPSL] New Pictues
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> Is the UV filter on the camera lens? On the lens shoudl be fine since the
> air should be dry inside the camera lens.
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> One thing I discovered is you don't want to put a filter on the airframe.
> Moisture inside will condense on the window to create fogging.
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> On Fri, Oct 1, 2010 at 1:35 PM, Roger Hammond <kc0mwm@...> wrote:
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>>> speed of 1/500. He also setup the camera to take RAW & JPG photos, however
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>>>>> *From:* Pete Lilja <plilja@...>
>>>>> *To:* GPSL@yahoogroups.com
>>>>> *Sent:* Thu, September 30, 2010 3:51:20 PM
>>>>> *Subject:* Re: [GPSL] New Pictues
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8616. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 19:44:06 UTC
From: wb8elk@aol.com
Topic: 8609 Message: 8616

Paul....you also have to look at the voltage discharge curve on these.....depending on your usable cutoff voltage, you won't get the whole capacity on Supercaps....perhaps 30 to 50 percent of the capacity depending on your voltage overhead to start and your minimum usable voltage.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...m>
To: gpsl@yahoogroups.com
Sent: Fri, Oct 1, 2010 12:30 pm
Subject: [GPSL] 3,000 F Caps

Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your near spacecraft off of one of these charged caps.

Here's the link.
http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newsletter&utm_campaign=bb9a1752fe-September30&utm_medium=email

The caps are used electric cars.

The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour. I'm thinking my near space craft needs less than 0.5 amps of current. I would need two of these in parallel for 5.4 volts which is barely enough for the LDO voltage regulator I use. However, at 0.9 pounds each, I'm still better off with batteries.

--
Onwards and Upwards,
Paul

8617. BASE 52 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-01 19:59:08 UTC
From: BASE
Topic: 8617 Message: 8617

Dear friends,

BASE 52 was successfully completed yesterday. Moving the launch site and the strong and gusty (20 mph ranging to 28 mph) winds made for an exciting fill of the balloon. The 6.5 pound dead weight was lifted at approximately the half-fill point. I used the tank gauge to estimate the volume of gas in the balloon. Finally, I followed the Manes' principle and "gave it a little more gas." End result was a flight path with an ascent rate of 1200 feet/minute. Burst occurred at 90,400 feet. Total flight time of two hours.

The system returned very slowly to the ground with just the neck of the balloon and landed on the northern edge of Jamestown, Indiana in a mowed side yard between two houses.

Bill, WB8ELK, copied the DominoEX again in Alabama.

Details of the flight will be posted at www.depauw.edu/acad/physics/base

After three flights in less than three weeks, we'll take a break from flying until October 14.

Thanks for your support,
Howard, KC9QBN
BASE-DePauw

8618. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 01:34:47 UTC
From: Mike Manes
Topic: 8604 Message: 8618

The only time I've run into condensation problems is during descent thru a thick cloud layer - the payload guts are cold, and the ambient wet air is infiltrating during descent. One trick that seemed to work a bit was to install a breather port packed with silica gel desiccant. The port was made from a pill bottle with the top and bottom perforated with 0.063" drilled holes.

73 de Mike W5VSI

On 10/1/2010 13:01, Tim wrote:
>
>
> <<I like the title of Project Finance Department!!>> Thanks Paul I do too,
> however I like Dad much more.
>
> I am curious to know if you were using hand warmers when the fogging occurred?
> On one of Brenden's attempts he used hand warmers and when we retrieved it
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> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
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> On Thu, Sep 30, 2010 at 4:20 PM, sarbresam

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> Onwards and Upwards,
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8619. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 01:41:09 UTC
From: Mike Manes
Topic: 8609 Message: 8619

At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't screw up the math. At a constant current, the cap voltage will decay linearly all the way to zip. Rate of change of cap voltage:
dV/dt (V/s) = I(A)/C(F).
73 de Mike W5VSI

On 10/1/2010 13:44, wb8elk@... wrote:
>
>
> Paul....you also have to look at the voltage discharge curve on
> these.......depending on your usable cutoff voltage, you won't get the whole
> capacity on Supercaps....perhaps 30 to 50 percent of the capacity depending on
> your voltage overhead to start and your minimum usable voltage.
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: gpsl@yahoogroups.com
> Sent: Fri, Oct 1, 2010 12:30 pm
> Subject: [GPSL] 3,000 F Caps
>
> Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your
> near spacecraft off of one of these charged caps.
> Here's the link.
> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email>
> The caps are used electric cars.
> The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour.
> I'm thinking my near space craft needs less than 0.5 amps of current. I would
> need two of these in parallel for 5.4 volts which is barely enough for the LDO
> voltage regulator I use. However, at 0.9 pounds each, I'm still better off
> with batteries.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8620. Re: [GPSL] BASE 52 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 01:50:46 UTC
From: Mike Manes
Topic: 8617 Message: 8620

Congrats, Howard,

And I can't take credit for the EOSS Motto, "A little more gas". That's better attributed to our Beloved Founder and Balloonmeister Emeritus, Jack AA0P and Merle K0YUK, ca. 1990-1.

If you can't sked to avoid nasty launch winds, then compensating for false lift is a black art (aka SWAG). Sounds like you nailed it!

73 de Mike W5VSI
CTO EOSS

On 10/1/2010 13:59, BASE wrote:
> Dear friends,
>
> BASE 52 was successfully completed yesterday. Moving the launch site and the strong and gusty (20 mph ranging to 28 mph) winds made for an exciting fill of the balloon. The 6.5 pound dead weight was lifted at approximately the half-fill point. I used the tank gauge to estimate the volume of gas in the balloon. Finally, I followed the Manes' principle and "gave it a little more gas." End result was a flight path with an ascent rate of 1200 feet/minute. Burst occurred at 90,400 feet. Total flight time of two hours.
>
> The system returned very slowly to the ground with just the neck of the balloon and landed on the northern edge of Jamestown, Indiana in a mowed side yard between two houses.
>
> Bill, WB8ELK, copied the DominoEX again in Alabama.
>
> Details of the flight will be posted at www.depauw.edu/acad/physics/base
>
> After three flights in less than three weeks, we'll take a break from flying until October 14.
>
> Thanks for your support,
> Howard, KC9QBN
> BASE-DePauw
>
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> ------------------------------------
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8621. Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 03:21:58 UTC
From: Nicholas
Topic: 6119 Message: 8621

Jerry

Yes, it send a digital data burst that is a Garmin format. The other Rino's if on the correct freq and tone can decode the data burst. It shows elevation and long & lat. This information is displayed on the Rino's map. Depending on which Rino you are using, you can have very detailed maps.

Nick
>
> Nick,
>
> The Garmin Rino looks interesting. Does it just send the data digitally to the other radios? I actually use an FRS radio that speaks the position every 2 minutes as a backup radio. It is actually pretty fun to have a voice that everyone can plot with very little equipment.
>
> Jerry
>
> --- In GPSL@yahoogroups.com, "Nicholas" <NStich@> wrote:
> >
> > Mike,
> >
> > To my knowledge, I am the only person flying the Garmin Rino as part of a balloon packages. I have 3 different Rino 110's that have seen flight duty.
> >
> > I have one that is integrated into my APRS package. It serves double duty, since it is the gps engine (via NEMA output) for the APRS and also sends out it's Rino data via FRS.
> >
> > I am very disappointed, that at the last minute I had to travel to Boston for a job over this weekend.
> >
> > I fly the Rino on all my flights, I have made several GPSL's.
> >
> > Cheers - Nick K0NMS
> >
> >
> > << Is anyone launching going to use a Garmin Rino. I also saw a prediction for the landing site for those balloons and I do not seem to find it now. Where did it go or is my old age really getting to me? Thanks Mike KDØFW
> > >
> >
>

8622. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 03:27:08 UTC
From: L. Paul Verhage
Topic: 8604 Message: 8622

My first flight encountered fogging on ascent. It appears the window on the outside of the airframe got colder than the Styrofoam walls of the airframe. This was a launch from Kansas where we do have a "small" amount of humidity. Since that first flight, I've left left the camera port open to the air and have not suffered fogging for a camera inside the airframe looking out.

I too have suffered fogging on descent (actually my camera did, I wasn't onboard ;)). It seems to be a problem for the camera outside the airframe.

I wonder if you can use a small CPU fan to blow air across the camera on descent?

Paul

On Fri, Oct 1, 2010 at 8:34 PM, Mike Manes <mrmanes@...> wrote:

> The only time I've run into condensation problems is during descent thru a
> thick cloud layer - the payload guts are cold, and the ambient wet air is
> infiltrating during descent. One trick that seemed to work a bit was to
> install a breather port packed with silica gel desiccant. The port was
> made from a pill bottle with the top and bottom perforated with 0.063"
> drilled holes.
>
> 73 de Mike W5VSI
>
> On 10/1/2010 13:01, Tim wrote:
> >
> >
> > <<I like the title of Project Finance Department!!>> Thanks Paul I do
> too,
> > however I like Dad much more.
> >
> > I am curious to know if you were using hand warmers when the fogging
> occurred?
> > On one of Brenden's attempts he used hand warmers and when we retrieved
> it
> > 45minutes after lift off the gear inside was so hot you could hardly
> touch it.
> > (This flight never made it passed 10k and is a long story for another
> thread.)
> > My point is condensation/fogging is caused by differences in temperature
> > inside to out. The flight from which these pictures came, his payload was
> not
> > even close to air tight, so the temp on the inside was the same as the

> > outside. On this flight he insulated the batteries from the cold and some
> of
> > the electronics but the camera was left to fend for itself. Yes some were
> > underexposed but none were fogged.
> >
> > Thoughts?
> >
> > What are others doing to fight condensation?
> >
> > Tim
> > Brenden's Dad/Project Finance Dept
> >
> >
> >
> >
> ---
> > *From:* L. Paul Verhage <nearsys@...>
> > *To:* GPSL@yahoogroups.com
> > *Sent:* Fri, October 1, 2010 11:41:41 AM
> > *Subject:* Re: [GPSL] New Pictues
> >
> > Is the UV filter on the camera lens? On the lens shoudl be fine since the
> air
> > should be dry inside the camera lens.
> > One thing I discovered is you don't want to put a filter on the airframe.
> > Moisture inside will condense on the window to create fogging.
> > I like the title of Project Finance Department!!
> >
> > Paul
> > On Fri, Oct 1, 2010 at 1:35 PM, Roger Hammond <kc0mwm@...
> > <mailto:kc0mwm@...>> wrote:
> >
> >
> >
> > Good job guys!
> >
> > Roger KC0MWM
> > CNNSP
> >
> >
> > On Fri, Oct 1, 2010 at 1:29 PM, Tim <sarbresam@...
> > <mailto:sarbresam@...>> wrote:
> >
> >
> >
> > Yes I am very proud of Brenden.
> >
> > Photography is my hobby so I helped with the camera setup. I told
> > Brenden what the camera should do and he figured how to do with
> CHDK.

> > I have seen a bunch of photos that were blurred from payload
> spin. I
> > had Brenden set up the camera in aperture priority (AV) mode with
> a
> > shutter speed of 1/500. He also setup the camera to take RAW &
> JPG
> > photos, however the RAW photos failed. He used a Canon A470 which
> has
> > a very small 5.75 x 4.31 mm sensor, which with a high shutter
> speed
> > and a small sensor you are bound to have them come out under
> exposed.
> > I didn't think it would be a big deal because he would have RAW
> images
> > that I could pull out the detail. The other problem was not being
> able
> > to use a UV/Haze filter. His next flight I hope he will be flying
> a
> > G11. The G11 will allow him to use filters and it has a much
> bigger
> > sensor. The G12 is coming out soon so I am hunting eBay for a
> cheap G11.
> >
> > Tim
> > Brenden's Dad/Project Finance Dept
> >
> >
> >
> ---
> > *From:* L. Paul Verhage <nearsys@... <mailto:
> nearsys@...>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > *Sent:* Fri, October 1, 2010 10:18:00 AM
> >
> > *Subject:* Re: [GPSL] New Pictues
> >
> > Yes congrats.
> > You know, I suppose you could get a picture of the Pacific from
> Iowa
> > if you can get the balloon high enough. My calculation shows you
> just
> > ned to get the balloon to an altitude of 2.7 million feet. Ummm,
> how
> > much helium wil that take?
> > Usually I see problems with picture exposure when the camera's
> light
> > detector is covered. But that results in over exposed pictures. I
> > wonder can result in underexposed?
> > Paul
> >

> > On Fri, Oct 1, 2010 at 11:53 AM, Pete Lilja <plilja@...
> > <mailto:plilja@...>> wrote:
> >
> >
> >
> > Very nice. You've got to be proud of your son. He seems to do
> a
> > lot of cool stuff!
> >
> > That landing did look close. But that makes for an easy
> recovery.
> > We don't worry too much about that here in Iowa. But we can't
> get
> > pix of the Pacific, either.
> >
> > It seems the pix are a bit underexposed. I find it's really
> > difficult to get good exposures throughout a flight.
> Underexposure
> > is, or so I'm told, better than over-exposure. The details
> are
> > still there - your just gotta coax them out with software.
> >
> > Very nice! thanks for posting the link.
> >
> > Pete
> >
> > On Thu, Sep 30, 2010 at 5:56 PM, Tim <sarbresam@...
> > <mailto:sarbresam@...>> wrote:
> >
> > Sorry.
> >
> > I posted them in the Photos section of the GPSL site.
> >
> > here is a link...
> >
> http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list
> >
> > Tim
> >
> >
> ---
> > *From:* Pete Lilja <plilja@... <mailto:
> plilja@...>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > *Sent:* Thu, September 30, 2010 3:51:20 PM
> > *Subject:* Re: [GPSL] New Pictues
> >
> > You posted them where?
> >
> > Pete

> >
> > On Thu, Sep 30, 2010 at 4:20 PM, sarbresam
> > <sarbresam@... <mailto:sarbresam@...>>
> wrote:
> >
> > I posted some photos from my sons launch on
> 9/26/2010. I
> > thought you would enjoy the images of the Pacific
> ocean
> > and just how close it landed to the freeway. He was
> very
> > lucky.
> >
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8623. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 03:35:52 UTC
From: L. Paul Verhage
Topic: 8609 Message: 8623

Man, there's so much to learn.

Thanks, I know I can count on this group to educate.

Yep, I get a 0.6 volt drop per hour.

I've heard some super caps use aerogel (for their insulation between layers?). I had an opportunity to see aerogel at the National Air and Space Musum. The stuff looks blue cigarette smoke, but frozen in place.

Paul

On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...> wrote:

> At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
> screw up the math. At a constant current, the cap voltage will decay
> linearly all the way to zip. Rate of change of cap voltage:
> dV/dt (V/s) = I(A)/C(F).
> 73 de Mike W5VSI
>
> On 10/1/2010 13:44, wb8elk@... wrote:
> >
> >
> > Paul....you also have to look at the voltage discharge curve on
> > these.......depending on your usable cutoff voltage, you won't get the
> whole
> > capacity on Supercaps....perhaps 30 to 50 percent of the capacity
> depending on
> > your voltage overhead to start and your minimum usable voltage.
> > - Bill WB8ELK
> >
> >
> >
> >
> >
> > -----Original Message-----
> > From: L. Paul Verhage <nearsys@...>
> > To: gpsl@yahoogroups.com
> > Sent: Fri, Oct 1, 2010 12:30 pm
> > Subject: [GPSL] 3,000 F Caps
> >
> > Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run
> your
> > near spacecraft off of one of these charged caps.
> > Here's the link.
> >

> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> > <
> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> >
> > The caps are used electric cars.
> > The are 3 WH. At 2.7 volts, that's just over an amp of current for an
> hour.
> > I'm thinking my near space craft needs less than 0.5 amps of current. I
> would
> > need two of these in parallel for 5.4 volts which is barely enough for
> the LDO
> > voltage regulator I use. However, at 0.9 pounds each, I'm still better
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Onwards and Upwards,
Paul

8624. Re: [GPSL] New Pictues

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 03:53:12 UTC
From: Mike Manes
Topic: 8604 Message: 8624

Using a window over the camera view port is a mixed bag. Yes, it can fog up, but it also keeps dust out of the camera. One of the Canon 560's nastier failure modes is getting dirt in the lens extension mechanism. Eastern CO is typical of the dust bowl of the '30's in the summer.

I use a very thin film window (ink jet transparency stock with the rough side cleaned up with isopropyl rubbing alcohol). The thin stock may allow internal heat generated by the camera to keep the window fog-free if it's very close to the lens.

I've not had a great deal of luck using RainX to prevent fogging on this material, however.

73 de Mike W5VSI

On 10/1/2010 21:27, L. Paul Verhage wrote:
>
>
> My first flight encountered fogging on ascent. It appears the window on the
> outside of the airframe got colder than the Styrofoam walls of the airframe.
> This was a launch from Kansas where we do have a "small" amount of humidity.
> Since that first flight, I've left left the camera port open to the air and
> have not suffered fogging for a camera inside the airframe looking out.
> I too have suffered fogging on descent (actually my camera did, I wasn't
> onboard ;)). It seems to be a problem for the camera outside the airframe.
> I wonder if you can use a small CPU fan to blow air across the camera on descent?
> Paul
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> drilled holes.
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> > <<I like the title of Project Finance Department!!>> Thanks Paul I do too,
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> > I am curious to know if you were using hand warmers when the fogging
> occurred?
> > On one of Brenden's attempts he used hand warmers and when we retrieved it
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> touch it.
> > (This flight never made it passed 10k and is a long story for another
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> > My point is condensation/fogging is caused by differences in temperature
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> > *Sent:* Fri, October 1, 2010 11:41:41 AM
> > *Subject:* Re: [GPSL] New Pictues
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> > *From:* L. Paul Verhage <nearsys@...
> <mailto:nearsys@...> <mailto:nearsys@...
> <mailto:nearsys@...>>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
> > *Sent:* Fri, October 1, 2010 10:18:00 AM
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> > *Subject:* Re: [GPSL] New Pictues
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> > Yes congrats.
> > You know, I suppose you could get a picture of the Pacific from
> Iowa
> > if you can get the balloon high enough. My calculation shows

> you just
> > ned to get the balloon to an altitude of 2.7 million feet.
> Ummm, how
> > much helium wil that take?
> > Usually I see problems with picture exposure when the camera's
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> > here is a link...
> > http://groups.yahoo.com/group/GPSL/photos/album/10585105/pic/list
> >
> > Tim
> >
> >
> > --

> > *From:* Pete Lilja <plilja@...
> <mailto:plilja@...> <mailto:plilja@... <mailto:plilja@...>>>
> > *To:* GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com> <mailto:GPSL@yahoogroups.com
> <mailto:GPSL@yahoogroups.com>>
> > *Sent:* Thu, September 30, 2010 3:51:20 PM
> > *Subject:* Re: [GPSL] New Pictues
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> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
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A. Einstein

8625. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 04:02:41 UTC
From: Mike Manes
Topic: 8609 Message: 8625

Supercaps are technically known as double-layer caps from the fact that the two plates are essentially identical but separated by a very thin (nanometers thick) non-conductive (dielectric?) layer. See:

http://en.wikipedia.org/wiki/Electric_double-layer_capacitor

This thin separator is responsible for the low breakdown voltage, typically less than 5V.

73 de Mike W5VSI

On 10/1/2010 21:35, L. Paul Verhage wrote:
>
>
> Man, there's so much to learn.
> Thanks, I know I can count on this group to educate.
> Yep, I get a 0.6 volt drop per hour.
> I've heard some super caps use aerogel (for their insulation between
> layers?). I had an opportunity to see aerogel at the National Air and Space
> Musum. The stuff looks blue cigarette smoke, but frozen in place.
> Paul
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> On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...
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> At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
> screw up the math. At a constant current, the cap voltage will decay
> linearly all the way to zip. Rate of change of cap voltage:
> dV/dt (V/s) = I(A)/C(F).
> 73 de Mike W5VSI
>
> On 10/1/2010 13:44, wb8elk@... <mailto:wb8elk@...> wrote:
> >
> >
> > Paul....you also have to look at the voltage discharge curve on
> > these.......depending on your usable cutoff voltage, you won't get the
> whole
> > capacity on Supercaps....perhaps 30 to 50 percent of the capacity
> depending on
> > your voltage overhead to start and your minimum usable voltage.
> > - Bill WB8ELK
> >
> >
> >
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> > -----Original Message-----
> > From: L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> > To: gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> > Sent: Fri, Oct 1, 2010 12:30 pm
> > Subject: [GPSL] 3,000 F Caps
> >
> > Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could
> run your
> > near spacecraft off of one of these charged caps.
> > Here's the link.
> >
> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email>
> >
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email>>
> > The caps are used electric cars.
> > The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour.
> > I'm thinking my near space craft needs less than 0.5 amps of current. I
> would
> > need two of these in parallel for 5.4 volts which is barely enough for
> the LDO
> > voltage regulator I use. However, at 0.9 pounds each, I'm still better off
> > with batteries.
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8626. Re: [GPSL] Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 04:21:33 UTC
From: Mike Bogard
Topic: 6119 Message: 8626

Thanks for the info on the Rino 110. I have two of them and have not used them for some time. I think that the last time I used them was for your flight. I have it set to Channel 7 and code Zero. It is to bad that you missed the launch and the chase and recovery of two of the balloon payloads. The third is MIA and may get located on Saturday. What is the max altitude for the Rino 110? Mike

8627. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 09:21:55 UTC
From: wb8elk@aol.com
Topic: 8609 Message: 8627

We flew Aerogel to capture meteor particles during the Leonids meteor storm 10 years ago....great stuff...like a cloud and as light.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Fri, Oct 1, 2010 10:35 pm
Subject: Re: [GPSL] 3,000 F Caps

Man, there's so much to learn.

Thanks, I know I can count on this group to educate.

Yep, I get a 0.6 volt drop per hour.

I've heard some super caps use aerogel (for their insulation between layers?). I had an opportunity to see aerogel at the National Air and Space Musum. The stuff looks blue cigarette smoke, but frozen in place.

Paul

On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...> wrote:

At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
screw up the math. At a constant current, the cap voltage will decay
linearly all the way to zip. Rate of change of cap voltage:
dV/dt (V/s) = I(A)/C(F).
73 de Mike W5VSI

On 10/1/2010 13:44, wb8elk@... wrote:
>
>
> Paul....you also have to look at the voltage discharge curve on
> these.......depending on your usable cutoff voltage, you won't get the whole
> capacity on Supercaps....perhaps 30 to 50 percent of the capacity depending on
> your voltage overhead to start and your minimum usable voltage.
> - Bill WB8ELK
>
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>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@gmail.com>
> To: gpsl@yahoogroups.com

> Sent: Fri, Oct 1, 2010 12:30 pm
> Subject: [GPSL] 3,000 F Caps
>
> Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your
> near spacecraft off of one of these charged caps.
> Here's the link.
> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email>
> The caps are used electric cars.
> The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour.
> I'm thinking my near space craft needs less than 0.5 amps of current. I would
> need two of these in parallel for 5.4 volts which is barely enough for the LDO
> voltage regulator I use. However, at 0.9 pounds each, I'm still better off
> with batteries.
>
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> Onwards and Upwards,
> Paul
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

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Onwards and Upwards,
Paul

8628. Re: [UPDATE] iHAB-2 Launch Update

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 14:02:25 UTC
From: Joe
Topic: 8628 Message: 8628
Attachments: 1 described; binary payloads are missing from this source WARC

Anyone know how to log into the chat room?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 9/25/2010 8:27 PM, w0otm@... wrote:
>
> *
>
> iHAB - Iowa High Alititude Ballon Project
>
> ** Reminder **
> iHAB-2 Launch
> Sponsored by: QRP ARCI
>
> Saturday - October 2, 2010
> Preflight: 13:00Z - 8AM CDT
> Launch: 14:00Z - 9AM CDT
> Ottumwa Industrial Airport - - IHCC North Campus - Aviation Building
>
> LIVE! WEBCAST of the launch : http://www.w0otm.com/iHAB/iHAB-2/
>
> FlightComm:
>
> 146.970- Tone: 100
> Echolink: KE0BX-R - #13213
>
> 20M CW Beacon:
> 14.059.0Mhz
> "K6JSS iHAB-2"
> Signal Reports - http://www.qrpspots.com
> PLEASE SPOT ON CLUSTERS
>
> Complete iHAB-2 Details : http://www.w0otm.com/iHAB/iHAB-2/
>
> ** Mission Status **
> Flightpath Predictions are now posted on the iHAB-2 website. Looks
> like iHAB-2 will be crossing state lines into Missouri.
>
> Flight preparedness is moving along on schedule. Final systems tests
> will be conducted starting Monday September 27th. WA0ITP has

> completed the new and improved Class E Amp based 20M QRP rig. Final
> payload weights will be available later this week, but preliminary
> weights are indicating a ~500g weight reduction from iHAB-1.
>
> Don't forget to visit QRP ARCI http://www.qrparci.org for details on
> iHAB-2 activities sponsored by QRP ARCI - QRP Amateur Radio Club
> International.
>
> We are excited about this launch!
>
> Keep Looking Up!
> iHAB Team
>
> *
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> --
> To unsubscribe from this list visit this link
> <http://www.w0otm.com/lists/?p=unsubscribe&uid=0acebb9bfe71b6f8dd1cfb9eb34d1e00>
>
> To update your preferences visit this link
> <http://www.w0otm.com/lists/?p=preferences&uid=0acebb9bfe71b6f8dd1cfb9eb34d1e00>

8629. Balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 15:56:24 UTC
From: Joe
Topic: 8629 Message: 8629
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.dxwatch.com/dxsd1.php?f=0&t=dx&c=K6JSS
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8630. What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 22:15:14 UTC
From: Brenden Geary
Topic: 8630 Message: 8630

What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in the same place, or does it not orbit with the earth and looking over different areas.

Brenden Geary

8631. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 23:12:46 UTC
From: Mike Manes
Topic: 8630 Message: 8631

Hi Brendon,

It will hang in the local air mass and therefore will move with it, same way
any other balloon does.

73 de Mike W5VSI

On 10/2/2010 16:15, Brenden Geary wrote:
> What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in
the same place, or does it not orbit with the earth and looking over different areas.
>
> Brenden Geary
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8632. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 23:45:53 UTC
From: Brenden Geary
Topic: 8630 Message: 8632

If your balloon is able to last for several days it will stay in the same general area as launch. Thanks for the quick reply.

--- On Sat, 10/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
To: GPSL@yahoogroups.com
Cc: "Brenden Geary" <bjgeary@...>
Date: Saturday, October 2, 2010, 4:12 PM

Hi Brendon,

It will hang in the local air mass and therefore will move with it, same way

any other balloon does.

73 de Mike W5VSI

On 10/2/2010 16:15, Brenden Geary wrote:

> What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in the same place, or does it not orbit with the earth and looking over different areas.

>

> Brenden Geary

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> Yahoo! Groups Links

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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

8633. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-02 23:50:17 UTC
From: Mike Manes
Topic: 8630 Message: 8633

No, Brendan. I said it will stay with the air mass, and the air mass
typically moves over the Earth's surface - it's called "wind".

On 10/2/2010 17:45, Brenden Geary wrote:
>
>
> If your balloon is able to last for several days it will stay in the same
> general area as launch. Thanks for the quick reply.
>
> --- On *Sat, 10/2/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Saturday, October 2, 2010, 4:12 PM
>
> Hi Brendon,
>
> It will hang in the local air mass and therefore will move with it, same way
> any other balloon does.
>
> 73 de Mike W5VSI
>
> On 10/2/2010 16:15, Brenden Geary wrote:
> > What will happen to a neutrally buoyant balloon. Does it orbit with the
> earth looking in the same place, or does it not orbit with the earth and
> looking over different areas.
> >
> > Brenden Geary
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... </mc/compose?to=mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8634. Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 00:39:16 UTC
From: Keith Kaiser
Topic: 8634 Message: 8634

Today Deb and I went out to look for the week-lost W0B-11 balloon we launched from the BSA Centennial Campout last weekend. We didn't find it. It's here;

http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000

Above is the last position report from the balloon according to aprs.fi, it's also exactly where we started our search today. I used its last position, speed, altitude, direction, etc. to predict a landing spot, it wasn't there either.

I'd like input from any of you who care to help, to give me a new projected touchdown location. Deb and I did a two hour grid sweep of the location and didn't find the balloon. I'm not asking you to go out and find it (unless you want to), what I'm asking for is an alternate touchdown location. Our grid sweep went North an additional 500 feet, then worked East much more than that. The wind that day was very mild at this location and out of the West. This is a very large soy-bean field, the plants mostly brown are about 3 feet high.

Good luck and thanks for any help you care to provide.

8635. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 00:46:23 UTC
From: Dan Bowen
Topic: 8630 Message: 8635

No, that's only true in some cases. What mike said means that the balloon will go wherever the wind goes, at the speed of the wind. For example, we're going to be flying some neutrally buoyant balloons for 3 straight days that should travel for thousands of miles from the launch site. They will travel so far only because we will wait for the fastest wind forecast do decide when to launch. The winds you look at are the ones at your desired float altitude. We could also choose to not go far by waiting for the winds to be very slow, or look for a different altitude that has different wind speed and direction.

Simply, it's all about the wind - your balloon goes where the wind blows it to.

Thanks,
Dan
LVL1 White Star Balloon Team
Http://Whitestarballoon.org

Sent from my iPhone 4

On Oct 2, 2010, at 19:45, Brenden Geary <bjgeary@...> wrote:

> If your balloon is able to last for several days it will stay in the same general area as launch. Thanks for the quick reply.
>
> --- On Sat, 10/2/10, Mike Manes <mrmanes@...> wrote:
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Saturday, October 2, 2010, 4:12 PM
>
>
> Hi Brendon,
>
> It will hang in the local air mass and therefore will move with it, same way
> any other balloon does.
>
> 73 de Mike W5VSI
>
> On 10/2/2010 16:15, Brenden Geary wrote:
> > What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in the same place, or does it not orbit with the earth and looking over different areas.
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> > Brenden Geary
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> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8636. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 00:47:55 UTC
From: Pete Lilja
Topic: 8634 Message: 8636

Yikes! While there are far more qualified folks than I at doing the math for a grid to locate it I'm surprised it's not there. Last position report from 1600 (what's the AGL height?) it shouldn't be too far away.

I have a lot of experience finding downed rockets at from that relatively low height and low ground speed I can't believe it too far from that point. I have learned that quite often every bit of a payload, parachute and harnesses will get sucked all the way to the ground with nothing draped up and over crops and visible from very far away..

Was there any evidence of others being in the field who may have picked it up?

Good luck!

Pete
KC0GPB

On Sat, Oct 2, 2010 at 7:39 PM, Keith Kaiser <wa0tjt@...> wrote:

>
>
> Today Deb and I went out to look for the week-lost W0B-11 balloon we
> launched from the BSA Centennial Campout last weekend. We didn't find it.
> It's here;
>
> http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000
>
> Above is the last position report from the balloon according to aprs.fi,
> it's also exactly where we started our search today. I used its last
> position, speed, altitude, direction, etc. to predict a landing spot, it
> wasn't there either.
>
> I'd like input from any of you who care to help, to give me a new projected
> touchdown location. Deb and I did a two hour grid sweep of the location and
> didn't find the balloon. I'm not asking you to go out and find it (unless
> you want to), what I'm asking for is an alternate touchdown location. Our
> grid sweep went North an additional 500 feet, then worked East much more
> than that. The wind that day was very mild at this location and out of the
> West. This is a very large soy-bean field, the plants mostly brown are about
> 3 feet high.
>
> Good luck and thanks for any help you care to provide.
>
>

8637. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 00:55:41 UTC
From: Dan Bowen
Topic: 8609 Message: 8637

Did you get any meteor bits?

Thanks,
Dan

Sent from my iPhone 4

On Oct 2, 2010, at 5:21, wb8elk@... wrote:

> We flew Aerogel to capture meteor particles during the Leonids meteor storm 10 years ago....great stuff...like a cloud and as light.
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Oct 1, 2010 10:35 pm
> Subject: Re: [GPSL] 3,000 F Caps
>
>
> Man, there's so much to learn.
>
> Thanks, I know I can count on this group to educate.
>
> Yep, I get a 0.6 volt drop per hour.
>
> I've heard some super caps use aerogel (for their insulation between layers?). I had an opportunity to see aerogel at the National Air and Space Musum. The stuff looks blue cigarette smoke, but frozen in place.
>
> Paul
>
> On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...> wrote:
> At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
> screw up the math. At a constant current, the cap voltage will decay
> linearly all the way to zip. Rate of change of cap voltage:
> dV/dt (V/s) = I(A)/C(F).
> 73 de Mike W5VSI
>
> On 10/1/2010 13:44, wb8elk@... wrote:
> >
> >
> > Paul....you also have to look at the voltage discharge curve on

> > these.......depending on your usable cutoff voltage, you won't get the whole
> > capacity on Supercaps....perhaps 30 to 50 percent of the capacity depending on
> > your voltage overhead to start and your minimum usable voltage.
> > - Bill WB8ELK
> >
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> >
> > -----Original Message-----
> > From: L. Paul Verhage <nearsys@...>
> > To: gpsl@yahoogroups.com
> > Sent: Fri, Oct 1, 2010 12:30 pm
> > Subject: [GPSL] 3,000 F Caps
> >
> > Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your
> > near spacecraft off of one of these charged caps.
> > Here's the link.
> > http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newsle
tter&utm_campaign=bb9a1752fe-September30&utm_medium=email
> > <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newsl
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> > The caps are used electric cars.
> > The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour.
> > I'm thinking my near space craft needs less than 0.5 amps of current. I would
> > need two of these in parallel for 5.4 volts which is barely enough for the LDO
> > voltage regulator I use. However, at 0.9 pounds each, I'm still better off
> > with batteries.
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> > Onwards and Upwards,
> > Paul
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> Mike Manes mrmanes@... Tel: 303-979-4899
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> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
>

8638. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 03:23:53 UTC
From: Keith Kaiser
Topic: 8634 Message: 8638

The AGL is 640 feet, at the location of the last transmission.

On Oct 2, 2010, at 7:47 PM, Pete Lilja wrote:

> Yikes! While there are far more qualified folks than I at doing the math for a grid to locate it I'm surprised it's not there. Last position report from 1600 (what's the AGL height?) it shouldn't be too far away.
>
> I have a lot of experience finding downed rockets at from that relatively low height and low ground speed I can't believe it too far from that point. I have learned that quite often every bit of a payload, parachute and harnesses will get sucked all the way to the ground with nothing draped up and over crops and visible from very far away..
>
> Was there any evidence of others being in the field who may have picked it up?
>
> Good luck!
>
> Pete
> KC0GPB
>
>
> On Sat, Oct 2, 2010 at 7:39 PM, Keith Kaiser <wa0tjt@...> wrote:
>
> Today Deb and I went out to look for the week-lost W0B-11 balloon we launched from the BSA Centennial Campout last weekend. We didn't find it. It's here;
>
> http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000
>
> Above is the last position report from the balloon according to aprs.fi, it's also exactly where we started our search today. I used its last position, speed, altitude, direction, etc. to predict a landing spot, it wasn't there either.
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> I'd like input from any of you who care to help, to give me a new projected touchdown location. Deb and I did a two hour grid sweep of the location and didn't find the balloon. I'm not asking you to go out and find it (unless you want to), what I'm asking for is an alternate touchdown location. Our grid sweep went North an additional 500 feet, then worked East much more than that. The wind that day was very mild at this location and out of the West. This is a very large soy-bean field, the plants mostly brown are about 3 feet high.
>
> Good luck and thanks for any help you care to provide.
>
>
>
>

8639. Re: [GPSL] CHDK - Camera/Servo Control

Yahoo group: GPSL (2009 — 2010)
Date: 2010-09-26 01:36:58 UTC
From: L. Paul Verhage
Topic: 8453 Message: 8639

There is a USB remote scrip that detects when you send +5V to the USB port.
It's discused in my N&V articles. What you're saying is simple to
implement.

Paul

On Fri, Sep 24, 2010 at 9:30 PM, Mike Manes <mrmanes@...> wrote:

> Interesting, using the focus assist lamp as an output device under
> script control. The EOSS SamCam2 uses the status LEDs near the
> viewfinder to detect when the camera shoots. This sig goes to a
> PICAXE8 that drives an elevation servo to next of 3 positions:
> down, horizon and up.
>
> What would be cool would be some means to set up a binary input
> to the camera that could be read by the script - one that didn't
> involve bringing out button contacts, of course. Maybe via the
> USB port?
>
> 73 de Mike W5VSI
>
> On 9/11/2010 16:36, HarryM wrote:
> >
> >
> > Here's a couple of interesting links to
> > camera/servo control using uBasic, SDM
> > and a Canon camera.
> > http://www.gentles.ltd.uk/clickpan/
> > http://www.zenoshrdlu.com/clickpansdm/
> > SDM & Others
> > http://stereo.jpn.org/eng/
> >
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8640. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 05:43:27 UTC
From: wb8elk@aol.com
Topic: 8630 Message: 8640

Brenden,

Depending on the winds speeds and direction at the altitude where you balloon hit neutral buoyancy (we call that a "float" condition)....it could potentially be traveling as fast as 200 mph if it's in the jet stream during the winter....or hardly moving at all during the Summer....there are different winds at different altitudes.

For example, I had several balloons parked at 100,000 feet or so for 22 hours that went from Alabama all the way to Nova Scotia Canada....that was in December....I did a flight in April that stayed over Tennessee all night long at 100,000 feet sinced at that time of year there were no winds to speak of at that altitude.,

Hope that helps,

- Bill Brown WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Brenden Geary <bjgeary@...>
Sent: Sat, Oct 2, 2010 6:50 pm
Subject: Re: [GPSL] What happens to a neutrally buoyant balloon

No, Brendan. I said it will stay with the air mass, and the air mass
typically moves over the Earth's surface - it's called "wind".

On 10/2/2010 17:45, Brenden Geary wrote:
>
>
> If your balloon is able to last for several days it will stay in the same
> general area as launch. Thanks for the quick reply.
>
> --- On *Sat, 10/2/10, Mike Manes /<mrmanes@...>/* wrote:
>
>
> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
> To: GPSL@yahoogroups.com
> Cc: "Brenden Geary" <bjgeary@...>
> Date: Saturday, October 2, 2010, 4:12 PM
>
> Hi Brendon,
>
> It will hang in the local air mass and therefore will move with it, same way
> any other balloon does.
>
> 73 de Mike W5VSI

>
> On 10/2/2010 16:15, Brenden Geary wrote:
> > What will happen to a neutrally buoyant balloon. Does it orbit with the
> earth looking in the same place, or does it not orbit with the earth and
> looking over different areas.
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> > Brenden Geary
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> --
> Mike Manes mrmanes@... </mc/compose?to=mrmanes%40gmail.com> Tel:
> 303-979-4899
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> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

8641. [GPSL] Aerogel meteor capture balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 05:49:41 UTC
From: wb8elk@aol.com
Topic: 8609 Message: 8641

Dan....yes, there is one impact crater in the Aerogel that came from a Leonid (perhaps more) while the balloon was in the stratosphere.

I can't find the web page that described the results of the analysis on the Aerogel...but here's a link about the balloon flight itself...I helped with several of these from 1998 to 2001.

http://spacescience.spaceref.com/newhome/headlines/ast14apr99_1.htm

- Bill WB8ELK

-----Original Message-----
From: Dan Bowen <dbowen1@...>
To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Sent: Sat, Oct 2, 2010 7:55 pm
Subject: Re: [GPSL] 3,000 F Caps

Did you get any meteor bits?

Thanks,
Dan

Sent from my iPhone 4

On Oct 2, 2010, at 5:21, wb8elk@... wrote:

We flew Aerogel to capture meteor particles during the Leonids meteor storm 10 years ago....great stuff...like a cloud and as light.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Fri, Oct 1, 2010 10:35 pm
Subject: Re: [GPSL] 3,000 F Caps

Man, there's so much to learn.

Thanks, I know I can count on this group to educate.

Yep, I get a 0.6 volt drop per hour.

I've heard some super caps use aerogel (for their insulation between layers?). I had an opportunity to see aerogel at the National Air and Space Musum. The stuff looks blue cigarette smoke, but frozen in place.

Paul

On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...> wrote:

At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
screw up the math. At a constant current, the cap voltage will decay
linearly all the way to zip. Rate of change of cap voltage:
dV/dt (V/s) = I(A)/C(F).
73 de Mike W5VSI

On 10/1/2010 13:44, wb8elk@... wrote:
>
>
> Paul....you also have to look at the voltage discharge curve on
> these.......depending on your usable cutoff voltage, you won't get the whole
> capacity on Supercaps....perhaps 30 to 50 percent of the capacity depending on
> your voltage overhead to start and your minimum usable voltage.
> - Bill WB8ELK
>
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> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: gpsl@yahoogroups.com
> Sent: Fri, Oct 1, 2010 12:30 pm
> Subject: [GPSL] 3,000 F Caps
>
> Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run your
> near spacecraft off of one of these charged caps.
> Here's the link.
> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslett
er&utm_campaign=bb9a1752fe-September30&utm_medium=email
> <http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email>
> The caps are used electric cars.
> The are 3 WH. At 2.7 volts, that's just over an amp of current for an hour.
> I'm thinking my near space craft needs less than 0.5 amps of current. I would
> need two of these in parallel for 5.4 volts which is barely enough for the LDO
> voltage regulator I use. However, at 0.9 pounds each, I'm still better off
> with batteries.
>
> --
> Onwards and Upwards,
> Paul
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>

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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

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Onwards and Upwards,
Paul

8642. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 05:57:52 UTC
From: wb8elk@aol.com
Topic: 8634 Message: 8642

Keith,

I landed in a soy bean field this Summer....waist high....I had to be within 5 feet of the payload (same for the parachute and balloon) to see them...the only way I found it was by tripping over the string which was also almost impossible to see.

The parachute and balloon were wadded up in a ball and on the ground covered over by dense soybeans....I had to follow the string to even find the chute. The payload also was in the dirt and also covered over by the leaves.

I was standing at the last coordinates for the landing site....and nothing....turned out to be 50 feet away and totally invisible...that third decimal digit on the GPS reading (which is not reported on APRS) is plus or minus that amount.and can make all the difference in a soybean field.

They will be harvesting that field VERY soon....you might want to contact the farmer to keep an eye out for it....I'm sure he wouldn't want to run it through his combine without some warning.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: GPSL@yahoogroups.com
Sent: Sat, Oct 2, 2010 10:23 pm
Subject: Re: [GPSL] Balloon Location Challenge

The AGL is 640 feet, at the location of the last transmission.

On Oct 2, 2010, at 7:47 PM, Pete Lilja wrote:

Yikes! While there are far more qualified folks than I at doing the math for a grid to locate it I'm surprised it's not there. Last position report from 1600 (what's the AGL height?) it shouldn't be too far away.

I have a lot of experience finding downed rockets at from that relatively low height and low ground speed I can't believe it too far from that point. I have learned that quite often every bit of a payload, parachute and harnesses will get sucked all the way to the ground with nothing draped up and over crops and visible from very far away..

Was there any evidence of others being in the field who may have picked it up?

Good luck!

Pete
KC0GPB

On Sat, Oct 2, 2010 at 7:39 PM, Keith Kaiser <wa0tjt@...> wrote:

Today Deb and I went out to look for the week-lost W0B-11 balloon we launched from the BSA Centennial Campout last weekend. We didn't find it. It's here;

http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000

Above is the last position report from the balloon according to aprs.fi, it's also exactly where we started our search today. I used its last position, speed, altitude, direction, etc. to predict a landing spot, it wasn't there either.

I'd like input from any of you who care to help, to give me a new projected touchdown location. Deb and I did a two hour grid sweep of the location and didn't find the balloon. I'm not asking you to go out and find it (unless you want to), what I'm asking for is an alternate touchdown location. Our grid sweep went North an additional 500 feet, then worked East much more than that. The wind that day was very mild at this location and out of the West. This is a very large soy-bean field, the plants mostly brown are about 3 feet high.

Good luck and thanks for any help you care to provide.

8643. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 06:32:03 UTC
From: wb8elk@aol.com
Topic: 8634 Message: 8643

Keith,

The W0B-11 balloon was descending at about 778 ft/min....based on ground elevation and the 1698 feet altitude of the last position report that would mean it had 1.3 minutes left to land. The tricky part is exactly how strong the winds were on the surface....it was heading due north as a general trend....even your launch was traveling due north immediately after liftoff... W0A-11 was heading due north as well just before landing....i'd check the actual landing site for W0A-11 compared with the last reading...(I don't have the actual landing site for W0A-11 or W0S...that would help determine what it did during that last 1.3 minutes)...it probably followed the same sort of path that W0A-11 did....W0S did a hook to the southwest...but that was 2 hours later and probably not a good estimate. So my recommendation is to look at where W0A-11 landed in relationship to it's last report and use that as an estimate for W0B-11 from it's last report. If you can send me the actual W0A-11 landing location as well as the W0S landing position I might be able to refined it more for you.

- Bill WB8ELK

-----Original Message-----
From: Keith Kaiser <wa0tjt@...>
To: gpsl <GPSL@yahoogroups.com>; balloonatics@yahoogroups.com
Cc: Deb Kaiser <dlkaiser@...>
Sent: Sat, Oct 2, 2010 7:39 pm
Subject: [GPSL] Balloon Location Challenge

Today Deb and I went out to look for the week-lost W0B-11 balloon we launched from the BSA Centennial Campout last weekend. We didn't find it. It's here;

http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000

Above is the last position report from the balloon according to aprs.fi, it's also exactly where we started our search today. I used its last position, speed, altitude, direction, etc. to predict a landing spot, it wasn't there either.

I'd like input from any of you who care to help, to give me a new projected touchdown location. Deb and I did a two hour grid sweep of the location and didn't find the balloon. I'm not asking you to go out and find it (unless you want to), what I'm asking for is an alternate touchdown location. Our grid sweep went North an additional 500 feet, then worked East much more than that. The wind that day was very mild at this location and out of the West. This is a very large soy-bean field, the plants mostly brown are about 3 feet high.

Good luck and thanks for any help you care to provide.

8644. Re: [GPSL] 3,000 F Caps

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 17:39:43 UTC
From: L. Paul Verhage
Topic: 8609 Message: 8644

You know, my understanding is that some of the dust that washes off your roof and down the rain gutter is meteoritic dust. The problem is that you can't tell which is extraterrestrial and which is terrestrial without a serious microscope.

At least if you capture it in the stratosphere, it's extraterrestrial unless there has been a serious volcanic eruption or meteor impact.

Paul "Hey, don't brush that dust off my furniture, it's from space!" Verhage

On Sat, Oct 2, 2010 at 7:55 PM, Dan Bowen <dbowen1@...> wrote:

>
>
> Did you get any meteor bits?
>
> Thanks,
> Dan
>
>
> Sent from my iPhone 4
>
> On Oct 2, 2010, at 5:21, wb8elk@... wrote:
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> We flew Aerogel to capture meteor particles during the Leonids meteor storm
> 10 years ago....great stuff...like a cloud and as light.
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> - Bill WB8ELK
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> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: GPSL@yahoogroups.com
> Sent: Fri, Oct 1, 2010 10:35 pm
> Subject: Re: [GPSL] 3,000 F Caps
>
>
> Man, there's so much to learn.
>
> Thanks, I know I can count on this group to educate.
>
> Yep, I get a 0.6 volt drop per hour.
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> I've heard some super caps use aerogel (for their insulation between
> layers?). I had an opportunity to see aerogel at the National Air and Space
> Musum. The stuff looks blue cigarette smoke, but frozen in place.
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> Paul
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> On Fri, Oct 1, 2010 at 8:41 PM, Mike Manes <mrmanes@...> wrote:
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>> At a 500 mA load, a 3000 F cap will discharge 0.6V per hour, if I didn't
>> screw up the math. At a constant current, the cap voltage will decay
>> linearly all the way to zip. Rate of change of cap voltage:
>> dV/dt (V/s) = I(A)/C(F).
>> 73 de Mike W5VSI
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>> On 10/1/2010 13:44, wb8elk@... wrote:
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>> > these.......depending on your usable cutoff voltage, you won't get the
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>> > From: L. Paul Verhage <nearsys@...>
>> > To: gpsl@yahoogroups.com
>> > Sent: Fri, Oct 1, 2010 12:30 pm
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>> > Does anyone need a 3,000 F, 2.7 volt, 3 KW capacitor? Man, you could run
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>> > near spacecraft off of one of these charged caps.
>> > Here's the link.
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>> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email
>> > <
>> http://www.goldmine-elec.com/mailchimp/20100930/?utm_source=Electronic+Goldmine+Newslet
ter&utm_campaign=bb9a1752fe-September30&utm_medium=email
>> >
>> > The caps are used electric cars.
>> > The are 3 WH. At 2.7 volts, that's just over an amp of current for an
>> hour.
>> > I'm thinking my near space craft needs less than 0.5 amps of current. I

>> would
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>> the LDO
>> > voltage regulator I use. However, at 0.9 pounds each, I'm still better
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>> > with batteries.
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>> > Onwards and Upwards,
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>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
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> Onwards and Upwards,
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Onwards and Upwards,
Paul

8645. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 17:42:16 UTC
From: L. Paul Verhage
Topic: 8630 Message: 8645

It's a nice thing to do in Antartica, the balloon drifts around the South Pole in about a week's time.

Almost as if you were orbiting the pole.

Paul

On Sun, Oct 3, 2010 at 12:43 AM, <wb8elk@...> wrote:

>
>
> Brenden,
>
> Depending on the winds speeds and direction at the altitude where you
> balloon hit neutral buoyancy (we call that a "float" condition)....it could
> potentially be traveling as fast as 200 mph if it's in the jet stream during
> the winter....or hardly moving at all during the Summer....there are
> different winds at different altitudes.
>
> For example, I had several balloons parked at 100,000 feet or so for 22
> hours that went from Alabama all the way to Nova Scotia Canada....that was
> in December....I did a flight in April that stayed over Tennessee all night
> long at 100,000 feet sinced at that time of year there were no winds to
> speak of at that altitude.,
>
> Hope that helps,
>
> - Bill Brown WB8ELK
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> -----Original Message-----
> From: Mike Manes <mrmanes@...>
> To: GPSL@yahoogroups.com
> Cc: Brenden Geary <bjgeary@...>
> Sent: Sat, Oct 2, 2010 6:50 pm
> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
>
>
> No, Brendan. I said it will stay with the air mass, and the air mass
> typically moves over the Earth's surface - it's called "wind".
>
> On 10/2/2010 17:45, Brenden Geary wrote:
> >

> >
> > If your balloon is able to last for several days it will stay in the same
> > general area as launch. Thanks for the quick reply.
> >
> > --- On *Sat, 10/2/10, Mike Manes /<mrmanes@...<mrmanes%40gmail.com>>/*
> wrote:
> >
> >
> > From: Mike Manes <mrmanes@... <mrmanes%40gmail.com>>
> > Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
> > To: GPSL@yahoogroups.com <GPSL%40yahoogroups.com>
> > Cc: "Brenden Geary" <bjgeary@... <bjgeary%40yahoo.com>>
> > Date: Saturday, October 2, 2010, 4:12 PM
> >
> > Hi Brendon,
> >
> > It will hang in the local air mass and therefore will move with it, same
> way
> > any other balloon does.
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> > 73 de Mike W5VSI
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> > On 10/2/2010 16:15, Brenden Geary wrote:
> > > What will happen to a neutrally buoyant balloon. Does it orbit with the
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> > --
> > Mike Manes mrmanes@... <mrmanes%40gmail.com></mc/compose?to=mrmanes%
> 40gmail.com> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
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> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
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Onwards and Upwards,
Paul

8646. Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-03 23:36:37 UTC
From: Nicholas
Topic: 6119 Message: 8646

Mike the Rino works above 100K in the NEMA output so it will still provide the GPS data to the APRS stystem.

But because of internal coding it is limited to just over 98K while sending information to other Rino's using the FRS freq. Once it is below 98K it again shows the correct altitude.

Nick
K0NMS

>> What is the max altitude for the Rino 110? >>

8647. Mesh network payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 00:02:51 UTC
From: Robert Rochte
Topic: 8647 Message: 8647

Does anyone have experience with flying a mesh network node as a payload?
If so, any links or info about the project would be much appreciated.

Thanks.

73,
Robert
KC8UCH

8648. Re: [GPSL] Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 01:43:53 UTC
From: Meer, Stephen
Topic: 6119 Message: 8648

Nick (or anyone else for that matter),
Do you have any info about the over the air protocol used in these radios. I am interested in decoding for display on a PC based map.

Thanks. /s/SM2. K0SCC

This message has been sent via the Intrado Wireless Information Network.

From: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Sent: Sun Oct 03 17:36:37 2010
Subject: [GPSL] Re: Garmin Rino

Mike the Rino works above 100K in the NEMA output so it will still provide the GPS data to the APRS stystem.

But because of internal coding it is limited to just over 98K while sending information to other Rino's using the FRS freq. Once it is below 98K it again shows the correct altitude.

Nick
K0NMS

>> What is the max altitude for the Rino 110? >>

8649. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 03:33:37 UTC
From: Brenden Geary
Topic: 8630 Message: 8649

First of all I would like to thank everybody who answered my question. I am doing a science fair project and have a few questions. First here is what I am doing. I want to launch a repeater to near space that you can use during a natural disaster or other emergency. I have two ideas on how I can do it.

Version 1.0
Have a payload with a lightweight repeater, tracking and a gps. Along with a parachute, balloon, and antenna. The balloon will only will only have 1 pound of extra lift, so there will be a slow accent to 100,000. Then a large parachute for a slow decent. The reason for a slow accent and decent is for a long flight time is to maximize the amount of time the repeater is in the air. Even with that it will only be in the air for 2 - 5 hours. This could give the needed time to setup a more permeant solution or there could be more then one balloon that could launched and recovered and launched again as a longer solution.

Version 2.0
Have a payload with a lightweight repeater, tracker, and a gps. Along with a parachute, balloon, antenna, flasher light, and radar reflector. The balloon will be inflated for it to float around a the altitudes of 250ft(tethered) to 60,000ft(neutrally buoyant) The altitude would be chosen by the size of "red zone" and wind conditions. I will have to see what FAA restrictions we would have to follow for a payload to be floating around in commercial air space for an extended amount of time. My guess is that it will be able to have one of these up for a day or two.

What do you think?

Brenden

On Oct 2, 2010, at 4:45 PM, Brenden Geary <bjgeary@...> wrote:

If your balloon is able to last for several days it will stay in the same general area as launch. Thanks for the quick reply.

--- On Sat, 10/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
To: GPSL@yahoogroups.com
Cc: "Brenden Geary" <bjgeary@...>
Date: Saturday, October 2, 2010, 4:12 PM

Hi Brendon,

It will hang in the local air mass and therefore will move with it, same way
any other balloon does.

73 de Mike W5VSI

On 10/2/2010 16:15, Brenden Geary wrote:
> What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in the same place, or does it not orbit with the earth and looking over different areas.
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8650. Improbable Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 03:39:18 UTC
From: Mike Manes
Topic: 8650 Message: 8650

Ideas for GPSL 2011? :=)

http://improbable.com/ig/2010/
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8651. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 05:23:48 UTC
From: wb8elk@aol.com
Topic: 8630 Message: 8651

hi Brenden,

The repeater is a good science fair project....I just demonstrated that here for a National Geographic TV show that will come out in January but used what is called a Simplex Repeater (I used the Argent Data Simplex Repeater module connected to a handie-talkie). It takes getting used to the fact that it records for 20 seconds (depending on how you set it up) and then replays what it hears). The good news is that it makes for a simple repeater relay for emergency communications with just one radio instead of the two you'd need for a crossband repeater relay. I used the Alinco DJ-C7 radio for my last flight. We had folks in Kentucky and Ohio talking to us here in Alabama....we are 400 miles from Ohio and I was just using a handie-talkie on the ground to talk through the balloon repeater.

You can also do a crossband repeater, but you will have to wire up a circuit board to adjust the volume levels properly and worry about desense to the receiver since the transmitter is nearby.....I would recommend the simplex repeater option for your system.

I'd recommend a standard up and down flight if you want to get your repeater payload back....we're getting into a time of year when winds are increasing and you could go 150 to 200 miles downrange or more with an extended flight....better to keep it closer by going with 1000 feet/min ascent rate....you'll still get up to 2 hours of communications time for your demonstration. But you can certainly highlight the possibility of extended flight for your science fair display...that would be a good topic. Achieving a float conidition at a specific altitude is not at all easy to do...you have to get things just right to pull it off.

The easiest way to do an extended flight is to just simply put a small amount of positive lift in the balloon....going up at 500 ft/min will double your flight time....a bigger parachute will help for the descent time extension as well....but keep in mind my comment above about getting your payload back if you do this....also measuring just a few ounces of positive lift will be difficult to achieve unless you inflate in a barn or hangar building....better to have plenty of lift to ensure a successful flight.

Use the Ascent rate calculator at: www.nearspaceventures.com to determine the amount of lift you need to achieve 1000 feet/min for the weight of your parachute and payloads......you can also use the Flight prediction software on that website to calculate where your balloon will travel as well. I wrote these original programs to do this in 1987 and we've been refining it since then and it now is pretty accurate. Thanks to the folks at NearspaceVentures they have converted it for use on an interactive webpage.

To determine the amount of helium you'll need...download the Liftwin program that you'll find in the software downloads at: www.eoss.org
You can also download the full Balloon Track prediction program that uses the same algorithms as the web-based Balloon Track at NearSpace Ventures.

I advised a local 8th grade student here last year ... she did her Science Fair project on High altitude balloon photography and won the state competition in Alabama.

Feel free to contact me directly if you have any questions....where are you located by the way?

- Bill Brown WB8ELK
www.wb8elk.com

Huntsville, Alabama

-----Original Message-----
From: Brenden Geary <bjgeary@...>
To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Sent: Sun, Oct 3, 2010 10:33 pm
Subject: Re: [GPSL] What happens to a neutrally buoyant balloon

First of all I would like to thank everybody who answered my question. I am doing a science fair project and have a few questions. First here is what I am doing. I want to launch a repeater to near space that you can use during a natural disaster or other emergency. I have two ideas on how I can do it.

Version 1.0
Have a payload with a lightweight repeater, tracking and a gps. Along with a parachute, balloon, and antenna. The balloon will only will only have 1 pound of extra lift, so there will be a slow accent to 100,000. Then a large parachute for a slow decent. The reason for a slow accent and decent is for a long flight time is to maximize the amount of time the repeater is in the air. Even with that it will only be in the air for 2 - 5 hours. This could give the needed time to setup a more permeant solution or there could be more then one balloon that could launched and recovered and launched again as a longer solution.

Version 2.0

Have a payload with a lightweight repeater, tracker, and a gps. Along with a parachute, balloon, antenna, flasher light, and radar reflector. The balloon will be inflated for it to float around a the altitudes of 250ft(tethered) to 60,000ft(neutrally buoyant) The altitude would be chosen by the size of "red zone" and wind conditions. I will have to see what FAA restrictions we would have to follow for a payload to be floating around in commercial air space for an extended amount of time. My guess is that it will be able to have one of these up for a day or two.

What do you think?

Brenden

On Oct 2, 2010, at 4:45 PM, Brenden Geary <bjgeary@...> wrote:

If your balloon is able to last for several days it will stay in the same general area as launch. Thanks for the quick reply.

--- On Sat, 10/2/10, Mike Manes <mrmanes@...> wrote:

From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
To: GPSL@yahoogroups.com
Cc: "Brenden Geary" <bjgeary@...>
Date: Saturday, October 2, 2010, 4:12 PM

Hi Brendon,

It will hang in the local air mass and therefore will move with it, same way
any other balloon does.

73 de Mike W5VSI

On 10/2/2010 16:15, Brenden Geary wrote:
> What will happen to a neutrally buoyant balloon. Does it orbit with the earth looking in the same place, or does it not orbit with the earth and looking over different areas.
>
> Brenden Geary
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> ------------------------------------
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8652. Re: [GPSL] Mesh network payload?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 05:36:24 UTC
From: wb8elk@aol.com
Topic: 8647 Message: 8652

Robert,

I tested out flying a 915 MHz 100 milliwatt Zigbee PRO XSC module this Summer....they are inexpensive and capable of mesh networking.....I used a stock rubber duck antenna and a simple 8 dBi patch antenna on the ground with about 50 percent copy at 20 miles distance (20 miles straight above my house in fact). The balloon didn't get any farther away than that during this particular mission....high gain ground antenna combined with a better antenna on the balloon may allow some decent range out to 50 miles or more with these....I plan to do another round of experiments with these soon....you can also use them for inter-payload comms on the flight train.

The alternative is to fly the Digi 9XTend units but they are almost $200 each...but do put out a watt....so you'd get very decent range with these....I've had good copy on these out to well over 100 miles...once again high gain antenna on the ground (Az/El rotor mount) is a big plus.

- Bill WB8ELK

-----Original Message-----
From: Robert Rochte <rrochte@gpacademy.org>
To: GPSL@yahoogroups.com
Sent: Sun, Oct 3, 2010 7:02 pm
Subject: [GPSL] Mesh network payload?

Does anyone have experience with flying a mesh network node as a payload? If so, any links or info about the project would be much appreciated.

Thanks.

73,
Robert
KC8UCH

8653. Re: [GPSL] What happens to a neutrally buoyant balloon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 12:38:22 UTC
From: Joe
Topic: 8630 Message: 8653
Attachments: 1 described; binary payloads are missing from this source WARC

One Additional note Brenden,

These balloons HATE to be tethered. Any wind at all and it won't be
very high off the ground.

You may have it on 250 feet of line and when it's dead calm it may be at
250 feet. But if there is much wind at all 10 Mph? it will blow it
over and be almost on the ground actually.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/4/2010 12:23 AM, wb8elk@... wrote:
>
>
> hi Brenden,
> The repeater is a good science fair project....I just demonstrated
> that here for a National Geographic TV show that will come out in
> January but used what is called a Simplex Repeater (I used the Argent
> Data Simplex Repeater module connected to a handie-talkie). It takes
> getting used to the fact that it records for 20 seconds (depending on
> how you set it up) and then replays what it hears). The good news is
> that it makes for a simple repeater relay for emergency
> communications with just one radio instead of the two you'd need for a
> crossband repeater relay. I used the Alinco DJ-C7 radio for my last
> flight. We had folks in Kentucky and Ohio talking to us here in
> Alabama....we are 400 miles from Ohio and I was just using a
> handie-talkie on the ground to talk through the balloon repeater.
> You can also do a crossband repeater, but you will have to wire up a
> circuit board to adjust the volume levels properly and worry about
> desense to the receiver since the transmitter is nearby.....I would
> recommend the simplex repeater option for your system.
> I'd recommend a standard up and down flight if you want to get your
> repeater payload back....we're getting into a time of year when winds
> are increasing and you could go 150 to 200 miles downrange or more
> with an extended flight....better to keep it closer by going with 1000
> feet/min ascent rate....you'll still get up to 2 hours of
> communications time for your demonstration. But you can certainly
> highlight the possibility of extended flight for your science fair
> display...that would be a good topic. Achieving a float conidition at

> a specific altitude is not at all easy to do...you have to get things
> just right to pull it off.
> The easiest way to do an extended flight is to just simply put a
> small amount of positive lift in the balloon....going up at 500 ft/min
> will double your flight time....a bigger parachute will help for the
> descent time extension as well....but keep in mind my comment above
> about getting your payload back if you do this....also measuring just
> a few ounces of positive lift will be difficult to achieve unless you
> inflate in a barn or hangar building....better to have plenty of lift
> to ensure a successful flight.
> Use the Ascent rate calculator at: www.nearspaceventures.com
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> these original programs to do this in 1987 and we've been refining it
> since then and it now is pretty accurate. Thanks to the folks at
> NearspaceVentures they have converted it for use on an interactive
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> To determine the amount of helium you'll need...download the Liftwin
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> Ventures.
> I advised a local 8th grade student here last year ... she did her
> Science Fair project on High altitude balloon photography and won the
> state competition in Alabama.
> Feel free to contact me directly if you have any questions....where
> are you located by the way?
> - Bill Brown WB8ELK
> www.wb8elk.com <http://www.wb8elk.com>
> Huntsville, Alabama
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>
> -----Original Message-----
> From: Brenden Geary <bjgeary@...>
> To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> Sent: Sun, Oct 3, 2010 10:33 pm
> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
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> First of all I would like to thank everybody who answered my question.
> I am doing a science fair project and have a few questions. First here
> is what I am doing. I want to launch a repeater to near space that you
> can use during a natural disaster or other emergency. I have two ideas
> on how I can do it.
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> Have a payload with a lightweight repeater, tracking and a gps.
> Along with a parachute, balloon, and antenna. The balloon will only
> will only have 1 pound of extra lift, so there will be a slow accent
> to 100,000. Then a large parachute for a slow decent. The reason for a
> slow accent and decent is for a long flight time is to maximize the
> amount of time the repeater is in the air. Even with that it will only
> be in the air for 2 - 5 hours. This could give the needed time to
> setup a more permeant solution or there could be more then one balloon
> that could launched and recovered and launched again as a longer
> solution.
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> Have a payload with a lightweight repeater, tracker, and a gps. Along
> with a parachute, balloon, antenna, flasher light, and radar
> reflector. The balloon will be inflated for it to float around a the
> altitudes of 250ft(tethered) to 60,000ft(neutrally buoyant) The
> altitude would be chosen by the size of "red zone" and wind
> conditions. I will have to see what FAA restrictions we would have to
> follow for a payload to be floating around in commercial air space for
> an extended amount of time. My guess is that it will be able to have
> one of these up for a day or two.
>
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> What do you think?
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> Brenden
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> On Oct 2, 2010, at 4:45 PM, Brenden Geary <bjgeary@...
> <mailto:bjgeary@...>> wrote:
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>> If your balloon is able to last for several days it will stay in the
>> same general area as launch. Thanks for the quick reply.
>>
>> --- On *Sat, 10/2/10, Mike Manes /<mrmanes@...
>> <mailto:mrmanes@...>>/* wrote:
>>
>>
>> From: Mike Manes <mrmanes@... <mailto:mrmanes@...>>
>> Subject: Re: [GPSL] What happens to a neutrally buoyant balloon
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Cc: "Brenden Geary" <bjgeary@... <mailto:bjgeary@...>>
>> Date: Saturday, October 2, 2010, 4:12 PM
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>> Hi Brendon,
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>> It will hang in the local air mass and therefore will move with
>> it, same way
>> any other balloon does.
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>> 73 de Mike W5VSI
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>> On 10/2/2010 16:15, Brenden Geary wrote:
>> > What will happen to a neutrally buoyant balloon. Does it orbit
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>> 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
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8654. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 13:12:24 UTC
From: Keith Kaiser
Topic: 8634 Message: 8654

This helps me a lot to confirm that my projected touchdown was at least close. I had figured 38d 52.74, -93d 37.52 so you can see we are only 61.9 feet apart on our projections.

But that also confirms that despite Deb and I doing what I felt was a very good job of looking for it, we didn't look hard enough. It's there we just have to find it.

Thank you Bill and others for taking the time to look into this mystery. We're already planning on another trip this Saturday to try again to find it. Anyone interested is welcome to join in.

On Oct 3, 2010, at 11:59 PM, wb8elk@... wrote:

> Surface winds may have been light, but just above they were going strong.....and you were coming down slow 778 ft/min is a slow descent....based on the last reading from W0A-11 and where it landed....my estimate for the final landing spot of W0B-11 is 400 feet due north of the last APRS reading at 1698 feet.....my coordinate guess for landing of W0B-11:
>
> 38d 52.73m -93d 37.52
>
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>
> -----Original Message-----
> From: Keith Kaiser <wa0tjt@...>
> To: wb8elk@...
> Cc: Mike Bogard <kd0fw@...>; Deb Kaiser <dlkaiser@...>; John Morelli <jjm2@...>
> Sent: Sun, Oct 3, 2010 9:51 am
> Subject: Re: [GPSL] Balloon Location Challenge
>
> Attached are the three logs. Mike Bogard reports "Here is a link to where I found the w0a-11 balloon payload. It was about 1200 feet north at 38*49.34'n and 93*32.82'w of the last spot on aprs.fi. It was just northeast about 30 feet of the pond just north of the house."
>
> Deb and John report that the winds were very mild at the time of the landing, and out of the West. But it's exact speed is unknown.
>
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>
> Thanks for helping on this Bill.
>
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> On Oct 3, 2010, at 1:32 AM, wb8elk@... wrote:

>
>> Keith,
>>
>> The W0B-11 balloon was descending at about 778 ft/min....based on ground elevation and the 1698 feet altitude of the last position report that would mean it had 1.3 minutes left to land. The tricky part is exactly how strong the winds were on the surface....it was heading due north as a general trend....even your launch was traveling due north immediately after liftoff... W0A-11 was heading due north as well just before landing....i'd check the actual landing site for W0A-11 compared with the last reading...(I don't have the actual landing site for W0A-11 or W0S...that would help determine what it did during that last 1.3 minutes)...it probably followed the same sort of path that W0A-11 did....W0S did a hook to the southwest...but that was 2 hours later and probably not a good estimate. So my recommendation is to look at where W0A-11 landed in relationship to it's last report and use that as an estimate for W0B-11 from it's last report. If you can send me the actual W0A-11 landing location as well as the W0S landing position I might be able to refined it more for you.
>>
>> - Bill WB8ELK
>>
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>> -----Original Message-----
>> From: Keith Kaiser <wa0tjt@...>
>> To: gpsl <GPSL@yahoogroups.com>; balloonatics@yahoogroups.com
>> Cc: Deb Kaiser <dlkaiser@...>
>> Sent: Sat, Oct 2, 2010 7:39 pm
>> Subject: [GPSL] Balloon Location Challenge
>>
>> Today Deb and I went out to look for the week-lost W0B-11 balloon we launched from the BSA Centennial Campout last weekend. We didn't find it. It's here;
>>
>> http://aprs.fi/?call=w0b-11&mt=roadmap&z=11&timerange=5000
>>
>> Above is the last position report from the balloon according to aprs.fi, it's also exactly where we started our search today. I used its last position, speed, altitude, direction, etc. to predict a landing spot, it wasn't there either.
>>
>> I'd like input from any of you who care to help, to give me a new projected touchdown location. Deb and I did a two hour grid sweep of the location and didn't find the balloon. I'm not asking you to go out and find it (unless you want to), what I'm asking for is an alternate touchdown location. Our grid sweep went North an additional 500 feet, then worked East much more than that. The wind that day was very mild at this location and out of the West. This is a very large soy-bean field, the plants mostly brown are about 3 feet high.
>>
>> Good luck and thanks for any help you care to provide.

>>
>
> =

8655. A little more detail on White Star Balloon flights for the curious

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 15:17:29 UTC
From: Dan Bowen
Topic: 8655 Message: 8655

Hi All,

One question first: can someone find a reference for the rule on HF data telemetry on 10.146MHz from balloons over the US? We didn't do it on SNOX cause we thought it wasn't legal, but now can't find a reference to the regs that say so...

The White Star program is starting from the open-sourced Spirit of Knoxville Transatlantic Balloon system designs and research information and building upon them. (SNOX data/research available at http://web.me.com/dbowen1/Spirit_of_Knoxville_Published_Information/SNOX_DOCS_Blog/SNOX_DOCS_Blog.html and http://wiki.whitestarballoon.com/doku.php?id=analysis:snox) There are two member of the old SNOX team participating in White Star, Carl Lyster, WA4ADG, who designed and built all the electronics on SNOX, and myself. Bill Brown, WB8ELK, may also be contributing and flying hardware onboard as well.

We're taking a completely open stance on info sharing right from the start. We'd like to welcome others to compete, poke around our code, spectate, comment, compete or collaborate. All* of our technical details are/will be available at http://wiki.whitestarballoon.com.

Anyone in the balloon community is welcome to listen in on our meetings/work sessions, we will have a speakerphone at all the meetings tied into the conference call number. We have meetings VERY often in this rush to the Jet Stream season, usually 3-5 times per week, plus one scheduled conference call per week. Events calendar: http://www.google.com/calendar/embed?src=d2hpdGVzdGFyYmFsbG9vbkBnbWFpbC5jb20

There are multiple small teams working in parallel on the many mini-projects that are required to do a long duration balloon. We hope that the stuff we put together can be used by others as a starting point to spend time solving the next problems, getting better, going farther, easier. You will find info on the wiki on mini-projects that also still need help, which you're welcome to contribute to.

For the first flight or two we'll be collecting a large amount of scientific data, at a very high data rate. We're aiming to have 1 minute data logging for the duration of the mission, and have all of it relayed down via telemetry, not stored in a data logger. (telemetry may be in bursts though, not every minute) For the first flight the Global Western TA Zero Pressure balloon envelopes will be instrumented to gather data on exactly what happens to a small ZP balloon. Temperature will be measured at three heights in the balloon, and differential air pressure (vs outside) will be measured at the top and bottom of the balloon. The temperature from solar heating is quite important to being able to understand and predict balloon performance, and very little data exists for that on this size of balloon.

There will be a mems barometric altimeter onboard the payload for altitude holding, instead of GPS altitude. The Telemetry is likely going to be a hybrid satellite data/HF system, where satellite uplink commands are used to pause the HF telemetry when no propagation is available. satellite is cheap if you only send about 3KB per month, but gets expensive quick as your data xferred goes up. Telemetry format and data modes are being explored now.

Data compression will be used for telemetry data, in a defined method so data can be independently verified if desired. We're looking at ASCII 110 baud, 8 data bits, 1 stop bit, as an easy-to implement method, but also are looking at DominoEX. The problem with DominoEX is that it doesn't appear to allow 8-bit bytes. We'd really like a method that supports 8-bit data bytes to ease the flight computer programming. We'd welcome any suggestions here.

Telemetry is going to be sent at regular intervals over HF during normal propagation. Position-only data will be sent via satellite at all times to ensure ATC knows where we are at all times. After propagation dropouts, however, all the backlogged data will be sent in a CONTINUOUS BURST until caught up with realtime. This will be commanded via satellite uplink.

There will likely be a tip-over cutdown, remotely commandable via satellite.

Ballast will be liquid alcohol, using an identical system to SNOX for the first SpeedBall or two, as we develop improvements to shed more than just 6lbs.

We'll be communicating with every ATC center we pass through via telephone for all phases of the flight. This will be an intensive job, requiring a phone call at least once every 30 minutes, for 24-72 hours while over the ocean. We would like some help on this if anyone is interested, so we can do this in shifts. Training would be provided, but pilots or ATC controllers are preferable.

Background on the names
SpeedBall will be the name of all our Jet Stream flights - a nod to the other trans-atlantic speeder, the Concorde. It's ATC radio callsign was SpeedBird. The HighBall-1 latex flight this weekend is merely to get our launch crew some launch coordination experience, and our local ATC some comfort with us. It's not going to go fast, so no SpeedBall name for it. I know HighBall isn't very original, but it's a pretty typical latex flight anyway!

Thanks,
Dan

*There is a private section of the wiki, but I'll tell you what's in there - service plan data that we had to sign an NDA to get from Orbcomm, passwords to websites like twitter, our personal members contact info, and our money records.

8656. Re: [GPSL] Balloon Location Challenge

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 16:22:08 UTC
From: Mike Manes
Topic: 8634 Message: 8656

Hi Keith,

An independent DF beacon sure would help you narrow down your search. Don't leave the launch site without it! :=)
73 de Mike W5VSI

On 10/4/2010 07:12, Keith Kaiser wrote:
>
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> This helps me a lot to confirm that my projected touchdown was at least close.
> I had figured 38d 52.74, -93d 37.52 so you can see we are only 61.9 feet apart
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> good job of looking for it, we didn't look hard enough. It's there we just
> have to find it.
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> Thank you Bill and others for taking the time to look into this mystery. We're
> already planning on another trip this Saturday to try again to find it. Anyone
> interested is welcome to join in.
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>> descent....based on the last reading from W0A-11 and where it landed....my
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>> To: wb8elk@... <mailto:wb8elk@...>
>> Cc: Mike Bogard <kd0fw@... <mailto:kd0fw@...>>; Deb Kaiser
>> <dlkaiser@... <mailto:dlkaiser@...>>; John Morelli
>> <jjm2@... <mailto:jjm2@...>>
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>>> mean it had 1.3 minutes left to land. The tricky part is exactly how strong
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>>> probably followed the same sort of path that W0A-11 did....W0S did a hook
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>>> To: gpsl <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>;
>>> balloonatics@yahoogroups.com <mailto:balloonatics@yahoogroups.com>
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>>>
>>> I'd like input from any of you who care to help, to give me a new projected
>>> touchdown location. Deb and I did a two hour grid sweep of the location and
>>> didn't find the balloon. I'm not asking you to go out and find it (unless
>>> you want to), what I'm asking for is an alternate touchdown location. Our
>>> grid sweep went North an additional 500 feet, then worked East much more
>>> than that. The wind that day was very mild at this location and out of the
>>> West. This is a very large soy-bean field, the plants mostly brown are
>>> about 3 feet high.
>>>
>>> Good luck and thanks for any help you care to provide.
>>
>> =
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8657. RE: [GPSL] A little more detail on White Star Balloon flights for the curious

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 16:40:56 UTC
From: DON FRASER
Topic: 8655 Message: 8657

Dan;

I just happen to have seen what I think you're looking for in the ARRL Extra Class License Manual - 2008 version.

First of all per this manual and the test, a balloon should be considered an earth station since its below 50 km in altitude. See page 3-13, table 3-6 which references part 97 section 97.3(a):
"(16) Earth Station. An amateur station located on or within 50 km of the earth's surface intended for communications with space stations or other earth stations by means of one or more other objects in space.

(40) Space Station. An amateur station located more than 50 km above the earth's surface."

Since it says an object, to me that would include bouncing a signal off of the e-layer or f-layer :)

Than on page 3-4 it says: "The 30 meter band is allocated to amateurs on a secondary basis at the World Administrative Radio Conference in 1977. Amateurs may only transmit CW and data signals on this band and are limited to 200 W output power... ". On page 3-5, the book says that should the balloon travel into airspace controlled by another country, then will need an appropriate license to operate on 30 m.

Finally the book reminds us to seek permission of the owner of the aircraft before installing a radio or transmitting, I'm sure you have that.

So while I'm not a lawyer, my reading of the book would say that its legal to send telemetry on 10.146 MHz while over the US or international waters.

Don

To: GPSL@yahoogroups.com; white-star-balloon@googlegroups.com
From: dbowen1@...
Date: Mon, 4 Oct 2010 11:17:29 -0400
Subject: [GPSL] A little more detail on White Star Balloon flights for the curious

Hi All,

One question first: can someone find a reference for the rule on HF data telemetry on 10.146MHz from balloons over the US? We didn't do it on SNOX cause we thought it wasn't legal, but now can't find a reference to the regs that say so...

The White Star program is starting from the open-sourced Spirit of Knoxville Transatlantic Balloon system designs and research information and building upon them. (SNOX data/research available at http://web.me.com/dbowen1/Spirit_of_Knoxville_Published_Information/SNOX_DOCS_Blog/SNOX_DOCS_Blog.html and http://wiki.whitestarballoon.com/doku.php?id=analysis:snox) There are two member of the old SNOX team participating in White Star, Carl Lyster, WA4ADG, who designed and built all

the electronics on SNOX, and myself. Bill Brown, WB8ELK, may also be contributing and flying hardware onboard as well.

We're taking a completely open stance on info sharing right from the start. We'd like to welcome others to compete, poke around our code, spectate, comment, compete or collaborate. All* of our technical details are/will be available at http://wiki.whitestarballoon.com.

Anyone in the balloon community is welcome to listen in on our meetings/work sessions, we will have a speakerphone at all the meetings tied into the conference call number. We have meetings VERY often in this rush to the Jet Stream season, usually 3-5 times per week, plus one scheduled conference call per week. Events calendar: http://www.google.com/calendar/embed?src=d2hpdGVzdGFyYmFsbG9vbkBnbWFpbC5jb20

There are multiple small teams working in parallel on the many mini-projects that are required to do a long duration balloon. We hope that the stuff we put together can be used by others as a starting point to spend time solving the next problems, getting better, going farther, easier. You will find info on the wiki on mini-projects that also still need help, which you're welcome to contribute to.

For the first flight or two we'll be collecting a large amount of scientific data, at a very high data rate. We're aiming to have 1 minute data logging for the duration of the mission, and have all of it relayed down via telemetry, not stored in a data logger. (telemetry may be in bursts though, not every minute) For the first flight the Global Western TA Zero Pressure balloon envelopes will be instrumented to gather data on exactly what happens to a small ZP balloon. Temperature will be measured at three heights in the balloon, and differential air pressure (vs outside) will be measured at the top and bottom of the balloon. The temperature from solar heating is quite important to being able to understand and predict balloon performance, and very little data exists for that on this size of balloon.

There will be a mems barometric altimeter onboard the payload for altitude holding, instead of GPS altitude. The Telemetry is likely going to be a hybrid satellite data/HF system, where satellite uplink commands are used to pause the HF telemetry when no propagation is available. satellite is cheap if you only send about 3KB per month, but gets expensive quick as your data xferred goes up. Telemetry format and data modes are being explored now. Data compression will be used for telemetry data, in a defined method so data can be independently verified if desired. We're looking at ASCII 110 baud, 8 data bits, 1 stop bit, as an easy-to implement method, but also are looking at DominoEX. The problem with DominoEX is that it doesn't appear to allow 8-bit bytes. We'd really like a method that supports 8-bit data bytes to ease the flight computer programming. We'd welcome any suggestions here.

Telemetry is going to be sent at regular intervals over HF during normal propagation. Position-only data will be sent via satellite at all times to ensure ATC knows where we are at all times. After propagation dropouts, however, all the backlogged data will be sent in a CONTINUOUS BURST until caught up with realtime. This will be commanded via satellite uplink.

There will likely be a tip-over cutdown, remotely commandable via satellite.

Ballast will be liquid alcohol, using an identical system to SNOX for the first SpeedBall or two, as we develop improvements to shed more than just 6lbs.

We'll be communicating with every ATC center we pass through via telephone for all phases of the flight. This will be an intensive job, requiring a phone call at least once every 30 minutes, for 24-72 hours while over the ocean. We would like some help on this if anyone is interested, so we can do this in shifts. Training would be provided, but pilots or ATC controllers are preferable.

Background on the names
SpeedBall will be the name of all our Jet Stream flights - a nod to the other trans-atlantic speeder, the Concorde. It's ATC radio callsign was SpeedBird. The HighBall-1 latex flight this weekend is merely to get our launch crew some launch coordination experience, and our local ATC some comfort with us. It's not going to go fast, so no SpeedBall name for it. I know HighBall isn't very original, but it's a pretty typical latex flight anyway!

Thanks,
Dan

*There is a private section of the wiki, but I'll tell you what's in there - service plan data that we had to sign an NDA to get from Orbcomm, passwords to websites like twitter, our personal members contact info, and our money records.

8658. Re: [GPSL] A little more detail on White Star Balloon flights for the curious

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 16:57:40 UTC
From: wb8elk@aol.com
Topic: 8655 Message: 8658

Dan....the automated data portion of the 30m band goes from 10.140 to 10.150 MHz over the US....but it is a bit crowded with packet gateways on the upper end of that....I chose 10.142 as a good compromise but you will get a few PSK31 stations there but seemed to be the quietest portion for my flights I did on 30m.

- Bill

-----Original Message-----
From: DON FRASER <wa9wws@...>
To: GPSL <gpsl@yahoogroups.com>; white-star-balloon@googlegroups.com
Sent: Mon, Oct 4, 2010 11:40 am
Subject: RE: [GPSL] A little more detail on White Star Balloon flights for the curious

Dan;

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First of all per this manual and the test, a balloon should be considered an earth station since its below 50 km in altitude. See page 3-13, table 3-6 which references part 97 section 97.3(a):
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Don

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From: dbowen1@...
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Dan

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8659. Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 19:32:48 UTC
From: w0jrt
Topic: 6119 Message: 8659

More precisely, 98396 ft is the over-the-air limit of the Rino protocol, but like Nick says the GPS works fine above that and still provides the correct altitude on the serial port.

Note that there was a bug in some of the early units that wouldn't decode the altitude properly (it got clipped at 46739 ft.) The bug is on the receive side. If you're using a 520/530/520HCx/520HCx for receive, make sure your have the latest software. I don't think the bug was ever fixed in the 100-series. But again, this only affects the receiver so a 100-series can be used as the transmitter without problems.

--- In GPSL@yahoogroups.com, "Nicholas" <NStich@...> wrote:
>
> Mike the Rino works above 100K in the NEMA output so it will still provide the GPS data to the APRS system.
>
> But because of internal coding it is limited to just over 98K while sending information to other Rino's using the FRS freq. Once it is below 98K it again shows the correct altitude.
>
> Nick
> K0NMS
>
> >> What is the max altitude for the Rino 110? >>
>

8660. Re: [GPSL] Improbable Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 19:40:41 UTC
From: L. Paul Verhage
Topic: 8650 Message: 8660

I'm not sure ow we would get involved, but the igNobles are great to listen to. Makes me wish I could attend in person.

Paul

On Sun, Oct 3, 2010 at 10:39 PM, Mike Manes <mrmanes@...> wrote:

> Ideas for GPSL 2011? :=)
>
> http://improbable.com/ig/2010/
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8661. Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 19:49:09 UTC
From: w0jrt
Topic: 6119 Message: 8661

Try http://www.radio-active.net.au/web/rino/rino.html

--- In GPSL@yahoogroups.com, "Meer, Stephen" <smeer@...> wrote:
>
> Nick (or anyone else for that matter),
> Do you have any info about the over the air protocol used in these radios. I am interested in decoding for display on a PC based map.
>
> Thanks. /s/SM2. K0SCC
>
> ***This message has been sent via the Intrado Wireless Information Network.***
>
> _____
> From: GPSL@yahoogroups.com
> To: GPSL@yahoogroups.com
> Sent: Sun Oct 03 17:36:37 2010
> Subject: [GPSL] Re: Garmin Rino
>
>
>
> Mike the Rino works above 100K in the NEMA output so it will still provide the GPS data to the APRS stystem.
>
> But because of internal coding it is limited to just over 98K while sending information to other Rino's using the FRS freq. Once it is below 98K it again shows the correct altitude.
>
> Nick
> K0NMS
>
> >> What is the max altitude for the Rino 110? >>
>

8662. Re: [GPSL] Re: Garmin Rino

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 20:06:43 UTC
From: L. Paul Verhage
Topic: 6119 Message: 8662

The Rino 110 looks like it may be a good backup tracker to help you locate the landing site. Before purchasing one, I'd be curious to know if you can set it to send position reports on a regular basis. That way I could launch it as a backup tracker.

Paul

On Mon, Oct 4, 2010 at 2:49 PM, w0jrt <w0jrt@...> wrote:

> Try http://www.radio-active.net.au/web/rino/rino.html
>
> --- In GPSL@yahoogroups.com, "Meer, Stephen" <smeer@...> wrote:
> >
> > Nick (or anyone else for that matter),
> > Do you have any info about the over the air protocol used in these
> radios. I am interested in decoding for display on a PC based map.
> >
> > Thanks. /s/SM2. K0SCC
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> sending information to other Rino's using the FRS freq. Once it is below 98K
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> > Nick
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> > >> What is the max altitude for the Rino 110? >>
> >
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8663. Balloon flight climatology

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 20:54:25 UTC
From: Mark Conner
Topic: 8663 Message: 8663
Attachments: 1 described; binary payloads are missing from this source WARC

Attached is an animated GIF showing the landing sites of 31 years of simulated daily balloon flights. The wind data is taken from the NCDC Climate Forecast System Reanalysis archive, which has pretty high vertical resolution up to 1 mb of altitude. The plots show the launch site as a yellow plus, each landing as a red dot, and the gray squares showing the landing plot density on a 0.25-degree grid (the whiter the box the more landings in it). The green rings are 50 statute miles in diameter and are a true distance on the earth and not an approximation from a lat/lon grid.

In general it shows what one would expect, with longer average distances in the winter. No big surprises in the plots, except I had expected more long-distance landings in the winter (the longest I saw was about 250 miles). However, in the winter a strong jet stream is often correlated with light winds in the lower layers, so while it may be moving at 200 mph in the jet, it may not be in it for very long vertically.

It would also be interesting to run this for other areas of the country, which I haven't done yet. It takes a few hours to extract wind profiles for a new location out of 60 Gb of global analysis data, but once that's done simulating the 11,000+ balloon flights takes under a minute.

I did compare my flight profiles to what NSV generates on their website and while not exact we're within a few miles of the sample 125-mile flight profile I compared (direction is good, my profile gives slightly longer distances).

73 de Mark N9XTN

8664. Re: [GPSL] Balloon flight climatology [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-04 20:59:42 UTC
From: Mark Conner
Topic: 8663 Message: 8664

It's apparent the animated GIF may not work well with Yahoo Groups. A copy
of it is posted to http://www.nstar.org/NSTAR/flights.gif .

On Mon, Oct 4, 2010 at 15:54, Mark Conner <mconner1@...> wrote:

> [Attachment(s) <#12b79076d094c443_TopText> from Mark Conner included
> below]
>
> Attached is an animated GIF showing the landing sites of 31 years of
> simulated daily balloon flights. The wind data is taken from the NCDC
> Climate Forecast System Reanalysis archive, which has pretty high vertical
> resolution up to 1 mb of altitude. The plots show the launch site as a
> yellow plus, each landing as a red dot, and the gray squares showing the
> landing plot density on a 0.25-degree grid (the whiter the box the more
> landings in it). The green rings are 50 statute miles in diameter and are a
> true distance on the earth and not an approximation from a lat/lon grid.
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> the winter. No big surprises in the plots, except I had expected more
> long-distance landings in the winter (the longest I saw was about 250
> miles). However, in the winter a strong jet stream is often correlated with
> light winds in the lower layers, so while it may be moving at 200 mph in the
> jet, it may not be in it for very long vertically.
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> which I haven't done yet. It takes a few hours to extract wind profiles for
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> I did compare my flight profiles to what NSV generates on their website and
> while not exact we're within a few miles of the sample 125-mile flight
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> distances).
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> 73 de Mark N9XTN
>
>

8665. Re: [GPSL] Balloon flight climatology [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:24:31 UTC
From: L. Paul Verhage
Topic: 8663 Message: 8665

That's pretty cool. Do you have the data in a spreadsheet form? I'm
wondering if I could run SPSS against it to analyze the variances. Perhaps
I could even run a regression against the data.

Paul "Geez, I think this PhD program is effecting in more ways than I
thought" Verhage

On Mon, Oct 4, 2010 at 3:54 PM, Mark Conner <mconner1@...> wrote:

> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html#
12b79077468b3b34_TopText>from Mark Conner included below]
>
> Attached is an animated GIF showing the landing sites of 31 years of
> simulated daily balloon flights. The wind data is taken from the NCDC
> Climate Forecast System Reanalysis archive, which has pretty high vertical
> resolution up to 1 mb of altitude. The plots show the launch site as a
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>
>
> Attachment(s) from Mark Conner
>
> 1 of 1 Photo(s)

> [image: flights.gif]<http://groups.yahoo.com/group/GPSL/attachments/folder/574782820/item/1539579455/view>
> flights.gif<http://groups.yahoo.com/group/GPSL/attachments/folder/574782820/item/1539579455/view>
>
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>

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Onwards and Upwards,
Paul

8666. Re: [GPSL] Balloon flight climatology

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:26:38 UTC
From: L. Paul Verhage
Topic: 8663 Message: 8666

The variance in the data appears as the spread-outedness of the plots. As
the balloon travels farther, the landing zones spread out in extent.

Paul

On Mon, Oct 4, 2010 at 3:59 PM, Mark Conner <mconner1@...> wrote:

>
>
> It's apparent the animated GIF may not work well with Yahoo Groups. A copy
> of it is posted to http://www.nstar.org/NSTAR/flights.gif .
>
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>> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html
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>
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8667. OT Metropolis

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:37:41 UTC
From: L. Paul Verhage
Topic: 8667 Message: 8667

I had a chance to watch the newly restored Metropolis (1928 Fritz Lang) last night in Lawrence with live muscial accompaniment.

The restored version puts 25 minutes back into the movie so it makes much more sense. Lang did a great job on this silent movie, so if you get a chance to watch it, I'd recommend it.

In Novermber the restored version will be available along with the musical accompaniment by the group, Alloy, that I listened to. Good selection of music for the movie.

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Onwards and Upwards,
Paul

8668. Re: [GPSL] Balloon flight climatology [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:54:29 UTC
From: Joe
Topic: 8663 Message: 8668
Attachments: 1 described; binary payloads are missing from this source WARC

Is it me? Or why can I not see this?

The Image when i go to look at it is a jpg and of course those can not be animated. hmmmm?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/4/2010 3:54 PM, Mark Conner wrote:
> [Attachment(s) <#TopText> from Mark Conner included below]
>
> Attached is an animated GIF showing the landing sites of 31 years of
> simulated daily balloon flights. The wind data is taken from the NCDC
> Climate Forecast System Reanalysis archive, which has pretty high
> vertical resolution up to 1 mb of altitude. The plots show the launch
> site as a yellow plus, each landing as a red dot, and the gray squares
> showing the landing plot density on a 0.25-degree grid (the whiter the
> box the more landings in it). The green rings are 50 statute miles in
> diameter and are a true distance on the earth and not an approximation
> from a lat/lon grid.
>
> In general it shows what one would expect, with longer average
> distances in the winter. No big surprises in the plots, except I had
> expected more long-distance landings in the winter (the longest I saw
> was about 250 miles). However, in the winter a strong jet stream is
> often correlated with light winds in the lower layers, so while it may
> be moving at 200 mph in the jet, it may not be in it for very long
> vertically.
>
> It would also be interesting to run this for other areas of the
> country, which I haven't done yet. It takes a few hours to extract
> wind profiles for a new location out of 60 Gb of global analysis data,
> but once that's done simulating the 11,000+ balloon flights takes
> under a minute.
>
> I did compare my flight profiles to what NSV generates on their
> website and while not exact we're within a few miles of the sample
> 125-mile flight profile I compared (direction is good, my profile
> gives slightly longer distances).
>
> 73 de Mark N9XTN

>
>
>
>
> Attachment(s) from Mark Conner
>
> 1 of 1 Photo(s)
>
> flights.gif
> <http://groups.yahoo.com/group/GPSL/attachments/folder/574782820/item/1539579455/view>
> flights.gif
> <http://groups.yahoo.com/group/GPSL/attachments/folder/574782820/item/1539579455/view>
>
>

8669. Re: [GPSL] Balloon flight climatology

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:56:28 UTC
From: Mark Conner
Topic: 8663 Message: 8669
Attachments: 1 described; binary payloads are missing from this source WARC

Yahoo was trying to "help" and converted it. Go to the direct link provided
in the subsequent message.

- Mark

On Tue, Oct 5, 2010 at 08:54, Joe <nss@...> wrote:

> Is it me? Or why can I not see this?
>
> The Image when i go to look at it is a jpg and of course those can not be
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> Joe WB9SBD
>
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> miles). However, in the winter a strong jet stream is often correlated with
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> jet, it may not be in it for very long vertically.
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> It would also be interesting to run this for other areas of the country,
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> a new location out of 60 Gb of global analysis data, but once that's done
> simulating the 11,000+ balloon flights takes under a minute.
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> I did compare my flight profiles to what NSV generates on their website and
> while not exact we're within a few miles of the sample 125-mile flight
> profile I compared (direction is good, my profile gives slightly longer

> distances).
>
> 73 de Mark N9XTN
>
>
>
>

8670. Re: [KNSP] Re: [GPSL] Balloon flight climatology

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 13:56:48 UTC
From: Joe
Topic: 8663 Message: 8670
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks! Now that is cool!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/4/2010 3:59 PM, Mark Conner wrote:
>
>
> It's apparent the animated GIF may not work well with Yahoo Groups. A
> copy of it is posted to http://www.nstar.org/NSTAR/flights.gif .
>
> On Mon, Oct 4, 2010 at 15:54, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
> [Attachment(s) <#12b79076d094c443_TopText> from Mark Conner
> included below]
>
> Attached is an animated GIF showing the landing sites of 31 years
> of simulated daily balloon flights. The wind data is taken from
> the NCDC Climate Forecast System Reanalysis archive, which has
> pretty high vertical resolution up to 1 mb of altitude. The plots
> show the launch site as a yellow plus, each landing as a red dot,
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> I did compare my flight profiles to what NSV generates on their
> website and while not exact we're within a few miles of the sample
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> gives slightly longer distances).
>
> 73 de Mark N9XTN
>
>
>
>
>

8671. Re: [GPSL] Balloon flight climatology

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 14:28:50 UTC
From: Joe
Topic: 8663 Message: 8671
Attachments: 2 described; binary payloads are missing from this source WARC

Yeah I should have looked at all my messages before replyig I seen the
up-date later and it's still cool!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/5/2010 8:56 AM, Mark Conner wrote:
>
>
> Yahoo was trying to "help" and converted it. Go to the direct link
> provided in the subsequent message.
>
> - Mark
>
> On Tue, Oct 5, 2010 at 08:54, Joe <nss@... <mailto:nss@...>>
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> Is it me? Or why can I not see this?
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>> red dot, and the gray squares showing the landing plot density on
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>> profile gives slightly longer distances).
>>
>> 73 de Mark N9XTN
>>
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>

8672. Mark's Data

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-05 20:06:35 UTC
From: L. Paul Verhage
Topic: 8672 Message: 8672
Attachments: 1 described; binary payloads are missing from this source WARC

I ran a one way anova (analysis of variance) real quick (I'm about to head to class). The blasted SPSS in the GRA office won't save output as a PDF, so I've attached a screen print of the output.

The comparison of means I ran looked at changes in lattitude and longitude based on the month (it combined all years). So in the Descriptives, it's displaying the means for each month (1 to 12) for lat and long.

N = number of records
Mean is the average lat or long
Std Deviation is how much variation there is in lat and long. A single SD encompasses 32% of the records. The smaller the SD, the tighter the clustering of the data.
Std Error is something I need to look up again
Confidence Intervals tells us how much range there is for 95% of the records.

In the ANOVA table, the sum or sqares is telling us about the amount of variation within months and between months.

In regards to lattitude, the variation within each month is far less than the variation we see between the average (mean) between the months.
The effect is far less pronounced in longitude.

So we see a lot more overlap in lattiude than we see in longitude.

I've got to drive to class, so I'll look at this some more tomorrow and run additional analysis.

--
Onwards and Upwards,
Paul

8673. Re: RE: [GPSL] A little more detail on White Star Balloon flights for the curious

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-06 18:22:04 UTC
From: dbowen1
Topic: 8655 Message: 8673

Thanks for your kind research Don! I apologize for my delay in responding, I forgot that I have all my GPSL emails drop into a separate folder from my inbox, and hadn't peeked in there since the weekend!
Dan

On Oct 04, 2010, at 12:40 PM, DON FRASER <wa9wws@...> wrote:

Dan;

I just happen to have seen what I think you're looking for in the ARRL Extra Class License Manual - 2008 version.

First of all per this manual and the test, a balloon should be considered an earth station since its below 50 km in altitude. See page 3-13, table 3-6 which references part 97 section 97.3(a):
"(16) Earth Station. An amateur station located on or within 50 km of the earth's surface intended for communications with space stations or other earth stations by means of one or more other objects in space.

(40) Space Station. An amateur station located more than 50 km above the earth's surface."

Since it says an object, to me that would include bouncing a signal off of the e-layer or f-layer :)

Than on page 3-4 it says: "The 30 meter band is allocated to amateurs on a secondary basis at the World Administrative Radio Conference in 1977. Amateurs may only transmit CW and data signals on this band and are limited to 200 W output power... ". On page 3-5, the book says that should the balloon travel into airspace controlled by another country, then will need an appropriate license to operate on 30 m.

Finally the book reminds us to seek permission of the owner of the aircraft before installing a radio or transmitting, I'm sure you have that.

So while I'm not a lawyer, my reading of the book would say that its legal to send telemetry on 10.146 MHz while over the US or international waters.

Don

To: GPSL@yahoogroups.com; white-star-balloon@...
From: dbowen1@...
Date: Mon, 4 Oct 2010 11:17:29 -0400
Subject: [GPSL] A little more detail on White Star Balloon flights for the curious

Hi All,

One question first: can someone find a reference for the rule on HF data telemetry on 10.146MHz from balloons over the US? We didn't do it on SNOX cause we thought it wasn't

legal, but now can't find a reference to the regs that say so...

The White Star program is starting from the open-sourced Spirit of Knoxville Transatlantic Balloon system designs and research information and building upon them. (SNOX data/research available at http://web.me.com/dbowen1/Spirit_of_Knoxville_Published_Information/SNOX_DOCS_Blog/SNOX_DOCS_Blog.html and http://wiki.whitestarballoon.com/doku.php?id=analysis:snox) There are two member of the old SNOX team participating in White Star, Carl Lyster, WA4ADG, who designed and built all the electronics on SNOX, and myself. Bill Brown, WB8ELK, may also be contributing and flying hardware onboard as well.

We're taking a completely open stance on info sharing right from the start. We'd like to welcome others to compete, poke around our code, spectate, comment, compete or collaborate. All* of our technical details are/will be available at http://wiki.whitestarballoon.com.

Anyone in the balloon community is welcome to listen in on our meetings/work sessions, we will have a speakerphone at all the meetings tied into the conference call number. We have meetings VERY often in this rush to the Jet Stream season, usually 3-5 times per week, plus one scheduled conference call per week. Events calendar: http://www.google.com/calendar/embed?src=d2hpdGVzdGFyYmFsbG9vbkBnbWFpbC5jb20

There are multiple small teams working in parallel on the many mini-projects that are required to do a long duration balloon. We hope that the stuff we put together can be used by others as a starting point to spend time solving the next problems, getting better, going farther, easier. You will find info on the wiki on mini-projects that also still need help, which you're welcome to contribute to

For the first flight or two we'll be collecting a large amount of scientific data, at a very high data rate. We're aiming to have 1 minute data logging for the duration of the mission, and have all of it relayed down via telemetry, not stored in a data logger. (telemetry may be in bursts though, not every minute) For the first flight the Global Western TA Zero Pressure balloon envelopes will be instrumented to gather data on exactly what happens to a small ZP balloon. Temperature will be measured at three heights in the balloon, and differential air pressure (vs outside) will be measured at the top and bottom of the balloon. The temperature from solar heating is quite important to being able to understand and predict balloon performance, and very little data exists for that on this size of balloon.

There will be a mems barometric altimeter onboard the payload for altitude holding, instead of GPS altitude. The Telemetry is likely going to be a hybrid satellite data/HF system, where satellite uplink commands are used to pause the HF telemetry when no propagation is available. satellite is cheap if you only send about 3KB per month, but gets expensive quick as your data xferred goes up. Telemetry format and data modes are being explored now. Data compression will be used for telemetry data, in a defined method so data can be independently verified if desired. We're looking at ASCII 110 baud, 8 data bits, 1 stop bit, as an easy-to implement method, but also are looking at DominoEX. The problem with DominoEX is that it doesn't appear to allow 8-bit bytes. We'd really like a method that supports 8-bit data bytes to ease the flight computer programming. We'd welcome any suggestions here.

Telemetry is going to be sent at regular intervals over HF during normal propagation. Position-only data will be sent via satellite at all times to ensure ATC knows where we are at all times. After propagation dropouts, however, all the backlogged data will be sent in

a CONTINUOUS BURST until caught up with realtime. This will be commanded via satellite uplink.

There will likely be a tip-over cutdown, remotely commandable via satellite.

Ballast will be liquid alcohol, using an identical system to SNOX for the first SpeedBall or two, as we develop improvements to shed more than just 6lbs.

We'll be communicating with every ATC center we pass through via telephone for all phases of the flight. This will be an intensive job, requiring a phone call at least once every 30 minutes, for 24-72 hours while over the ocean. We would like some help on this if anyone is interested, so we can do this in shifts. Training would be provided, but pilots or ATC controllers are preferable.

Background on the names
SpeedBall will be the name of all our Jet Stream flights - a nod to the other trans-atlantic speeder, the Concorde. It's ATC radio callsign was SpeedBird. The HighBall-1 latex flight this weekend is merely to get our launch crew some launch coordination experience, and our local ATC some comfort with us. It's not going to go fast, so no SpeedBall name for it. I know HighBall isn't very original, but it's a pretty typical latex flight anyway!

Thanks,
Dan

*There is a private section of the wiki, but I'll tell you what's in there - service plan data that we had to sign an NDA to get from Orbcomm, passwords to websites like twitter, our personal members contact info, and our money records.

8674. ZP Balloons for sale

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 18:38:19 UTC
From: dbowen1
Topic: 8674 Message: 8674

Hi All,

We're going to be buying ZP balloons from Global Western this month. There's a 10 item minimum, at $300, but we only need 5. We'll buy em all if we have to, and sell them later, but it makes it easier if we don't have to pay the whole cost of 10. Someone else has expressed interest, but not commitment, to split the order with us. So we're looking around to make sure we have backup. Anyone out there interested in buying 1 to 5 ~1000 cu ft zero pressure polyethylene balloons? Their design may change slightly, but the general idea is ~1000 cu ft, 11 to 12 lb payload, float somewhere (TBD exactly soon) between 30,000 and 40,000 ft.

Drop me a line if interested.

Thanks,

Dan Bowen

White Star Balloon team

8675. Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 19:22:21 UTC
From: Mark Conner
Topic: 8675 Message: 8675
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.dailymail.co.uk/sciencetech/article-1318814/Luke-Geissbuhler-son-send-weather-balloon-100-000ft-space-capture-amazing-video-footage.html

One item of interest is that his capsule was almost directly attached to the neck of the balloon. This should improve the stability a lot. I might take a whack at a similar approach - you should get very stable ascent video, but descent won't be so good.

[image: article-1318814-0B87A1C8000005DC-517_634x477.jpg]

73 de Mark N9XTN

8676. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 19:38:52 UTC
From: Joe
Topic: 8675 Message: 8676
Attachments: 2 described; binary payloads are missing from this source WARC

From our balloons motions I don't think it would be very stable, and
after watching the video from the balloon, it's agrees with me. it's
not stable at all.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/8/2010 2:22 PM, Mark Conner wrote:
>
>
> http://www.dailymail.co.uk/sciencetech/article-1318814/Luke-Geissbuhler-son-send-weather
-balloon-100-000ft-space-capture-amazing-video-footage.html
>
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> I might take a whack at a similar approach - you should get very
> stable ascent video, but descent won't be so good.
>
> article-1318814-0B87A1C8000005DC-517_634x477.jpg
>
> 73 de Mark N9XTN
>
>
>
>

8677. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 20:49:45 UTC
From: Michael Willett
Topic: 8675 Message: 8677
Attachments: 1 described; binary payloads are missing from this source WARC

A few ARBONET flights have the payload directly connected to the balloon, including ARBONET 4 which is going up tomorrow. Yes, it dramatically stabilizes the video. Most of the spinning is created by the tether lines.

This configuration makes the parachute portion difficult. In this case ARBONET is studying the balloon pressure to understand the dynamics of what happens with the pressure and how we can intelligently work with the pressure to facilitate a return to earth via the balloon and not the parachute.

Bill brown has also done some of these flights, along with his students as a project. Bill and I talked about the methods of venting and and we had very similar ideas here. Tomorrow's flight will be flying our new balloon board with integral voice beacon on 70 cm as well as log the data into internal memory.

A video camera will be facing outward this time rather than down, hoping to capture some of the views of earth and the horizon.

See ARBONET.NET for more info on this flight.

--Michael K5NOT

On 10/8/2010 2:22 PM, Mark Conner wrote:
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> article-1318814-0B87A1C8000005DC-517_634x477.jpg
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> 73 de Mark N9XTN
>
>

8678. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 20:57:23 UTC
From: Joe
Topic: 8675 Message: 8678
Attachments: 2 described; binary payloads are missing from this source WARC

What am I watching different?

I watched the video from that link, and do you all call that more stable?

Or am i watching something different?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/8/2010 3:49 PM, Michael Willett wrote:
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> A few ARBONET flights have the payload directly connected to the
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> the parachute.
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> students as a project. Bill and I talked about the methods of venting
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> well as log the data into internal memory.
>
> A video camera will be facing outward this time rather than down,
> hoping to capture some of the views of earth and the horizon.
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> See ARBONET.NET for more info on this flight.
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>> 73 de Mark N9XTN
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>

8679. Different Groups

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 21:58:27 UTC
From: Joe
Topic: 8679 Message: 8679
Attachments: 1 described; binary payloads are missing from this source WARC

Well the decision of making a new group for just chit chat like now
but using Google Groups instead, was a slam dunk now. At least in my
opinion they just made it simple, but they will be shutting down the
ability to store files on the group sites.

http://groups-announcements.blogspot.com/2010/09/notice-about-pages-and-files.html?hl=en

Without that handy feature it will kinda suck.

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8680. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 22:00:51 UTC
From: Michael Willett
Topic: 8675 Message: 8680
Attachments: 2 described; binary payloads are missing from this source WARC

I did not watch the video in the recent email, but here is an ARBONET
video for you to look at. It is pretty stable for not having ANY type of
stabilization system.

http://www.youtube.com/watch?v=hvk3hurtEVY

--Michael

On 10/8/2010 3:57 PM, Joe wrote:
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>
> I watched the video from that link, and do you all call that more stable?
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>> On 10/8/2010 2:22 PM, Mark Conner wrote:
>>>
>>> http://www.dailymail.co.uk/sciencetech/article-1318814/Luke-Geissbuhler-son-send-weather-balloon-100-000ft-space-capture-amazing-video-footage.html
>>>
>>> One item of interest is that his capsule was almost directly
>>> attached to the neck of the balloon. This should improve the
>>> stability a lot. I might take a whack at a similar approach - you
>>> should get very stable ascent video, but descent won't be so good.
>>>
>>> article-1318814-0B87A1C8000005DC-517_634x477.jpg
>>>
>>> 73 de Mark N9XTN
>>>
>>

8681. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 22:16:17 UTC
From: Joe
Topic: 8675 Message: 8681
Attachments: 3 described; binary payloads are missing from this source WARC

That was great! especially for no trying to stabilize the payload.

It was the best i have seen for a non stabilized attempt.

Very Good Dudes!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/8/2010 5:00 PM, Michael Willett wrote:
>
> I did not watch the video in the recent email, but here is an ARBONET
> video for you to look at. It is pretty stable for not having ANY type
> of stabilization system.
>
> http://www.youtube.com/watch?v=hvk3hurtEVY
>
> --Michael
>
>
> On 10/8/2010 3:57 PM, Joe wrote:
>> What am I watching different?
>>
>> I watched the video from that link, and do you all call that more stable?
>>
>> Or am i watching something different?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 10/8/2010 3:49 PM, Michael Willett wrote:
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>>> A few ARBONET flights have the payload directly connected to the
>>> balloon, including ARBONET 4 which is going up tomorrow. Yes, it
>>> dramatically stabilizes the video. Most of the spinning is created
>>> by the tether lines.

>>>
>>> This configuration makes the parachute portion difficult. In this
>>> case ARBONET is studying the balloon pressure to understand the
>>> dynamics of what happens with the pressure and how we can
>>> intelligently work with the pressure to facilitate a return to earth
>>> via the balloon and not the parachute.
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>>> Bill brown has also done some of these flights, along with his
>>> students as a project. Bill and I talked about the methods of
>>> venting and and we had very similar ideas here. Tomorrow's flight
>>> will be flying our new balloon board with integral voice beacon on
>>> 70 cm as well as log the data into internal memory.
>>>
>>> A video camera will be facing outward this time rather than down,
>>> hoping to capture some of the views of earth and the horizon.
>>>
>>> See ARBONET.NET for more info on this flight.
>>>
>>> --Michael K5NOT
>>>
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>>>> article-1318814-0B87A1C8000005DC-517_634x477.jpg
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>>>> 73 de Mark N9XTN
>>>>
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>

8682. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 22:29:27 UTC
From: Michael Willett
Topic: 8675 Message: 8682
Attachments: 3 described; binary payloads are missing from this source WARC

I think the New York guys would have had better luck with a few improved ingredients:

1) Reduced ascent rate

2) Weight below the camera platform in the way of other payloads, or a drag chute like we had. This provide a "tail" of sorts, just like when we added a tail to our kites as kids. Our drag chute was actually an accident, but sure worked well to keep the balloon stable and the ascent in check!

--Michael
K5NOT

On 10/8/2010 5:16 PM, Joe wrote:
> That was great! especially for no trying to stabilize the payload.
>
> It was the best i have seen for a non stabilized attempt.
>
> Very Good Dudes!
>
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>> http://www.youtube.com/watch?v=hvk3hurtEVY
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>> --Michael
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>>>>> One item of interest is that his capsule was almost directly
>>>>> attached to the neck of the balloon. This should improve the
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>>>>>
>>>>> article-1318814-0B87A1C8000005DC-517_634x477.jpg
>>>>>
>>>>> 73 de Mark N9XTN

>>>>>
>>>>
>>

8683. Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-08 23:09:50 UTC
From: Jerry Gable
Topic: 8675 Message: 8683

Michael,

Let us know how the pressure measurement goes. I plan on launching one in a couple of weeks to measure the pressure also. The more data points we can get the better.

Jerry

From: Michael Willett <mw@...>
To: GPSL@yahoogroups.com
Cc: Mark Conner <mconner1@...>; KNSP List <KNSP@yahoogroups.com>
Sent: Fri, October 8, 2010 1:49:45 PM
Subject: Re: [GPSL] Journey from the edge of space: Father and son capture amazing video footage... using an iPhone and HD camera

A few ARBONET flights have the payload directly connected to the balloon, including ARBONET 4 which is going up tomorrow. Yes, it dramatically stabilizes the video. Most of the spinning is created by the tether lines.

This configuration makes the parachute portion difficult. In this case ARBONET is studying the balloon pressure to understand the dynamics of what happens with the pressure and how we can intelligently work with the pressure to facilitate a return to earth via the balloon and not the parachute.

Bill brown has also done some of these flights, along with his students as a project. Bill and I talked about the methods of venting and and we had very similar ideas here. Tomorrow's flight will be flying our new balloon board with integral voice beacon on 70 cm as well as log the data into internal memory.

A video camera will be facing outward this time rather than down, hoping to capture some of the views of earth and the horizon.

See ARBONET.NET for more info on this flight.

--Michael K5NOT

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>One item of interest is that his capsule was almost directly

>attached to the neck of the balloon. This should improve the
>stability a lot. I might take a whack at a similar approach - you
>should get very stable ascent video, but descent won't be so good.
>
>
>
>73 de Mark N9XTN
>
>

8684. America's Challenge gas balloon race has launched

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-09 12:30:41 UTC
From: Mike Manes
Topic: 8684 Message: 8684

And ... they're OFF!

http://www.balloonfiesta.com/GasTracking/2010/

So far, their trajectories are all generally ESE, averaging
about 20 mph. Unless there's a major wind shift, it doesn't appear
that they'll be coming over Colorado. But W TX is a pretty sure shot
this AM.

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8685. ARBONET 4

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-09 14:25:06 UTC
From: Joe
Topic: 8685 Message: 8685
Attachments: 1 described; binary payloads are missing from this source WARC

ANYONE HAVE ANY STATUS ON THIS FLIGHT?
--

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Idle-Tyme.com
http://www.idle-tyme.com

8686. Re: [Balloon_Sked] HELP!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-09 15:04:07 UTC
From: L. Paul Verhage
Topic: 8686 Message: 8686

Bogus with a capital B.

Paul

On Sat, Oct 9, 2010 at 10:01 AM, Chris Fries <ccfries@...> wrote:

>
>
> Hello!!!
>
> I'm writing this with tears in my eyes, Am sorry I didn't inform you about
> my
> travelling. my fam and I came down here to London, England for a short
> vacation
> unfortunately we were mugged at the park of the hotel where we stayed.
> Mobile
> phones, all cash, credit card were stolen off us, but luckily for us we
> still
> have our passports with us.
>
> We've been to the embassy and the Police here, but they're not helping
> issues at
> all and our flight leaves in few hrs from now, but we're having problems
> settling the hotel bills and the hotel manager won't let us leave until we
> settle the bills.
>
> Am freaked out at the moment and I really need your help.
>
> Chris.
>
>

--
Onwards and Upwards,
Paul

8687. America's Challenge underway

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-09 15:19:32 UTC
From: Mark Conner
Topic: 8687 Message: 8687

http://www.findu.com/cgi-bin/find.cgi?k5gas-2,k5gas-3,k5gas-4,k5gas-7,k5gas-9,k5gas-5

http://www.balloonfiesta.com/GasTracking/2010/AmericasChallenge2010.kml

TX and OK stations should be able to hear them direct today. General track
will be to the east for the next 48 hours.

73 de Mark N9XTN

8688. Looking for Chase and Recovery Crew

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-10 02:12:47 UTC
From: L. Paul Verhage
Topic: 8688 Message: 8688

I just got word from Washburn that they are good for a launch this Saturday. I'd like to line up chase and recovery crews. If you can help out, please let me know.

We'll launch from Topeka in the morning.

--
Onwards and Upwards,
Paul

8689. America's Challenge balloons moving NE through Missouri

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-10 17:24:02 UTC
From: Mark Conner
Topic: 8689 Message: 8689

Look for the K5GAS-* callsigns on APRS. Three of the balloons are in north-central Missouri, the fourth is south of Columbia MO. All are moving NE at about 25-30 mph. They should continue NE over northern Illinois and Indiana over the next 36 hours if they continue flying.

73 de Mark N9XTN

8690. ARBONET 4 POST-FLIGHT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-10 18:13:26 UTC
From: Michael Willett
Topic: 8690 Message: 8690

Hi!

I have posted the post flight synopsis of the ARBONET 4 flight on the
ARBONET news blog:

http://www.arbonet.net/blog/

We will add more data over the next few weeks.

--Michael
K5NOT

8691. Re: [Balloonatics] ARBONET 4 POST-FLIGHT - APRS footprint

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-10 20:22:48 UTC
From: Michael Willett
Topic: 8691 Message: 8691

Thanks Lynn!

I have copied this to a few other yahoo reflector groups for their interest (see Lynn's link below).

That is very interesting to see how far we hit digi's and repeaters, and it appears there was no problem with flooding the network, still at 300mw we were well heard from a few thousand feet through near 84K ft!

I set this flight at Wide2-1 because we are in the middle of nowhere at times and this APRS tracker (MicroTrak-300) could not switch to the desirable no path at a few thousand off the ground.

I appreciate you running this report, I really like seeing that data!

--Michael
K5NOT

On 10/10/2010 2:08 PM, Lynn W. Deffenbaugh (Mr) wrote:
> APRS Infrastructure usage graphs are now available at:
>
> http://ldeffenb.dnsalias.net.nyud.net/Tracking/Balloons/K5ARB-11*
>
> Lynn (D) - KJ4ERJ - APRS Infrastructure Visualization
>
> Michael Willett wrote:
>>
>> Hi!
>>
>> I have posted the post flight synopsis of the ARBONET 4 flight on the
>> ARBONET news blog:
>>
>> http://www.arbonet.net/blog/
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>> We will add more data over the next few weeks.
>>
>> --Michael
>> K5NOT
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

>
>
>
>

8692. The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 13:53:05 UTC
From: Joe
Topic: 8692 Message: 8692
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email

--

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http://www.idle-tyme.com

8693. HAB talk

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 14:34:48 UTC
From: jmhannnon
Topic: 8693 Message: 8693

Announcing the next CARC (Collins Amateur Radio Club) meeting (Tues., Oct. 19 2010)iHAB presentation at 5:00 PM. This meeting is going to be held at the St. Lukes Hospital Auditorium, Cedar Rapids IA. The reason we are holding it at the auditorium this time is due to this meeting's speaker: Mr. Marshall Dias (WØOTM), the individual responsible for the two iHAB (Iowa High Altitude Balloon) launches in August and October this year. Due to the interest in Mr. Dias' project, we have decided to open this meeting to the public so that Mr. Dias can present to as big an audience as possible. Pass the word along to any who might be interested in attending. http://www.ihabproject.com/
Now if I can just remember to go.

8694. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 17:53:41 UTC
From: Mark Garrett
Topic: 8692 Message: 8694

You want one of these, don't you Joe?

Mark

From: Joe <nss@...>

http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email

--

8695. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 18:05:36 UTC
From: Joe
Topic: 8692 Message: 8695
Attachments: 1 described; binary payloads are missing from this source WARC

They don't say how big it is, but it's gotta be gigantic! being
flat the volume is gonna be hard to make, then it's a rigid airship so
again it has a lot of weight, then if it's capable of lifting 165 tons
of payload. Like how huge is this thing!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/11/2010 12:53 PM, Mark Garrett wrote:
>
>
> You want one of these, don't you Joe?
>
> Mark
>
>
> ---
> *From:* Joe <nss@...>
> **
> http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribe
rs&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscrib
ers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>
> --
>
>
>
>

8696. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 18:10:33 UTC
From: Mark Garrett
Topic: 8692 Message: 8696
Attachments: 1 described; binary payloads are missing from this source WARC

It appears to be quiet large, not sure how they control it vertically but it would be an interesting thing to see working.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Mon, October 11, 2010 1:05:36 PM
Subject: Re: [GPSL] The Colorado Balloon Boy Re Visited!

They don't say how big it is, but it's gotta be gigantic! being flat the volume is gonna be hard to make, then it's a rigid airship so again it has a lot of weight, then if it's capable of lifting 165 tons of payload. Like how huge is this thing!

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On 10/11/2010 12:53 PM, Mark Garrett wrote:

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>
>
>--
>
>

8697. Windows 7

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 21:46:39 UTC
From: HarryM
Topic: 8697 Message: 8697

I'm looking at buying a laptop with Windows Vista 32bit Buisness.
Does anyone know if APRS+SA works with it or any issues running
DOS based software?

73 Harry KC5TRB

8698. Re: [GPSL] Windows 7

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 21:55:40 UTC
From: Mark Conner
Topic: 8697 Message: 8698

I have used APRS+SA and SA9 on 64-bit Vista (can't remember which Home version) and Win7 Home Premium with no issues, but not specifically Vista 32-bit Business.

73 de Mark N9XTN

On Mon, Oct 11, 2010 at 16:46, HarryM <hhm_74115@...> wrote:

>
>
> I'm looking at buying a laptop with Windows Vista 32bit Buisness.
> Does anyone know if APRS+SA works with it or any issues running
> DOS based software?
>
> 73 Harry KC5TRB
>
>
>
>
>

8699. Re: [GPSL] Windows 7

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 21:56:31 UTC
From: Zack Clobes
Topic: 8697 Message: 8699

I've had very few issues with 32bit version of Vista or Win7. I know that
WinLift works fine with either, but I haven't tried APRS+SA.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Oct 11, 2010 at 4:46 PM, HarryM <hhm_74115@...> wrote:

>
>
> I'm looking at buying a laptop with Windows Vista 32bit Buisness.
> Does anyone know if APRS+SA works with it or any issues running
> DOS based software?
>
> 73 Harry KC5TRB
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>
>

8700. Re: [GPSL] Windows 7

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 22:33:54 UTC
From: HarryM
Topic: 8697 Message: 8700

Mark, Zack,

Thanks for the input. I just had the laptop brought to me.
I loaded APRS+ and it seems to work ok. One issue is that
it won't accept my registration number. Every time I start
it I have to reenter all the info. Ant thoughts?

Harry

8701. Re: [GPSL] Windows 7

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-11 22:50:32 UTC
From: HarryM
Topic: 8697 Message: 8701

Its been so long since I loaded APRS+ that I forgot that it doesn't automatically save the setup file. You have to enter the main setup and file save manually. It works fine now. Thanks!

73 Harry

8702. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 00:12:40 UTC
From: Mike Manes
Topic: 8692 Message: 8702

Based on the superimposed image of Boeing 780, I'd guess it's at least
1000 ft in diameter. Big sucker! Imagine the service hangar ...
73 de Mike W5VSI

On 10/11/2010 12:05, Joe wrote:
> They don't say how big it is, but it's gotta be gigantic! being flat the
> volume is gonna be hard to make, then it's a rigid airship so again it has a
> lot of weight, then if it's capable of lifting 165 tons of payload. Like how
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>> --
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8703. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 00:18:35 UTC
From: Mike Manes
Topic: 8692 Message: 8703

I'm guessing that the envelope is neutrally buoyant. The props around the periphery are cyclic, so they can produce thrust both vertically and horizontally - like on a helo.

On 10/11/2010 12:10, Mark Garrett wrote:
> It appears to be quiet large, not sure how they control it vertically but it
> would be an interesting thing to see working.
>
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Mon, October 11, 2010 1:05:36 PM
> *Subject:* Re: [GPSL] The Colorado Balloon Boy Re Visited!
>
> They don't say how big it is, but it's gotta be gigantic! being flat the
> volume is gonna be hard to make, then it's a rigid airship so again it has a
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>
> On 10/11/2010 12:53 PM, Mark Garrett wrote:
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>> *From:* Joe <nss@...>
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>> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>
>> --
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

8704. RE: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 00:59:28 UTC
From: DON FRASER
Topic: 8692 Message: 8704

Mike;

Would the balloon envelope also generate lift if moving faster than the air around it?

Don

To: GPSL@yahoogroups.com
CC: ka9szx@...m
From: mrmanes@...
Date: Mon, 11 Oct 2010 18:18:35 -0600
Subject: Re: [GPSL] The Colorado Balloon Boy Re Visited!

I'm guessing that the envelope is neutrally buoyant. The props around the
periphery are cyclic, so they can produce thrust both vertically and
horizontally - like on a helo.

On 10/11/2010 12:10, Mark Garrett wrote:
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> would be an interesting thing to see working.
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> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Mon, October 11, 2010 1:05:36 PM
> *Subject:* Re: [GPSL] The Colorado Balloon Boy Re Visited!
>
> They don't say how big it is, but it's gotta be gigantic! being flat the
> volume is gonna be hard to make, then it's a rigid airship so again it has a
> lot of weight, then if it's capable of lifting 165 tons of payload. Like how
> huge is this thing!
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>
> On 10/11/2010 12:53 PM, Mark Garrett wrote:
>> You want one of these, don't you Joe?
>>
>> Mark
>>
>>
>> ---
>> *From:* Joe <nss@...>
>> **

>> http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
>> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>
>> --
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8705. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 02:26:04 UTC
From: Joe
Topic: 8692 Message: 8705
Attachments: 1 described; binary payloads are missing from this source WARC

And I'd like to see propellers that have 165 tones of lift wow..

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/11/2010 7:59 PM, DON FRASER wrote:
>
>
> Mike;
>
> Would the balloon envelope also generate lift if moving faster than
> the air around it?
>
> Don
>
> ---
> To: GPSL@yahoogroups.com
> CC: ka9szx@...
> From: mrmanes@...
> Date: Mon, 11 Oct 2010 18:18:35 -0600
> Subject: Re: [GPSL] The Colorado Balloon Boy Re Visited!
>
> I'm guessing that the envelope is neutrally buoyant. The props around the
> periphery are cyclic, so they can produce thrust both vertically and
> horizontally - like on a helo.
>
> On 10/11/2010 12:10, Mark Garrett wrote:
> > It appears to be quiet large, not sure how they control it
> vertically but it
> > would be an interesting thing to see working.
> >
> >
> > --
> > *From:* Joe <nss@... <mailto:nss@...>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > *Sent:* Mon, October 11, 2010 1:05:36 PM
> > *Subject:* Re: [GPSL] The Colorado Balloon Boy Re Visited!
> >
> > They don't say how big it is, but it's gotta be gigantic! being flat the
> > volume is gonna be hard to make, then it's a rigid airship so again
> it has a
> > lot of weight, then if it's capable of lifting 165 tons of payload.

> Like how
> > huge is ! ! this thing!
> >
> > The Original Rolling Ball Clock
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> > Idle-Tyme.com <http://Idle-Tyme.com <http://idle-tyme.com/>>
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> >>
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> >> *From:* Joe <nss@... <mailto:nss@...>>
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> >>
> http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscribe
rs&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscrib
ers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>
> >>
> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscrib
ers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
> <http://www.gizmag.com/skylif%21%0A%21%0Ater-flying-saucer-airship/16611/?utm_source=Giz
mag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>>
> >> --
> >>
> > >
> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
> >
> >
> >

8706. BASE 53 on Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 15:35:30 UTC
From: BASE
Topic: 8706 Message: 8706

BASE 53 is still scheduled for launch around 1700 UTC (1 pm Eastern Daylight Time) on Thursday, October 14.

Predicted trajectory winds will move the launch site to the Northmont Schools (north of Crawfordsville, Indiana). Predicted landing is between Columbus and Greensburg, Indiana. Target ascent rate of 1000 ft/min. 1200 gram Helium filled balloon with a payload of just under 8 pounds. Anticipated burst altitude of 95,000 feet.

Some radio changes. Multimode (DominoEX 22, Hellschrieber, CW) will be on 146.565 MHz with the call sign: N9QGS.

Primary ARPS on 144.39 MHz under W9YJ-11 at minute +52 seconds.
Secondary ARPS on 144.39 MHz under N9QGS-ll.

Flight may be postponed if strong surface winds arise on Thursday afternoon.

Thanks for your support,
Howard, KC9QBN

8707. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 20:03:37 UTC
From: Mike Bogard
Topic: 8580 Message: 8707

Hello Paul.
I just got the note from Keith wa0tjt about the balloon launch in Topeka on Saturday. I will be at the last big local hamfest in the Kansas City area this year. I would think that most hams would try to make this one also. If you launch on Sunday or next week let me know as I would be glad to chase and help recover it. Have fun be safe! Mike KDØFW

8708. Re: [GPSL] The Colorado Balloon Boy Re Visited!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-12 20:42:33 UTC
From: Mike Manes
Topic: 8692 Message: 8708

There may also be an air ballast bladder inside the envelope to control the
free lift. That would make a lot of sense, given the stated mission and the
rigid envelope.
73 de Mike W5VSI

On 10/11/2010 20:26, Joe wrote:
> And I'd like to see propellers that have 165 tones of lift wow..
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 10/11/2010 7:59 PM, DON FRASER wrote:
>> Mike;
>>
>> Would the balloon envelope also generate lift if moving faster than the air
>> around it?
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>> Don
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>> ---
>> To: GPSL@yahoogroups.com
>> CC: ka9szx@...
>> From: mrmanes@...
>> Date: Mon, 11 Oct 2010 18:18:35 -0600
>> Subject: Re: [GPSL] The Colorado Balloon Boy Re Visited!
>>
>> I'm guessing that the envelope is neutrally buoyant. The props around the
>> periphery are cyclic, so they can produce thrust both vertically and
>> horizontally - like on a helo.
>>
>> On 10/11/2010 12:10, Mark Garrett wrote:
>> > It appears to be quiet large, not sure how they control it vertically but it
>> > would be an interesting thing to see working.
>> >
>> >
>> > ---
>> > *From:* Joe <nss@... <mailto:nss@...>>
>> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> > *Sent:* Mon, October 11, 2010 1:05:36 PM
>> > *Subject:* Re: [GPSL] The Colorado Balloon Boy Re Visited!
>> >
>> > They don't say how big it is, but it's gotta be gigantic! being flat the
>> > volume is gonna be hard to make, then it's a rigid airship so again it has a

>> > lot of weight, then if it's capable of lifting 165 tons of payload. Like how
>> > huge is ! ! this thing!
>> >
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>> > http://www.idle-tyme.com <http://www.idle-tyme.com/>
>> >
>> > On 10/11/2010 12:53 PM, Mark Garrett wrote:
>> >> You want one of these, don't you Joe?
>> >>
>> >> Mark
>> >>
>> >>
>> >> --
>> >> *From:* Joe <nss@... <mailto:nss@...>>
>> >> **
>> >>
>> http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscrib
ers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
>> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscri
bers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>
>> >>
>> <http://www.gizmag.com/skylifter-flying-saucer-airship/16611/?utm_source=Gizmag+Subscri
bers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email
>> <http://www.gizmag.com/skylif%21%0A%21%0Ater-flying-saucer-airship/16611/?utm_source=Gi
zmag+Subscribers&utm_campaign=bfcfa3eeff-UA-2235360-4&utm_medium=email>>
>> >> --
>> >>
>> >>
>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8709. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-13 13:34:36 UTC
From: L. Paul Verhage
Topic: 8580 Message: 8709

Thanks. Is it possible you could keep an eye on the near spacecraft at the hamfest? My cell number is 785 230-6866. It would be nice to know that even if people can't go on chase, they can still help out with backup tracking.

I may get another launch from KU in a week or two.

Paul

On Tue, Oct 12, 2010 at 3:03 PM, Mike Bogard <kd0fw@...> wrote:

>
>
> Hello Paul.
> I just got the note from Keith wa0tjt about the balloon launch in Topeka on
> Saturday. I will be at the last big local hamfest in the Kansas City area
> this year. I would think that most hams would try to make this one also. If
> you launch on Sunday or next week let me know as I would be glad to chase
> and help recover it. Have fun be safe! Mike KDØFW
>
>
>
>

--
Onwards and Upwards,
Paul

8710. Hacker Space Less Interested in Near Space?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-13 16:14:12 UTC
From: L. Paul Verhage
Topic: 8710 Message: 8710

http://twitoaster.com/country-us/johnbaichtal/near-space-balloons-are-hackerspace-projects-that-while-undoubtedly-super-fun-to-undertake-are-no-longer-newsworthy/

Umm, perhaps this means there will be fewer cell phone tracked launches?

--
Onwards and Upwards,
Paul

8711. ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-13 17:26:43 UTC
From: Mark Conner
Topic: 8711 Message: 8711

I sent this to John Derbyshire and he posted it to The Corner (National Review's main blog) without editing about 15 minutes ago. This should attract some more interest to ARHAB. Now I wish I'd have taken more time to write it up!

I'm not sure what the hit count per day is for NR's blog, but it's gotta be six figures.

http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire

Original post that prompted me to write in:
http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire

73 de Mark N9XTN

8712. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-13 17:35:39 UTC
From: Mike Bogard
Topic: 8580 Message: 8712

Have you done a prediction on where your balloon will travel. If it would travel about the same as the 3 balloons launched at the boy scout camp a few weeks ago it might just be coming down towards the hamfest location. If they have a wireless connection at the hamfest maybe I could keep an eye out for it. I will check and see. Mike KDØFW

8713. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-13 17:36:14 UTC
From: L. Paul Verhage
Topic: 8580 Message: 8713
Attachments: 1 described; binary payloads are missing from this source WARC

Here's the current predicted recovery zone.

Paul

On Wed, Oct 13, 2010 at 12:35 PM, Mike Bogard <kd0fw@...> wrote:

>
>
> Have you done a prediction on where your balloon will travel. If it would
> travel about the same as the 3 balloons launched at the boy scout camp a few
> weeks ago it might just be coming down towards the hamfest location. If they
> have a wireless connection at the hamfest maybe I could keep an eye out for
> it. I will check and see. Mike KDØFW
>
>
>
>

--
Onwards and Upwards,
Paul

8714. BASE 53 launch location change

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 01:39:45 UTC
From: BASE
Topic: 8714 Message: 8714

DePauw still plans to fly BASE 53 on Thursday (tomorrow), 14 October. Surface winds will be significant, over 10 mph with gusts to 18 mph, but not nearly as strong as for BASE 52.

The predictions for tomorrow's flight have stabilized. The launch location will be moved to the intersection of State Road 28 and US 52 near Clarks Hill, Indiana (40.253 N,86.697 W). Considering our departure constraints from DePauw, the launch may occur somewhat later than 1700 UTC (1 pm EDT).

Same radio configuration as announced early this week:

Primary APRS on 144.39 MHz with callsign W9YJ-11 (no path on +52 seconds). Secondary APRS on 144.39 MHz with callsign N9QGS-11.

Multimode (including DominoEX 22, CW, Hellschrieber) on 146.565 MHz with N9QGS

Landing predicted of 39.38N, 85.50W. Flight path looks very winter like, nearly straight line, 91 miles at 139 degrees, in just over two hours.

Thanks for your support,
Howard, KC9QBN

8715. Re: [GPSL] Upcoming Washburn Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 15:25:52 UTC
From: L. Paul Verhage
Topic: 8580 Message: 8715
Attachments: 1 described; binary payloads are missing from this source WARC

Here's the latest prediction. We're launching at 9 AM.

On Wed, Oct 13, 2010 at 12:35 PM, Mike Bogard <kd0fw@...> wrote:

>
>
> Have you done a prediction on where your balloon will travel. If it would
> travel about the same as the 3 balloons launched at the boy scout camp a few
> weeks ago it might just be coming down towards the hamfest location. If they
> have a wireless connection at the hamfest maybe I could keep an eye out for
> it. I will check and see. Mike KDØFW
>
>
>
>

--
Onwards and Upwards,
Paul

8716. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 15:42:46 UTC
From: Roger Hammond
Topic: 8711 Message: 8716

Nicely written.

Rog KC0MWM

On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:

>
>
> I sent this to John Derbyshire and he posted it to The Corner (National
> Review's main blog) without editing about 15 minutes ago. This should
> attract some more interest to ARHAB. Now I wish I'd have taken more time to
> write it up!
>
> I'm not sure what the hit count per day is for NR's blog, but it's gotta be
> six figures.
>
> http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire
>
> Original post that prompted me to write in:
> http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire
>
> 73 de Mark N9XTN
>
>
>
>

8717. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 15:49:11 UTC
From: L. Paul Verhage
Topic: 8711 Message: 8717

Agreed. We all should find a way to get the word out like this.

Paul

On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...> wrote:

>
>
> Nicely written.
>
> Rog KC0MWM
>
> On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:
>
>>
>>
>> I sent this to John Derbyshire and he posted it to The Corner (National
>> Review's main blog) without editing about 15 minutes ago. This should
>> attract some more interest to ARHAB. Now I wish I'd have taken more time to
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>> be six figures.
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>> http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire
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>> Original post that prompted me to write in:
>> http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire
>>
>> 73 de Mark N9XTN
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Onwards and Upwards,
Paul

8718. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 16:11:16 UTC
From: Mark Conner
Topic: 8711 Message: 8718

This one was a nice target of opportunity on a blog I read pretty regularly. However, it didn't result in as much of a spike in the YouTube view count as I thought it might. Even so, I encourage anyone who encounters such stories on news sites and so on to at least add a comment and/or contact the story author to provide more context.

John Derbyshire really likes this sort of thing. If you go to his website, you'll see how he documented the construction of a treehouse in his back yard. Pretty fascinating - he's got a great mind for engineering even though he makes his money as a writer. I wouldn't put it past him to try something like (AR)HAB himself and feature it at some point.

73 de Mark N9XTN

On Thu, Oct 14, 2010 at 10:49, L. Paul Verhage <nearsys@...> wrote:

>
>
> Agreed. We all should find a way to get the word out like this.
>
> Paul
>
> On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...> wrote:
>
>>
>>
>> Nicely written.
>>
>> Rog KC0MWM
>>
>> On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:
>>
>>>
>>>
>>> I sent this to John Derbyshire and he posted it to The Corner (National
>>> Review's main blog) without editing about 15 minutes ago. This should
>>> attract some more interest to ARHAB. Now I wish I'd have taken more time to
>>> write it up!
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>>> be six figures.
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>>>
>>> Original post that prompted me to write in:
>>> http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire

>>>
>>> 73 de Mark N9XTN
>>>
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> --
> Onwards and Upwards,
> Paul
>
>
>
>

8719. RE: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 17:45:16 UTC
From: DON FRASER
Topic: 8711 Message: 8719

Perhaps we should invite John Derbyshire to the next GPSL. Granted he probably won't attend, but it is yes another way to raise awareness of ARHAB.

Don, WA9WWS

To: GPSL@yahoogroups.com
From: mconner1@...
Date: Thu, 14 Oct 2010 11:11:16 -0500
Subject: Re: [GPSL] ARHAB plug

This one was a nice target of opportunity on a blog I read pretty regularly. However, it didn't result in as much of a spike in the YouTube view count as I thought it might. Even so, I encourage anyone who encounters such stories on news sites and so on to at least add a comment and/or contact the story author to provide more context.

John Derbyshire really likes this sort of thing. If you go to his website, you'll see how he documented the construction of a treehouse in his back yard. Pretty fascinating - he's got a great mind for engineering even though he makes his money as a writer. I wouldn't put it past him to try something like (AR)HAB himself and feature it at some point.

73 de Mark N9XTN

On Thu, Oct 14, 2010 at 10:49, L. Paul Verhage <nearsys@...> wrote:

Agreed. We all should find a way to get the word out like this.

Paul

On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...> wrote:

Nicely written.

Rog KC0MWM

On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:

I sent this to John Derbyshire and he posted it to The Corner (National Review's main blog) without editing about 15 minutes ago. This should attract some more interest to ARHAB. Now I wish I'd have taken more time to write it up!

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http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire

Original post that prompted me to write in:
http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire

73 de Mark N9XTN

--
Onwards and Upwards,
Paul

8720. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 17:46:21 UTC
From: L. Paul Verhage
Topic: 8711 Message: 8720

Cool idea. Hey Mark......

On Thu, Oct 14, 2010 at 12:45 PM, DON FRASER <wa9wws@...> wrote:

>
>
> Perhaps we should invite John Derbyshire to the next GPSL. Granted he
> probably won't attend, but it is yes another way to raise awareness of
> ARHAB.
>
> Don, WA9WWS
>
> ------------------------------
> To: GPSL@yahoogroups.com
> From: mconner1@...
> Date: Thu, 14 Oct 2010 11:11:16 -0500
> Subject: Re: [GPSL] ARHAB plug
>
>
> This one was a nice target of opportunity on a blog I read pretty
> regularly. However, it didn't result in as much of a spike in the YouTube
> view count as I thought it might. Even so, I encourage anyone who
> encounters such stories on news sites and so on to at least add a comment
> and/or contact the story author to provide more context.
>
> John Derbyshire really likes this sort of thing. If you go to his website,
> you'll see how he documented the construction of a treehouse in his back
> yard. Pretty fascinating - he's got a great mind for engineering even
> though he makes his money as a writer. I wouldn't put it past him to try
> something like (AR)HAB himself and feature it at some point.
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> 73 de Mark N9XTN
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> On Thu, Oct 14, 2010 at 10:49, L. Paul Verhage <nearsys@...> wrote:
>
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> Agreed. We all should find a way to get the word out like this.
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> On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...> wrote:
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> 73 de Mark N9XTN
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

8721. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-14 18:54:45 UTC
From: Mark Conner
Topic: 8711 Message: 8721

Might work. GPSL 2011 hasn't been nailed down for location/date other than
July-ish and Pueblo-ish, right?

- Mark

On Thu, Oct 14, 2010 at 12:46, L. Paul Verhage <nearsys@...> wrote:

>
>
> Cool idea. Hey Mark......
>
>
> On Thu, Oct 14, 2010 at 12:45 PM, DON FRASER <wa9wws@...> wrote:
>
>>
>>
>> Perhaps we should invite John Derbyshire to the next GPSL. Granted he
>> probably won't attend, but it is yes another way to raise awareness of
>> ARHAB.
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>> Don, WA9WWS
>>
>> ------------------------------
>> To: GPSL@yahoogroups.com
>> From: mconner1@...
>> Date: Thu, 14 Oct 2010 11:11:16 -0500
>> Subject: Re: [GPSL] ARHAB plug
>>
>>
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>> website, you'll see how he documented the construction of a treehouse in his
>> back yard. Pretty fascinating - he's got a great mind for engineering even
>> though he makes his money as a writer. I wouldn't put it past him to try
>> something like (AR)HAB himself and feature it at some point.
>>
>> 73 de Mark N9XTN
>>
>> On Thu, Oct 14, 2010 at 10:49, L. Paul Verhage <nearsys@...> wrote:
>>
>>
>>

>>
>> Agreed. We all should find a way to get the word out like this.
>>
>> Paul
>>
>> On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...>wrote:
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>>
>>
>> Nicely written.
>>
>> Rog KC0MWM
>>
>> On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:
>>
>>
>>
>> I sent this to John Derbyshire and he posted it to The Corner (National
>> Review's main blog) without editing about 15 minutes ago. This should
>> attract some more interest to ARHAB. Now I wish I'd have taken more time to
>> write it up!
>>
>> I'm not sure what the hit count per day is for NR's blog, but it's gotta
>> be six figures.
>>
>> http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire
>>
>> Original post that prompted me to write in:
>> http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire
>>
>> 73 de Mark N9XTN
>>
>>
>

8722. Q - Live download imags from balloon to computer.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 06:40:08 UTC
From: Freddy W
Topic: 8722 Message: 8722

I posted this before.
I have two XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems.
I was just wondering how to use them and to connect them with a camera that takes every 30 sec. or so images and download them to a computer with the same modem ?
I just want to know what parts are needed inbetween this setup to make it work. I hope there some technicians out there who might have a suggestion ..
Freddy

8723. GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 10:28:46 UTC
From: Rob Wright
Topic: 8723 Message: 8723

Greetings,

Edge of Space Sciences is pleased to welcome the Great Plains Super Launch community to Colorado for the 2011 conference. The Pikes Peak Community College has generously offered meeting space at their Rampart Range Campus just North of Colorado Springs. The launch date has been scheduled for July 30, 2011.

EOSS would like to gauge your interest in a 2-day conference followed by the launch. Our proposed schedule features technical sessions and workshops on Thursday and Friday. We're still forming our plans on the workshops, but they will be hands-on sessions. EOSS welcomes your thoughts on whether you would be interested in such a 3-day event. The planning committee eagerly awaits your reply no later than October 29th, 2010 please.

In addition, we are also soliciting your thoughts on extending the event one more day to include tours of the United States Air Force Academy and the U.S. Olympic Training Center. These tours would be on Wed. morning and afternoon. They would be followed by a chuck wagon dinner at the Flying W ranch on Wed. night. The tours will most likely be free, but the dinner is $22 a head and includes a western music show after dinner. It's a most popular attraction in Colorado Springs. Great for the whole family. You would not have to attend the Wed. events to attend the 2-day tech session and then the launch on Sat.

Many may also be interested in driving out to Colorado on the Saturday and Sunday before GPSL and seeing a bit more of Colorado. A nice two-day extension would include Sunday night in Estes Park right on the edge of Rocky Mountain National Park. There's much too do in both the RMNP and in Estes Park, perhaps including a drive up Trail Edge Road (it's paved) to 12, 183 ft. Tuesday would be drive into the mountains via I-70 and then a trip over Loveland Pass and then down into the ski towns of Keystone and Breckenridge. Then on over Hoosier Pass and into Fairplay and across South Park to meet U.S. Rt 24 and on into Colorado Springs. The sharp-eyed will be able to see seven of Colorado's 54 14,000 ft. peaks on this drive. Maybe after lunch in Breckenridge a ride on the alpine slide down the ski slopes and then some window shopping in town. This about a 250 mile drive.

So please let us know your thoughts on a 3-day GPSL and your interest in the Wednesday tours. We'd be pleased to answer questions about the Monday/Tuesday trip if that extension strikes your fancy.

73,

Rob Wright
President
Edge of Space Sciences

www.eoss.org
kc0uuo@...

8724. Re: [GPSL] Q - Live download imags from balloon to computer.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 15:47:46 UTC
From: Jerry Gable
Topic: 8722 Message: 8724

Freddy,

You could start with a serial camera such as this one:
http://www.sparkfun.com/commerce/product_info.php?products_id=10061

Since it is RS232 and your modem is TTL levels you will need a level shifter
such as this one:

http://www.sparkfun.com/commerce/product_info.php?products_id=8780

ON the ground side you could hook up the modem through a USB to serial board
such as this:
http://www.sparkfun.com/commerce/product_info.php?products_id=198

With that setup in theory you could use the PC test software they supply to pull
pictures from the camera on the balloon. I didn't look at the details but you
may need a controller on the balloon to do some buffering but I believe you pull
blocks from the camera so that is probably not needed.

Jerry

From: Freddy W <frewi80@...>
To: GPSL@yahoogroups.com
Sent: Thu, October 14, 2010 11:40:08 PM
Subject: [GPSL] Q - Live download imags from balloon to computer.

I posted this before.
I have two XT09-PKI-RDA 1 Watt/900 MHz stand-alone radio modems.
I was just wondering how to use them and to connect them with a camera that
takes every 30 sec. or so images and download them to a computer with the same
modem ?
I just want to know what parts are needed inbetween this setup to make it work.
I hope there some technicians out there who might have a suggestion ..
Freddy

8725. BASE 53 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 17:40:18 UTC
From: BASE
Topic: 8725 Message: 8725

Dear friends,

BASE 53 was completed yesterday. New launch site near Clarks Hill, Indiana worked very well. There is a large, flat, open area with no power lines or trees to the east or south for several hundred meters.

System reached an altitude of 93,000 feet. Landing was east of Shelbyville, Indiana. Bill, WB8ELK copied Ron's (N9QGS) DominoEX22 in northern Alabama. Somewhat regrettably, the magnetic tree attraction effect returned at landing, after an absence of six flights, and the recovery required a sling-shot aided retrieval. One tracker radio and the parachute are still calling the top of the tree home, but they should come back to earth with a little more help.

The internet tracking of the APRS beacon was complicated by a strong i-gate from LaSalle, Illinois (W9MKS-15). This gate was hit by the airborne tracker from 12,000 feet on the ascent through 34,000 feet on the descent. Unfortunately this position reports were fed to the internet about twenty minutes or more after their transmission. The result was a delayed replay of the flight path which was seen on aprs.fi as an amazing return of the balloon from its landing point to a point on the track just before burst.

Our next flight is scheduled for 28 October.

Thanks for your support,
Howard, KC9QBN

8726. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 17:44:34 UTC
From: J B
Topic: 8723 Message: 8726

That all sounds great...a mini vaca.

Jack WY0F

From: Rob Wright <kc0uuo@...>
To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
Sent: Fri, October 15, 2010 5:28:46 AM
Subject: [GPSL] GPSL 2011

Greetings,

Edge of Space Sciences is pleased to welcome the Great Plains Super Launch community to Colorado for the 2011 conference. The Pikes Peak Community College has generously offered meeting space at their Rampart Range Campus just North of Colorado Springs. The launch date has been scheduled for July 30, 2011.

EOSS would like to gauge your interest in a 2-day conference followed by the launch. Our proposed schedule features technical sessions and workshops on Thursday and Friday. We're still forming our plans on the workshops, but they will be hands-on sessions. EOSS welcomes your thoughts on whether you would be interested in such a 3-day event. The planning committee eagerly awaits your reply no later than October 29th, 2010 please.

In addition, we are also soliciting your thoughts on extending the event one more day to include tours of the United States Air Force Academy and the U.S. Olympic Training Center. These tours would be on Wed. morning and afternoon. They would be followed by a chuck wagon dinner at the Flying W ranch on Wed. night. The tours will most likely be free, but the dinner is $22 a head and includes a western music show after dinner. It's a most popular attraction in Colorado Springs. Great for the whole family. You would not have to attend the Wed. events to attend the 2-day tech session and then the launch on Sat.

Many may also be interested in driving out to Colorado on the Saturday and Sunday before GPSL and seeing a bit more of Colorado. A nice two-day extension would include Sunday night in Estes Park right on the edge of Rocky Mountain National Park. There's much too do in both the RMNP and in Estes Park, perhaps including a drive up Trail Edge Road (it's paved) to 12, 183 ft. Tuesday would be drive into the mountains via I-70 and then a trip over Loveland Pass and then down into the ski towns of Keystone and Breckenridge. Then on over Hoosier Pass and into Fairplay and across South Park to meet U.S. Rt 24 and on into Colorado Springs. The sharp-eyed will be able to see seven of Colorado's 54 14,000 ft. peaks on this drive. Maybe after lunch in Breckenridge a ride on the alpine slide down the ski slopes and then some window shopping in town. This about a 250 mile drive.

So please let us know your thoughts on a 3-day GPSL and your interest in the Wednesday tours. We'd be pleased to answer questions about the Monday/Tuesday trip if that extension strikes your fancy.

73,

Rob Wright
President
Edge of Space Sciences
www.eoss.org
kc0uuo@...

8727. Re: [GPSL] ARHAB plug

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-15 18:29:20 UTC
From: Mark Conner
Topic: 8711 Message: 8727

Invitation has been extended based on the additional (and somewhat preliminary) details provided by Rob at EOSS this morning, which were very helpful to add some substance. I'll let you know if anything comes of it. Since John is a writer by trade, he might be able to combine this with a Colorado vacation and get a column out of it.

73 de Mark N9XTN

On Thu, Oct 14, 2010 at 12:46, L. Paul Verhage <nearsys@...> wrote:

>
>
> Cool idea. Hey Mark......
>
>
> On Thu, Oct 14, 2010 at 12:45 PM, DON FRASER <wa9wws@...> wrote:
>
>>
>>
>> Perhaps we should invite John Derbyshire to the next GPSL. Granted he
>> probably won't attend, but it is yes another way to raise awareness of
>> ARHAB.
>>
>> Don, WA9WWS
>>
>> ------------------------------
>> To: GPSL@yahoogroups.com
>> From: mconner1@...
>> Date: Thu, 14 Oct 2010 11:11:16 -0500
>> Subject: Re: [GPSL] ARHAB plug
>>
>>
>> This one was a nice target of opportunity on a blog I read pretty
>> regularly. However, it didn't result in as much of a spike in the YouTube
>> view count as I thought it might. Even so, I encourage anyone who
>> encounters such stories on news sites and so on to at least add a comment
>> and/or contact the story author to provide more context.
>>
>> John Derbyshire really likes this sort of thing. If you go to his
>> website, you'll see how he documented the construction of a treehouse in his
>> back yard. Pretty fascinating - he's got a great mind for engineering even
>> though he makes his money as a writer. I wouldn't put it past him to try
>> something like (AR)HAB himself and feature it at some point.
>>
>> 73 de Mark N9XTN
>>

>> On Thu, Oct 14, 2010 at 10:49, L. Paul Verhage <nearsys@...> wrote:
>>
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>>
>> Agreed. We all should find a way to get the word out like this.
>>
>> Paul
>>
>> On Thu, Oct 14, 2010 at 10:42 AM, Roger Hammond <kc0mwm@...>wrote:
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>>
>> Nicely written.
>>
>> Rog KC0MWM
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>> On Wed, Oct 13, 2010 at 12:26 PM, Mark Conner <mconner1@...> wrote:
>>
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>>
>> I sent this to John Derbyshire and he posted it to The Corner (National
>> Review's main blog) without editing about 15 minutes ago. This should
>> attract some more interest to ARHAB. Now I wish I'd have taken more time to
>> write it up!
>>
>> I'm not sure what the hit count per day is for NR's blog, but it's gotta
>> be six figures.
>>
>> http://www.nationalreview.com/corner/249653/can-do-nation-john-derbyshire
>>
>> Original post that prompted me to write in:
>> http://www.nationalreview.com/corner/249626/family-space-program-john-derbyshire
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>> 73 de Mark N9XTN
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>> Onwards and Upwards,
>> Paul
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> Onwards and Upwards,
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8728. Find Me Spot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-16 21:40:06 UTC
From: L. Paul Verhage
Topic: 8728 Message: 8728
Attachments: 1 described; binary payloads are missing from this source WARC

I sent a Find Me Spot on my near space flight this morning. We got a total of 16 position reports to the Spot satellite. One option was to download the data as a KML. I've attached the Google Earth image.

Pretty cool back up system. Thanks Bill for telling us about this.

--
Onwards and Upwards,
Paul

8729. Balloon Burst

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-17 01:20:09 UTC
From: L. Paul Verhage
Topic: 8729 Message: 8729

I got a video of a balloon burst from the ground. At six magnfication, the balloon is only a few pixels wide, but you can see it disappear when it bursts. The only bad thing about it is that I bumped the camera so the balloon is located in a lens flare.

I'll edit the video and post it.

--
Onwards and Upwards,
Paul

8730. Balloon Burst from Ground

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-17 20:34:26 UTC
From: L. Paul Verhage
Topic: 8730 Message: 8730

Here's a link to my latest video. I was able to record (barely) the balloon bursting at 88,469 feet. The balloon was several miles north of us in southeast Lawrence.

http://www.youtube.com/watch?v=29QLj_7YvkE

--
Onwards and Upwards,
Paul

8731. Re: [GPSL] Balloon Burst from Ground

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-17 20:47:51 UTC
From: Zack Clobes
Topic: 8730 Message: 8731

I'm thinking that your burst got lost in the compression with YouTube...

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, Oct 17, 2010 at 3:34 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> Here's a link to my latest video. I was able to record (barely) the
> balloon bursting at 88,469 feet. The balloon was several miles north of us
> in southeast Lawrence.
>
> http://www.youtube.com/watch?v=29QLj_7YvkE
>
> --
> Onwards and Upwards,
> Paul
>
>

8732. Re: [GPSL] Balloon Burst from Ground

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-17 20:49:03 UTC
From: L. Paul Verhage
Topic: 8730 Message: 8732

Uggh!!

Is there anther place to load a 10Mb video file for everyone to see?

Paul

On Sun, Oct 17, 2010 at 3:47 PM, Zack Clobes <zclobes@...> wrote:

>
>
> I'm thinking that your burst got lost in the compression with YouTube...
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
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> On Sun, Oct 17, 2010 at 3:34 PM, L. Paul Verhage <nearsys@...>wrote:
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>> balloon bursting at 88,469 feet. The balloon was several miles north of us
>> in southeast Lawrence.
>>
>> http://www.youtube.com/watch?v=29QLj_7YvkE
>>
>> --
>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8733. SPOT Report

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-18 02:59:42 UTC
From: L. Paul Verhage
Topic: 8733 Message: 8733
Attachments: 1 described; binary payloads are missing from this source WARC

Here's the report from SPOTT I received on yesterday's flight. I added a few position reports from my GPS and APRS for comparison.

--
Onwards and Upwards,
Paul

8734. Re: Re: [GPSL] Balloon Burst from Ground

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-18 05:33:32 UTC
From: gregwilliams@knology.net
Topic: 8730 Message: 8734

Viddler or Vimeo might be good for larger vids.

If there's a way to zoom in on the video area you're trying to show us, that might come through. Unfortunately I think YT's compression and artifacting has made it invisible on the video.

Good job, though. Like the shot of the airplane in the sky as it was launched.

Greg

On Sun 10/17/10 4:49 PM , "L. Paul Verhage" nearsys@... sent:
> Uggh!! Is there anther place to load a 10Mb video file for
> everyone to see? Paul
>
> On Sun, Oct 17, 2010 at 3:47 PM, Zack Clobes wrote:
> I'm thinking that your burst got lost in the compression with
> YouTube...
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org [2]
> On Sun, Oct 17, 2010 at 3:34 PM, L. Paul Verhage wrote:
>
>
> Here's a link to my latest video. I was able to record
> (barely) the balloon bursting at 88,469 feet. The balloon was
> several miles north of us in southeast Lawrence.
> http://www.youtube.com/watch?v=29QLj_7YvkE [4]
>
> --
> Onwards and Upwards,
> Paul
> --
> Onwards and Upwards,
> Paul
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>
> Links:
> ------
> [2] http://www.projecttraveler.org/
> [4] http://www.youtube.com/watch?v=29QLj_7YvkE
> [7]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJwaDY3OG1kBF9TAzk3MzU5Nz
> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzg3MzIEc2VjA2Z0cgRzb
> GsDcnBseQRzdGltZQMxMjg3MzQ4NTQ3?act=reply&messageNum=8732[8]
> http://groups.yahoo.com/group/GPSL/post;_ylc=X3oDMTJlb2g3cWN0BF9TAzk3MzU5Nz

> E0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA250cGMEc3Rpb
> WUDMTI4NzM0ODU0Nw--[9]
> http://groups.yahoo.com/group/GPSL/message/8730;_ylc=X3oDMTM0cmNkYWZnBF9TAz
> k3MzU5NzE0BGdycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BG1zZ0lkAzg3MzIEc2VjA
> 2Z0cgRzbGsDdnRwYwRzdGltZQMxMjg3MzQ4NTQ3BHRwY0lkAzg3MzA-[10]
> http://groups.yahoo.com/group/GPSL;_ylc=X3oDMTJlNWkyN21hBF9TAzk3MzU5NzE0BGd
> ycElkAzY3NjQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwN2dGwEc2xrA3ZnaHAEc3RpbWUDMT
> I4NzM0ODU0Nw--[11]
> http://groups.yahoo.com/;_ylc=X3oDMTJkYzYzcXRlBF9TAzk3NDc2NTkwBGdycElkAzY3N
> jQ0MTYEZ3Jwc3BJZAMxNzA1MDYzMTA4BHNlYwNmdHIEc2xrA2dmcARzdGltZQMxMjg3MzQ4NTQ3[15]
http://docs.yahoo.com/info/terms/
>
>

8735. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-18 13:42:02 UTC
From: L. Paul Verhage
Topic: 8723 Message: 8735

Please do a three day event. I like the idea of the tour of the USAFA. Workshops sound great. I wonder if we can whip out BalloonSats in a day?

I second going to RMNP. Trail Edge Road was spectacular last year, I highly recommend taking the trip.

Paul

On Fri, Oct 15, 2010 at 5:28 AM, Rob Wright <kc0uuo@...> wrote:

>
>
> Greetings,
>
> Edge of Space Sciences is pleased to welcome the Great Plains Super Launch community to Colorado for the 2011 conference. The Pikes Peak Community College has generously offered meeting space at their Rampart Range Campus just North of Colorado Springs. The launch date has been scheduled for July 30, 2011.
>
> EOSS would like to gauge your interest in a 2-day conference followed by the launch. Our proposed schedule features technical sessions and workshops on Thursday and Friday. We’re still forming our plans on the workshops, but they will be hands-on sessions. EOSS welcomes your thoughts on whether you would be interested in such a 3-day event. The planning committee eagerly awaits your reply no later than October 29th, 2010 please.
>
> In addition, we are also soliciting your thoughts on extending the event one more day to include tours of the United States Air Force Academy and the U.S. Olympic Training Center. These tours would be on Wed. morning and afternoon. They would be followed by a chuck wagon dinner at the Flying W ranch on Wed. night. The tours will most likely be free, but the dinner is $22 a head and includes a western music show after dinner. It’s a most popular attraction in Colorado Springs. Great for the whole family. You would not have to attend the Wed. events to attend the 2-day tech session and then the launch on Sat.
>
> Many may also be interested in driving out to Colorado on the Saturday and Sunday before GPSL and seeing a bit more of Colorado. A nice two-day extension would include Sunday night in Estes Park right on the edge of Rocky Mountain National Park. There’s much too do in both the RMNP and in Estes Park, perhaps including a drive up Trail Edge Road (it’s paved) to 12, 183 ft. Tuesday would be drive into the mountains via I-70 and then a trip over Loveland Pass and then down into the ski towns of Keystone and Breckenridge. Then on over Hoosier Pass and into Fairplay and across South Park to meet U.S. Rt 24 and on into Colorado Springs. The sharp-eyed will

> be able to see seven of Colorado’s 54 14,000 ft. peaks on this drive. Maybe
> after lunch in Breckenridge a ride on the alpine slide down the ski slopes
> and then some window shopping in town. This about a 250 mile drive.
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> So please let us know your thoughts on a 3-day GPSL and your interest in
> the Wednesday tours. We’d be pleased to answer questions about the
> Monday/Tuesday trip if that extension strikes your fancy.
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>
>
> 73,
>
> Rob Wright
> President
> Edge of Space Sciences
> www.eoss.org
> *kc0uuo@...*
>
>

--
Onwards and Upwards,
Paul

8736. Balloon Launch from KU?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-18 13:47:18 UTC
From: L. Paul Verhage
Topic: 8736 Message: 8736

I'm looking into a balloon launch from KU on Halloween morning. Anyone in the area that could help out?

--
Onwards and Upwards,
Paul

8737. SPOT Report

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-18 13:50:06 UTC
From: L. Paul Verhage
Topic: 8733 Message: 8737
Attachments: 1 described; binary payloads are missing from this source WARC

Here's the text report from SPOT. I added the altitudes at each of the reports and the landing position according to APRS and my GPS.

I like the extra precision in the SPOT reports.

--
Onwards and Upwards,
Paul

8738. Re: [GPSL] Find Me Spot [1 Attachment]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-19 01:44:18 UTC
From: Jerry Gable
Topic: 8728 Message: 8738

I also bought a SPOT but I haven't sent it on a flight yet.

One thing I wanted to do was display the last few locations on my smart phone. There is an app but the one for blackberry doesn't work on my phone. So using yahoo pipes I created the following pipe. It will display the last 5 locations on any phone with google maps or on google maps on a PC.

NOTE: There are some refresh issues that will be addressed later in this email.

To test this simply paste this ugly link into the search box on google maps (phone or maps.google.com). You will see 5 locations in my back yard.

http://pipes.yahoo.com/pipes/pipe.run?_id=c386900fbf430d8405b9e19112b24992&_render=kml&glid=0RDW6oJpmYBqxAXMY225uknXLFVmhDnuC&dummy=1

Simply replace the glid= number with the glid number in the shared spot page.

Now for the refresh issue. Google maps caches the URL search for 30 minutes. If you put in a previous URL it will use the old data and not refresh it. To get around this I added the dummy value at the end of the url. This value is not used but if you change it google thinks it is a new URL and refreshes the data.

I figure this will be handy for that final hike through the desert or finding my care in big parking lots:)

I am going to look into doing something similar for APRS data. I think I have a source of the data.

If someone knows of something that already exits for this let me know.

Jerry

From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Sat, October 16, 2010 2:40:06 PM
Subject: [GPSL] Find Me Spot [1 Attachment]

[Attachment(s) from L. Paul Verhage included below]
I sent a Find Me Spot on my near space flight this morning. We got a total of 16 position reports to the Spot satellite. One option was to download the data as a KML. I've attached the Google Earth image.

Pretty cool back up system. Thanks Bill for telling us about this.

--
Onwards and Upwards,

Paul

8739. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 01:19:06 UTC
From: Mike Manes
Topic: 8723 Message: 8739

For those looking it up online, it's Trail RIDGE Road - from Estes Park across the continental divide to near the headwaters of the Colorado River at Grand Lake, CO.
73 de Mike W5VSI

On 10/18/2010 07:42, L. Paul Verhage wrote:
>
>
> Please do a three day event. I like the idea of the tour of the USAFA.
> Workshops sound great. I wonder if we can whip out BalloonSats in a day?
> I second going to RMNP. Trail Edge Road was spectacular last year, I highly
> recommend taking the trip.
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> Greetings,
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> Flying W ranch on Wed. night. The tours will most likely be free, but the
> dinner is $22 a head and includes a western music show after dinner. It’s
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> family. You would not have to attend the Wed. events to attend the 2-day
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> Estes Park, perhaps including a drive up Trail Edge Road (it’s paved) to
> 12, 183 ft. Tuesday would be drive into the mountains via I-70 and then a
> trip over Loveland Pass and then down into the ski towns of Keystone and
> Breckenridge. Then on over Hoosier Pass and into Fairplay and across
> South Park to meet U.S. Rt 24 and on into Colorado Springs. The
> sharp-eyed will be able to see seven of Colorado’s 54 14,000 ft. peaks on
> this drive. Maybe after lunch in Breckenridge a ride on the alpine slide
> down the ski slopes and then some window shopping in town. This about a
> 250 mile drive.
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> So please let us know your thoughts on a 3-day GPSL and your interest in
> the Wednesday tours. We’d be pleased to answer questions about the
> Monday/Tuesday trip if that extension strikes your fancy.
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> 73,
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> Rob Wright
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> _kc0uuo@... <http://kc0uuo@...>_
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> Onwards and Upwards,
> Paul
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8740. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 02:08:49 UTC
From: Michael Willett
Topic: 8723 Message: 8740

It all depends on your point of view. Trail Ridge road might be Trail
Edge Road for some!

I know the road from Idaho Springs to Central City - AKA Virginia
Something road, AKA Central City Parkway (now), was often called OMG
road (Oh My God road!) It was most fun after a snow storm and caused
premature aging to both humans and steering wheels.

--Michael K5NOT

On 10/19/2010 8:19 PM, Mike Manes wrote:
> For those looking it up online, it's Trail RIDGE Road - from Estes Park across
> the continental divide to near the headwaters of the Colorado River at Grand
> Lake, CO.
> 73 de Mike W5VSI
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> On 10/18/2010 07:42, L. Paul Verhage wrote:
>>
>> Please do a three day event. I like the idea of the tour of the USAFA.
>> Workshops sound great. I wonder if we can whip out BalloonSats in a day?
>> I second going to RMNP. Trail Edge Road was spectacular last year, I highly
>> recommend taking the trip.
>> Paul
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>> On Fri, Oct 15, 2010 at 5:28 AM, Rob Wright<kc0uuo@...
>> <mailto:kc0uuo@...>> wrote:
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>> Greetings,
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8741. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 02:23:26 UTC
From: Zack Clobes
Topic: 8723 Message: 8741

I'm all for the three day event. I toured Spark Fun this past summer and really enjoyed that. They have a nice lab that maybe could be utilized for a building project.

I'm planning on staying in Colorado a couple of days after the event, and hope to climb another 14er maybe Monday or Tuesday. If anyone else is interested in joining me on that, contact me off list and we'll check into the viability.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Tue, Oct 19, 2010 at 9:08 PM, Michael Willett <mw@omsrc.com> wrote:

>
> It all depends on your point of view. Trail Ridge road might be Trail
> Edge Road for some!
>
> I know the road from Idaho Springs to Central City - AKA Virginia
> Something road, AKA Central City Parkway (now), was often called OMG
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> --Michael K5NOT
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> > Lake, CO.
> > 73 de Mike W5VSI
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> >> recommend taking the trip.
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> >> On Fri, Oct 15, 2010 at 5:28 AM, Rob Wright<kc0uuo@...

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> Yahoo! Groups Links

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8742. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 03:01:47 UTC
From: Mike Manes
Topic: 8723 Message: 8742

I just offered that clarification for those in the group who may wish to look up the route online.

I've also been over OMG (Virginia Dale Rd?) road, and yeah, not in a Winnebago even in nice wx :=P !

There's a brand new 4-lane road running from I-70 just E of Idaho Springs to Central City - I think it's aka Central City Pkwy. Much more civilized drive!

BTW, OMG road is one of a class of roads called ledge roads. One neat one is the road to the 14,250' summit of Mt. Evans - it's only open in the summer, and is actually paved, despite being just a narrow 2-lane. Real fun encountering an 18-wheel tractor coming the other direction - not!

The GPSL folks may also enjoy driving to the summit of Pike's Peak overlooking CO Springs. It's dirt, but much wider than the Mt. Evans road.

Both peaks are GREAT sites during microwave contests! I earned VUCC in one weekend with my 10 mW 10 GHz Gunnplexer rig and a 19" dish on Evans.

73 de Mike W5VSI

On 10/19/2010 20:08, Michael Willett wrote:
>
> It all depends on your point of view. Trail Ridge road might be Trail Edge
> Road for some!
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> I know the road from Idaho Springs to Central City - AKA Virginia Something
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8743. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 03:28:36 UTC
From: HarryM
Topic: 8723 Message: 8743

If you take the Trail Ridge Rd trip, to get off the beaten path a little you might also consider taking US34 west out of Estes Park for 7.3 miles (Horseshoe Park) (40.404778/-105.624639) and take Fall River Rd. It is 9.8 miles long and ends at US34 at Fall River Pass (40.441044/-105.755369) back on US34. The road is rough in places so I wouldn't recommend it for low clearance vehicles.

73 Harry KC5TRB

....Trail Edge Road was spectacular last year, I highly recommend taking the trip.

8744. I Phone in space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 19:41:47 UTC
From: Mark Garrett
Topic: 8744 Message: 8744

Sorry if this is a re post but just saw this for the first time. Appears the chute was undersized and the tether to the balloon was quite short.

http://mashable.com/2010/10/17/iphone-space-launch-video/

8745. Re: [GPSL] I Phone in space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-20 20:22:04 UTC
From: Michael Willett
Topic: 8744 Message: 8745

Hmmm... Cell phones are not supposed to be alive in the payloads per FCC rules, and are these newbies talking to the FAA at all?

This type of hype is the stuff that will hurt our hobby.

--Michael

On 10/20/2010 2:41 PM, Mark Garrett wrote:
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> Sorry if this is a re post but just saw this for the first time.
> Appears the
> chute was undersized and the tether to the balloon was quite short.
>
> http://mashable.com/2010/10/17/iphone-space-launch-video/
>
>

8746. Re: [Balloon_Sked] Re: [GPSL] I Phone in space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-21 02:48:53 UTC
From: Mike Manes
Topic: 8744 Message: 8746

Guess the new ham ticket exams are still too tough for some ...

On 10/20/2010 14:22, Michael Willett wrote:
>
>
>
> Hmmm... Cell phones are not supposed to be alive in the payloads per FCC
> rules, and are these newbies talking to the FAA at all?
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> --Michael
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8747. Re: [Balloon_Sked] Re: [GPSL] I Phone in space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-21 13:24:12 UTC
From: Joe
Topic: 8744 Message: 8747
Attachments: 1 described; binary payloads are missing from this source WARC

Or with all the press these cell phone flights are having, they may not
even know that Amateur Radio Exists.

One thing that somewhat bugs me about that flight anyway from the first
time I seen the video, is how everyone is making such a big deal about
the Father and Son aspect.

From everything I saw on the video 99% of it was the fathers
excitement. The "Son" was more interested in the video camera shooting
the story footage. And maybe the launch itself.

He seems far too young to really understand whats going on. What maybe 5
years old?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/20/2010 9:48 PM, Mike Manes wrote:
> Guess the new ham ticket exams are still too tough for some ...
>
> On 10/20/2010 14:22, Michael Willett wrote:
>>
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>> Hmmm... Cell phones are not supposed to be alive in the payloads per FCC
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>>

8748. Re: [GPSL] GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-22 01:57:18 UTC
From: Mark Conner
Topic: 8723 Message: 8748

I'll second that, except that the definition of "low clearance" would have to be very low. My wife and I drove it twice in a BMW 540 in the summer of 2002 with no issues at all. It is gravel though, so if there has been a lot of rain it may not be recommended in a car with lower clearance and less aggressive tires.

But it's definitely a scenic trip and worth going up that way and returning via the paved route.

73 de Mark N9XTN

On Tue, Oct 19, 2010 at 22:28, HarryM <hhm_74115@...> wrote:

>
>
> If you take the Trail Ridge Rd trip, to get off the beaten path
> a little you might also consider taking US34 west out of Estes
> Park for 7.3 miles (Horseshoe Park) (40.404778/-105.624639) and
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> 73 Harry KC5TRB
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> ....Trail Edge Road was spectacular last year, I highly recommend taking
> the trip.
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8749. The Register PARIS launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-22 15:55:05 UTC
From: dvpatterson@comcast.net
Topic: 8749 Message: 8749

Looks like the Paper Airplane Released Into Space balloon launch orchestrated by the British tech blog The Register has been pushed back a day... it's been mentioned before on this list, but not for a while, so I thought I'd bring it back into the collective consciousness. Here's the latest story, which contains links to all of the details:

http :// www . theregister .co. uk /2010/10/22/vulture_delay/

8750. Remember 10/15

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-24 03:13:00 UTC
From: Mark Conner
Topic: 8750 Message: 8750
Attachments: 1 described; binary payloads are missing from this source WARC

[image: balloon-boy1.jpg]

8751. Argh - try #2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-24 03:23:36 UTC
From: Mark Conner
Topic: 8751 Message: 8751

Apparently embedded images won't work, so visit this URL instead:

http://news.icanhascheezburger.com/2010/10/15/political-pictures-balloon-boy-tribute/

8752. Re: [GPSL] Argh - try #2

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-24 13:51:36 UTC
From: Joe
Topic: 8751 Message: 8752
Attachments: 1 described; binary payloads are missing from this source WARC

it came through for me, and we missed the anniversary!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/23/2010 10:23 PM, Mark Conner wrote:
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8753. Vulture One spaceplane launch countdown on hold • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 03:59:11 UTC
From: Mike Manes
Topic: 8753 Message: 8753

Talk about FB PR for a newbie launch team!
It's intriguing that these Limeys MIGHT be using the ham bands for
APRS tracking - or not.
73 de Mike W5VSI

http://www.theregister.co.uk/2010/10/22/vulture_delay/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8754. Re: [GPSL] Vulture One spaceplane launch coun tdown on hold • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 15:06:03 UTC
From: Jerry Gable
Topic: 8753 Message: 8754

The Register started this in response to this launch:
http://news.bbc.co.uk/2/hi/uk_news/england/wiltshire/8171619.stm It is a BBC
story about someone that launched a slice of cheese into space. The register's
first story here: http://www.theregister.co.uk/2009/07/29/space_cheese/

Since then they have gotten quite a few sponsors. Big Red Bee has provided at
least one GPS/APRS module for the plane.

_____
From: Mike Manes <mrmanes@...>
To: GPSL Balloon Reflector <GPSL@yahoogroups.com>
Sent: Sun, October 24, 2010 8:59:11 PM
Subject: [GPSL] Vulture One spaceplane launch countdown on hold • The Register

Talk about FB PR for a newbie launch team!
It's intriguing that these Limeys MIGHT be using the ham bands for
APRS tracking - or not.
73 de Mike W5VSI

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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

http://docs.yahoo.com/info/terms/

8755. Red Bull Stratos cancelled

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 15:15:30 UTC
From: dvpatterson@comcast.net
Topic: 8755 Message: 8755

According to this Wired story, Capt. Kittinger will hold the record for a while longer. I'm really disappointed - I was looking forward to watching this flight.

http://www.wired.com/autopia/2010/10/red-bull-cancels-stratos/

-David, KB9QLS

8756. Ballon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 18:15:34 UTC
From: Ken Schultz
Topic: 8756 Message: 8756

Here is a nice article on the balloon launch failure down in Australia a while back. Based on my limited experience and screwups with these little balloons, I would have to agree that while launching a balloon seems easy, its really easy to mess up. Its even easier with these bigger ones.

http://www.space.com/news/nasa-report-scientific-balloon-crash-101022.html

Ken

8757. Re: [GPSL] Ballon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 19:05:12 UTC
From: Joe
Topic: 8756 Message: 8757
Attachments: 1 described; binary payloads are missing from this source WARC

I wish they would have listed what the 25 mistakes were.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 10/25/2010 1:15 PM, Ken Schultz wrote:
> Here is a nice article on the balloon launch failure down in Australia a while back. Based on my limited experience and screwups with these little balloons, I would have to agree that while launching a balloon seems easy, its really easy to mess up. Its even easier with these bigger ones.
>
> http://www.space.com/news/nasa-report-scientific-balloon-crash-101022.html
>
> Ken
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> Yahoo! Groups Links
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8758. Re: [GPSL] Ballon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 19:21:05 UTC
From: Luis Eduardo Pacheco
Topic: 8756 Message: 8758

The report itself describes in a detailed form each...

You can download it from
http://www.nasa.gov/centers/goddard/business/foia/balloon_mishap.html

Cheers
*Best regards
*
-- --
Luis Eduardo Pacheco
StratoCat - (english version: http://stratocat.com.ar/indexe.html)
Historical recopilation project on the use of stratospheric balloons in the
scientific research, the military field and the aerospace activity

8759. Re: [GPSL] Ballon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 20:26:32 UTC
From: Mark Conner
Topic: 8756 Message: 8759

Definitely read the report for the real story, the article is nearly useless as a summary.

The bottom line is that the NASA balloon program didn't have a comprehensive safety program because (a) it'd drive up launch costs too far, and (b) nothing significant has happened yet, so it must not be necessary to have one.

Here's the basic story line. Everything is normal through fill and initial release of balloon. Crane driver takes an 'odd' path trying to get under balloon, introducing unexpected loads on release mechanism, can't release balloon from crane due to these loads. Crane driver gets to airport fence and has to stop with balloon still not released. Can't abort launch there due to spectators in the way outside of fence, so driver directed to back up. This introduces even more load on mechanism, resulting in unexpected full release. Payload swings through fence and into cars.

Unforecasted winds were not a cause of the accident, nor were winds considered out of limits.

73 de Mark N9XTN

On Mon, Oct 25, 2010 at 14:21, Luis Eduardo Pacheco <stratocat.iespana.es@gmail.com> wrote:

>
>
> The report itself describes in a detailed form each...
>
> You can download it from
> http://www.nasa.gov/centers/goddard/business/foia/balloon_mishap.html
>
> Cheers
> *Best regards*
>

8760. Re: [GPSL] Ballon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 20:52:33 UTC
From: Luis Eduardo Pacheco
Topic: 8756 Message: 8760

In my humble opinion a BIG difference on regard this Mishap and several others NASA had before with balloons (even as catastrophic as this one) is the level of widespread and instant coverage the incident received -ergo the bad publicity-.

In the past the agency never published openly the results of the investigation boards ... this time the circunstances aforementioned forced them to do so.

Greetings

2010/10/25 Mark Conner <mconner1@...>

>
>
> Definitely read the report for the real story, the article is nearly
> useless as a summary.
>
> The bottom line is that the NASA balloon program didn't have a
> comprehensive safety program because (a) it'd drive up launch costs too far,
> and (b) nothing significant has happened yet, so it must not be necessary to
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>> Cheers
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8761. Re: [GPSL] Balloon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-25 23:45:40 UTC
From: Mike Manes
Topic: 8756 Message: 8761

Hi,

Well, from the earlier videos, the wind was pretty brisk, and >nowhere< in the NASA report did I see the wind velocity noted; just its direction. And many of us know how spooky a windy launch can be.

Had there been near-calm conditions, even though the "Tiny Tim" launch crane was way out of position, the balloon would not have taken on that rather acute angle from vertical; it would have made its way to a near-overhead position above the crane. So the safety cables would not have been overstressed and the launch could have been terminated well without coming anywhere near the airport boundary.

Note from the earlier video (I assume it was taken at that launch), that the wind was dead calm after fill near sunrise. But there was a 1-hour launch delay called early on, and a further 10-minute delay to clear the airspace, during which time the wind came up.

It's definitely a good read. But beware: it could induce a visceral urge to take up a less exciting hobby, like coin collecting ;=(Sure glad we in ARHAB don't have to deal with those huge "Buick with 4 scientists" payloads!

73 de Mike W5VSI

On 10/25/2010 14:26, Mark Conner wrote:
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> Definitely read the report for the real story, the article is nearly useless
> as a summary.
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> Cheers
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8762. Insurance?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-26 02:07:13 UTC
From: Dan Bowen
Topic: 8762 Message: 8762

Hi All, Does anyone do insurance for launches? If so, who've you gone with, and how much has it been? We're looking.

Thanks,
Dan K2VOL
White Star Balloon

8763. Re: [GPSL] Balloon Launch Mistake

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-26 03:13:23 UTC
From: wb8elk@aol.com
Topic: 8756 Message: 8763

On our first flight of a 19,000 cubic foot zero pressure balloon, it was dead calm at our launchsite....absolutely perfect conditions. It was at that point that our chief rocket scientist remembered that he had left a key component of the experiment back on the bench of his workshop (about a one hour round trip). This was to be a test of our ignitor system for our future Rockoon missions so we deemed it necessary to sit there holding a large fragile balloon crossing our fingers that the calm conditions would hold up for an additional hour.

Mother Nature doesn't miss an opportunity to play with these big balloons for very long and true to form, the winds starting getting pretty dicey as the clock ticked. Then she hit us with all she had....big gusts (10 mph +) started to pommel the balloon as we frantically scurried around the balloon trying to keep it from hitting the rough former runway. It bounced off our heads as we made futile attempts at trying to keep our bodies between the balloon and the jagged asphalt. Our rocket guy arrived to see the balloon smash into the runway during a 15 mph gust that ripped a nice big 2 foot gash about halfway up the envelope.

Then by some miracle, seeing that her job was done, Mother Nature went off to play with some other fragile device and it became suddenly calm again. I tried to patch the gash with strips of clear packing tape on the inside and out....topped the balloon off with some more helium and we let it go with a cheer. Fifteen seconds later, the APRS tracking payload's antenna caught on a loudspeaker pole used by the county fair....fortunately it wasn't a live power line but looked like one. It sat there for 10 minutes (I later called this our "post-launch" testing phase). A 30-foot telescoping pole and hook did the job and finally set our fateful balloon on it's journey.

However, the packing tape fix let loose at about 30,000 feet and it came back down to earth in western Georgia. A woman was doing her dishes and watched the whole thing come down in her Kudzu patch behind her house. She immediately called the police, TV and radio stations excitedly proclaiming that a UFO had landed in her back yard. Five minutes later our chase crew arrived (many of them look like space aliens). It took quite some time before they could convince her to let them do the recovery.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Mark Conner <mconner1@...>
Sent: Mon, Oct 25, 2010 6:45 pm
Subject: Re: [GPSL] Balloon Launch Mistake

Hi,

Well, from the earlier videos, the wind was pretty brisk, and >nowhere< in the
NASA report did I see the wind velocity noted; just its direction. And many
of us know how spooky a windy launch can be.

Had there been near-calm conditions, even though the "Tiny Tim" launch crane was way out of position, the balloon would not have taken on that rather acute angle from vertical; it would have made its way to a near-overhead position above the crane. So the safety cables would not have been overstressed and the launch could have been terminated well without coming anywhere near the airport boundary.

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It's definitely a good read. But beware: it could induce a visceral urge to take up a less exciting hobby, like coin collecting ;=(Sure glad we in ARHAB don't have to deal with those huge "Buick with 4 scientists" payloads!

73 de Mike W5VSI

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> Cheers
> /Best regards/
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8764. BASE 54 delayed one week

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-26 15:29:39 UTC
From: BASE
Topic: 8764 Message: 8764

Dear friends,

For a variety of logistical and meteorological reasons, BASE 54 will be delayed one week. The new scheduled launch time will be 1700 UTC (1 pm EDT) on Thursday, 4 November 2010.

Thanks for your support,
Howard, KC9QBN

8765. PARIS launch tomorrow come hell or high water • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-28 04:28:41 UTC
From: Mike Manes
Topic: 8765 Message: 8765

http://www.theregister.co.uk/2010/10/27/paris_launch_update/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8766. Re: GPSL 2011

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-29 15:05:47 UTC
From: dEB
Topic: 8723 Message: 8766

Hi, Rob - Just to let you know, Keith and I talked it over and we really like the ideas that you have for several days of conference. We have some family that lives in the area so we will definitely be planning a complete trip around the event. We like the idea of the Wed Tours also. So please keep us updated on the plans as you move forward.

Thank you!

Deb Kaiser & Keith Kaiser
Near Space Ventures
KC, MO

--- In GPSL@yahoogroups.com, Rob Wright <kc0uuo@...> wrote:
>
> Greetings,
>
> Edge of Space Sciences is pleased to welcome the Great Plains Super Launch
> community to Colorado for the 2011 conference. The Pikes Peak Community
> College has generously offered meeting space at their Rampart Range Campus
> just North of Colorado Springs. The launch date has been scheduled for July
> 30, 2011.
>
> EOSS would like to gauge your interest in a 2-day conference followed by the
> launch. Our proposed schedule features technical sessions and workshops on
> Thursday and Friday. Weâ□□re still forming our plans on the workshops, but
> they will be hands-on sessions. EOSS welcomes your thoughts on whether you
> would be interested in such a 3-day event. The planning committee eagerly
> awaits your reply no later than October 29th, 2010 please.
>
> In addition, we are also soliciting your thoughts on extending the event one
> more day to include tours of the United States Air Force Academy and the
> U.S. Olympic Training Center. These tours would be on Wed. morning and
> afternoon. They would be followed by a chuck wagon dinner at the Flying W
> ranch on Wed. night. The tours will most likely be free, but the dinner is
> $22 a head and includes a western music show after dinner. Itâ□□s a most
> popular attraction in Colorado Springs. Great for the whole family. You
> would not have to attend the Wed. events to attend the 2-day tech session
> and then the launch on Sat.
>
> Many may also be interested in driving out to Colorado on the Saturday and
> Sunday before GPSL and seeing a bit more of Colorado. A nice two-day
> extension would include Sunday night in Estes Park right on the edge of
> Rocky Mountain National Park. Thereâ□□s much too do in both the RMNP and in
> Estes Park, perhaps including a drive up Trail Edge Road (itâ□□s paved) to 12,
> 183 ft. Tuesday would be drive into the mountains via I-70 and then a trip
> over Loveland Pass and then down into the ski towns of Keystone and

> Breckenridge. Then on over Hoosier Pass and into Fairplay and across South
> Park to meet U.S. Rt 24 and on into Colorado Springs. The sharp-eyed will
> be able to see seven of Coloradoâ□□s 54 14,000 ft. peaks on this drive. Maybe
> after lunch in Breckenridge a ride on the alpine slide down the ski slopes
> and then some window shopping in town. This about a 250 mile drive.
>
> So please let us know your thoughts on a 3-day GPSL and your interest in the
> Wednesday tours. Weâ□□d be pleased to answer questions about the
> Monday/Tuesday trip if that extension strikes your fancy.
>
>
>
> 73,
>
> Rob Wright
> President
> Edge of Space Sciences
> www.eoss.org
> kc0uuo@...
>

8767. ARBONET Flying tomorrow (Saturday Oct 30th) at 0900 CST

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 01:11:53 UTC
From: Michael Willett
Topic: 8767 Message: 8767

ARBONET is flying a 600gr balloon out of Hillsboro, TX tomorrow at 0900 CST.

The balloon will be flown to natural burst.

Aboard will be a Simplex Repeater, APRS, CW beacon and Voice Beacon.

The Voice Beacon will be necked into the balloon again, taking measurements of envelope pressure, internal temperature and external temperature, reporting information as a synthesized voice.

The voice beacon will be operating in the 70 CM band.

The Simplex repeater is a 30 second record / 30 second playback with courtesy timer tone unit operating in the 2M band.

The CW beacon is also in the 2M band.

We are flying APRS, a MicroTrak-300 as K5ARB-11 beaconing every 60 seconds and likely a second MicroTrak-300 APRS unit reporting as K5ARB-10 at 301 second intervals on 144.390MHz

We will be flying an inverted parachute below the payloads for return after burst.

You can follow field updates on twitter, http://www.twitter.com/ARBONET

Or follow us on the APRS system. See http://WWW.ARBONET.NET for fast facts details on frequencies and location.

--Michael
K5NOT

8768. LOST Vulture One PARIS spaceplane FOU ND!!! • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 03:18:26 UTC
From: Mike Manes
Topic: 8768 Message: 8768

http://www.theregister.co.uk/2010/10/28/vulture_one_recovered/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8769. Streaming video for todays balloons from UA Huntsville AL will start at 1400 UTC 9:00 CDT

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 12:52:28 UTC
From: wb8elk@aol.com
Topic: 8769 Message: 8769

Streaming video will start of the UAH Balloon sat launches at 1400 UTC 9:00 am CDT.

www.batc.tv
Select Members Streams
Select WB8ELK and hit View Stream

- Bill WB8ELK

=

8770. RE: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 20:35:31 UTC
From: Steve D
Topic: 8768 Message: 8770

Thanks for keeping everyone up to date.
We had issues with tracking the plane sadly. But it did release at height and we did get it back, surprisingly with little damage.
We got forced into doing it on Thursday as I was flying back to the UK on Friday.

Not sure how I got back with no problems considering the kit I was carrying, and the Terrorist activity, on the day.

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 30 October 2010 04:18
To: GPSL Balloon Reflector
Subject: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

http://www.theregister.co.uk/2010/10/28/vulture_one_recovered/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

8771. ARBONET Payloads Recovered after a great flight. (Saturday Oct 30th) at 0900 CST

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 20:52:08 UTC
From: Michael Willett
Topic: 8767 Message: 8771

The ARBONET flight went off without too much trouble this morning.

Last night the voice beacon started to act up, likely due to battery limitations. So the voice beacon did not fly this trip.

However, all other facilities seemed to work fine.

The balloon was loaded a little hot for a quicker ascent and a smaller 3' rather than 5' parachute was used to shorten descent. This resulted in a landing zone short of the simulated target.

The payloads landed in a conservation area and a local person already loaded the payloads into their pickup prior to our arrival. A quick exchange by David, Tommy and Doug with the local person and the payloads were in our hands.

The K5ARB-10 was set for 301 second transmissions and appeared to work 100%.

The K5ARB-11 was set for 60 second transmissions and occasionally did not report altitude, but was nearly 100%.

The simplex repeater carried some traffic and the CW beacon was heard throughout the flight, both seemed to work great!

The video camera on board with the APRS beacon K5ARB-10 captured a rough ride through the entire flight past 70K ft, but also captured an excellent view of the balloon shards against the black of space, a spectacular frame of video.

It was a small team of 4 of us chasing today. David and Tommy brought their exceptional experience from the NTXBP, Doug from McKinney and myself from Granbury. The equipment worked well in almost all respects, the chase was quite fun and the recovery uneventful - like we all wish most of our flights could be.

You can go to twitter at http://www.twitter.com/ARBONET for a play-by-play report of Doug's view on today's flight.

--Michael
K5NOT

8772. Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 21:19:17 UTC
From: Mike Manes
Topic: 8768 Message: 8772

Nice job, Steve! And great trick effecting a recovery absent in-flight
APRS. Just like the salad days of ARHAB, pre-GPS.

I was wondering if it were you yourself on the chase.
All I saw on aprs.fi during descent was your mobile. I guess traveling
thru the EU nowadays doesn't require a passport any more.

New FAA rules in the US obviate dropping a glider from a balloon, although
it appears that a steerable, modified conventional parachute with just one
control axis is exempt. Just haven't figured out how to make one like the
US Army's MC1-1C yet.

Did you have any problems bringing the Vulture back home as checked baggage?

73 de Mike W5VSI
CTO EOSS, Colorado

On 10/30/2010 14:35, Steve D wrote:
> Thanks for keeping everyone up to date.
> We had issues with tracking the plane sadly. But it did release at height
> and we did get it back, surprisingly with little damage.
> We got forced into doing it on Thursday as I was flying back to the UK on
> Friday.
>
> Not sure how I got back with no problems considering the kit I was carrying,
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> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
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> Sent: 30 October 2010 04:18
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
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8773. What does the ICAO 230N (50lb) impact force mean?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 21:39:23 UTC
From: steve@btinternet.com
Topic: 8773 Message: 8773

The ICAO document on unmanned free balloons says:-

"Uses a rope or other device for suspension of the payload that requires an impact force of 230 N or more to separate the suspended payload from the balloon."

Can anyone explain exactly what this means? - is it simply about rope/cord with a breaking strain of greater than 50lb (230N) - or does it mean something else? - and if so what test situation are they describing.

Steve

8774. RE: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 21:52:46 UTC
From: Steve D
Topic: 8768 Message: 8774

I had APRS on the balloon as well G6UIM-11. The plane I ended up direction finding, until I got a good enough signal to decode the APRS data. We were very lucky where everything landed. And the payload came down with pretty much all of the 1.5kg balloon attached. I was a bit worried about the 60mph drop after balloon burst.
Sadly got very little usable data from the plane, but keep an eye on the register for video of the plane release.

I was on the chase as G6UIM-9 that was via a mobile dongle which was a bit hit and miss connection wise.

Had to take my passport and if in Spain the expect you to have id on you. Had no problems taking all my kit on the plane.

The Spanish authorities were very ok with what we were doing, we were in the middle of nowhere and had no problem with them.
The locals thought it was all fantastic.

Steve
G6UIM

-----Original Message-----
From: Mike Manes [mailto:mrmanes@...]
Sent: 30 October 2010 22:19
To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Nice job, Steve! And great trick effecting a recovery absent in-flight APRS. Just like the salad days of ARHAB, pre-GPS.

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8775. Re: [GPSL] What does the ICAO 230N (50lb) impact force mean?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 22:31:10 UTC
From: Mike Manes
Topic: 8773 Message: 8775

Hi Steve,

As with FAR-101, I've never found a definition or test spec for "impact force". But it's NOT tensile strength, as so many fellow ARHABer have learned the hard way. The intent of the vague requirement is to ensure that a mid-air between the balloon lift line and an aircraft doesn't leave the line intact. EOSS uses 240 lb tensile woven nylon for its exempt flights, and 500 lb line for it's "heavies". We're quite confident that the 240 lb line conforms to the intent of the rule, since it broke at a knot just from the hefty tug of one of our trackers trying to pull the payload line free from a tree.

BTW, use nylon rather than Dacron; the latter has no "stretch", and thus risks being (as has) broken during PBC, where flailing payloads are abruptly decelerated when they get to the end of the line. Woven nylon will stretch like 150% before reaching its tensile limit.

On 10/30/2010 15:39, steve@... wrote:
> The ICAO document on unmanned free balloons says:-
>
> "Uses a rope or other device for suspension of the payload that requires an impact force of 230 N or more to separate the suspended payload from the balloon."
>
> Can anyone explain exactly what this means? - is it simply about rope/cord with a breaking strain of greater than 50lb (230N) - or does it mean something else? - and if so what test situation are they describing.
>
> Steve

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8776. Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 22:43:16 UTC
From: Mike Manes
Topic: 8768 Message: 8776

Thanks for details, Steve. You're not the first to lose GPS / APRS
in flight, and that's why we always fly a redundant DF beacon. It's
possible the your beacon failed a the -60 to -80C air at the tropopause.
Did you run a cold soak test before the flight?

That thin air does require a LOT of true airspeed in order to get
the indicated airspeed (dynamic pressure) to make the aerodynamics
behave as at sea level. The manned high altitude aircraft require
a gentle touch on the stick, since there's only about a 5 kt margin
between a stall and airframe overstress way up there.

I do subscribe to the daily El Reg list, but if I miss your post, could
you pass a link on to this group?

Again, FB job, Steve!

73 de Mike W5VSI

On 10/30/2010 15:52, Steve D wrote:
> I had APRS on the balloon as well G6UIM-11. The plane I ended up direction
> finding, until I got a good enough signal to decode the APRS data. We were
> very lucky where everything landed. And the payload came down with pretty
> much all of the 1.5kg balloon attached. I was a bit worried about the 60mph
> drop after balloon burst.
> Sadly got very little usable data from the plane, but keep an eye on the
> register for video of the plane release.
>
> I was on the chase as G6UIM-9 that was via a mobile dongle which was a bit
> hit and miss connection wise.
>
> Had to take my passport and if in Spain the expect you to have id on you.
> Had no problems taking all my kit on the plane.
>
> The Spanish authorities were very ok with what we were doing, we were in the
> middle of nowhere and had no problem with them.
> The locals thought it was all fantastic.
>
> Steve
> G6UIM
>
> -----Original Message-----
> From: Mike Manes [mailto:mrmanes@...]
> Sent: 30 October 2010 22:19
> To: GPSL@yahoogroups.com
> Cc: Steve D

> Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The
> Register
>
> Nice job, Steve! And great trick effecting a recovery absent in-flight
> APRS. Just like the salad days of ARHAB, pre-GPS.
>
> I was wondering if it were you yourself on the chase.
> All I saw on aprs.fi during descent was your mobile. I guess traveling
> thru the EU nowadays doesn't require a passport any more.
>
> New FAA rules in the US obviate dropping a glider from a balloon, although
> it appears that a steerable, modified conventional parachute with just one
> control axis is exempt. Just haven't figured out how to make one like the
> US Army's MC1-1C yet.
>
> Did you have any problems bringing the Vulture back home as checked baggage?
>
> 73 de Mike W5VSI
> CTO EOSS, Colorado
>
> On 10/30/2010 14:35, Steve D wrote:
>> Thanks for keeping everyone up to date.
>> We had issues with tracking the plane sadly. But it did release at height
>> and we did get it back, surprisingly with little damage.
>> We got forced into doing it on Thursday as I was flying back to the UK on
>> Friday.
>>
>> Not sure how I got back with no problems considering the kit I was
> carrying,
>> and the Terrorist activity, on the day.
>>
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>> -----Original Message-----
>> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>> Manes
>> Sent: 30 October 2010 04:18
>> To: GPSL Balloon Reflector
>> Subject: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register
>>
>> http://www.theregister.co.uk/2010/10/28/vulture_one_recovered/
>

--
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8777. Sundays flight prediction?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 23:10:05 UTC
From: Mike Bogard
Topic: 8777 Message: 8777

Paul I will probably help chase and recover for you Sunday as it may go over my area. Let me know where the predicted landing site will be please. See you Sunday Mike KDØFW

8778. RE: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-10-30 23:42:47 UTC
From: Steve D
Topic: 8768 Message: 8778

The main payload was fine, and it had a redundant beacon not that it was required. The main problem was the camera payload blocked the plane's gps, the plane got a lock not much before landing. Getting the plane back was the thing we most wanted to do

But on the whole I think a good launch.

I had to fight off a lot of locals to get to see the laptop tracking, one pulled a sickie to help us out.

It would have been nice to track the planes flight, but we have I think managed to raise awareness of amateur balloons and amateur radio.

My first one but hooked now

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 30 October 2010 23:43
To: Steve D
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Thanks for details, Steve. You're not the first to lose GPS / APRS in flight, and that's why we always fly a redundant DF beacon. It's possible the your beacon failed a the -60 to -80C air at the tropopause. Did you run a cold soak test before the flight?

That thin air does require a LOT of true airspeed in order to get the indicated airspeed (dynamic pressure) to make the aerodynamics behave as at sea level. The manned high altitude aircraft require a gentle touch on the stick, since there's only about a 5 kt margin between a stall and airframe overstress way up there.

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> drop after balloon burst.
> Sadly got very little usable data from the plane, but keep an eye on the
> register for video of the plane release.
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> hit and miss connection wise.
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> Had to take my passport and if in Spain the expect you to have id on you.
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> middle of nowhere and had no problem with them.
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> From: Mike Manes [mailto:mrmanes@... <mailto:mrmanes%40gmail.com>]
> Sent: 30 October 2010 22:19
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> Cc: Steve D
> Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The
> Register
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> Nice job, Steve! And great trick effecting a recovery absent in-flight
> APRS. Just like the salad days of ARHAB, pre-GPS.
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> I was wondering if it were you yourself on the chase.
> All I saw on aprs.fi during descent was your mobile. I guess traveling
> thru the EU nowadays doesn't require a passport any more.
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> New FAA rules in the US obviate dropping a glider from a balloon, although
> it appears that a steerable, modified conventional parachute with just one
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Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
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8779. Zigbee freq for least 2m / GPS interference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 00:38:02 UTC
From: Dan Bowen
Topic: 8779 Message: 8779

Hi All,
We're looking at Zigbee to talk to temp sensors in our ZP balloons this year. I've seen lots of zigbee talk on this list, but often the frequency used isn't mentioned. I've read a lot of the past posts regarding it, but I was wondering if anyone could just comment on your experiences with Zigbee de-sensing the GPS receiver. I.e. which freq of zigbee tx created the problem, and how far was it from the GPS and 2m

Thanks,
Dan

Sent from my iPhone 4

8780. Re: [GPSL] Sundays flight prediction?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 00:38:48 UTC
From: L. Paul Verhage
Topic: 8777 Message: 8780

I'm sorry, I didn't get this email until this afternoon. I haven't downloaded the flight data yet, but we recovered in a tree. It three hours to get it down.

Paul

On Sat, Oct 30, 2010 at 6:10 PM, Mike Bogard <kd0fw@...t> wrote:

>
>
> Paul I will probably help chase and recover for you Sunday as it may go
> over my area. Let me know where the predicted landing site will be please.
> See you Sunday Mike KDØFW
>
>
>

--
Onwards and Upwards,
Paul

8781. Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 00:52:10 UTC
From: L. Paul Verhage
Topic: 8781 Message: 8781

My latest flight took three hours to remove from trees. What is everyone carrying for tree removal?

--
Onwards and Upwards,
Paul

8782. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 01:05:55 UTC
From: Wayne Helms
Topic: 8781 Message: 8782

I guess this will be my first post here as I do have a interest in this but kinda of hard living on a single income to pursue your interest.

But here are my thoughts on this question since i have one of these hot sticks .

http://burlingtonsafety.thomasnet.com/item/hot-sticks-tools/hot-sticks/4225?

<http://burlingtonsafety.thomasnet.com/item/hot-sticks-tools/hot-sticks/4225?>there are all kinda of attachments for these from hooks to saw blades .....

73's
kc5wxc

On Sun, Oct 31, 2010 at 7:52 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> My latest flight took three hours to remove from trees. What is everyone
> carrying for tree removal?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8783. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 01:36:56 UTC
From: Mike Bogard
Topic: 8781 Message: 8783

When I go out Paul I have a aluminum 2 piece pool cleaning tube that extends from about 11 for to 21 foot and also what they call lay up fiberglass sticks that the electric company use in 6 foot tubes that go together for 30 feet. And don't forget Bill Brown's WB8ELK favorite tool Duct Tape. Both have hooks on the end made out of #6 solid wire and they will snag strings real good. I have also heard of some using a potato spud gun with string attached. Good luck Mike

8784. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 14:35:13 UTC
From: BASE
Topic: 8781 Message: 8784

Paul,
Here's what goes with me on every tracking and recovery:
1. A 40 foot extended Wonder Pole (http://www.wonderpole.com/wp640_630.html) with two special ends. One is a hook made from 3/8 inch threaded rod. The second is an old pruning saw blade.
2. The EZHang system (http://ezhang.com/index.php?_a=viewCat&catId=1) (a Hyperdog Sling Shot, Zebco 33 reel, one ounce lead shots, and tennis balls, 250 feet of 300 pound test line).
3. A rope saw (mine is a Sears model that is no longer available, but here is a similar product http://www.treehelp.com/itemdesc.asp?ic=GM-CS-48)
4. Corona Clipper Razor Tooth Pruning Saw
5. An assortment of extra ropes (approximately 200 feet) for extending the rope saw and/or pulling on limbs/payload strings with a stronger rope.
I do have a chain saw and axe that I have brought to recovery sites on the return trip, if chain saw is a viable option. On a couple of occasions, I have hired a tree climber to recover the flight system. In my experience, three hours to get out of a significant tree is not too bad. My son and I spent seven hours on Saturday (after three hours on the flight day) working on retrieving the remaining radio and parachute from BASE 53. Still need to make one last return trip (ran out of daylight) to finish the retrieval.
Howard, KC9QBNBASE-DePauw

--- On Sun, 10/31/10, L. Paul Verhage <nearsys@gmail.com> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Trees
To: gpsl@yahoogroups.com
Date: Sunday, October 31, 2010, 8:52 PM

My latest flight took three hours to remove from trees. What is everyone carrying for tree removal?

--
Onwards and Upwards,
Paul

8785. Re: [GPSL] Zigbee freq for least 2m / GPS interference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 15:09:29 UTC
From: BASE
Topic: 8779 Message: 8785

Dan,
We have used MaxStream (now Digi??) XBee Pro operating at 2.4 GHz with no problem for any of our radios (typically some version of Byonics MicroTrak) or GPS (Garmin 18). In some cases, all three devices are in a single styrofoam box.
We also have flown a configuration that has the XBee Pro, Garmin 18 and a FreeWave 900 MHz spread spectrum unit in the same box.
I have never experienced any problems with interference or de-sensing.
Howard, KC9QBNBASE-DePauw

--- On Sun, 10/31/10, Dan Bowen <dbowen1@...> wrote:

From: Dan Bowen <dbowen1@...>
Subject: [GPSL] Zigbee freq for least 2m / GPS interference
To: "Gpsl" <GPSL@yahoogroups.com>
Date: Sunday, October 31, 2010, 8:38 PM

Hi All,
    We're looking at Zigbee to talk to temp sensors in our ZP balloons this year. I've seen lots of zigbee talk on this list, but often the frequency used isn't mentioned. I've read a lot of the past posts regarding it, but I was wondering if anyone could just comment on your experiences with Zigbee de-sensing the GPS receiver. I.e. which freq of zigbee tx created the problem, and how far was it from the GPS and 2m

Thanks,Dan

Sent from my iPhone 4

8786. RE: [GPSL] Zigbee freq for least 2m / GPS interference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 15:56:06 UTC
From: Meer, Stephen
Topic: 8779 Message: 8786

Dan,

I echo Howard’s experience. I have flown both high and low power level Digi ZigBee 2 GHz modules that were mounted within 1” of Garmin GPS-15 and uBlox GPS units (and within 3” of their antennas) without difficulty for over 5 flights. In all cases I used ZigBee units with integral antennas, both the patch and wire version. Based on bench tests and field use I have also not seen any indication of 2M receive sensitivity loss in the presence of 2 GHz ZigBee either.

I utilize pretty standard foam core compartmented enclosures. I do however place a mu-metal foil shield between the compartment housing the GPS antenna on the top of the payload and the lower compartments housing the rest of the gear. No fancy feed through for the GPS coax is used. I got into this habit from my 433 MHz balloon-bus days where I did have issue with GPS receiver interference which was ultimately traced to the 433 MHz getting into the GPS antenna internal preamp.

In the past I have had to resolve interesting 2M birdies generated from my serial data lines within the payloads so I would suggest checking for those carefully.

/s/Stephen, K0SCC
EOSS

: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Dan Bowen
Sent: Sunday, October 31, 2010 6:38 PM
To: Gpsl
Subject: [GPSL] Zigbee freq for least 2m / GPS interference

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Thanks,
Dan

Sent from my iPhone 4

8787. Local coverage of Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 16:16:01 UTC
From: L. Paul Verhage
Topic: 8787 Message: 8787

Perhaps it's a bit easier in a college town....

We were able to get the local newspaper out to our latest launch.

http://www2.ljworld.com/news/2010/nov/01/weather-balloon-carries-research-project-lofty-hei/
This was launch 84 in 14 years. That averages out to one every 2 months.
Okay, now how many more launches would it take me to check up to Bill or
EOSS?
;)

--
Onwards and Upwards,
Paul

8788. RE: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 16:26:22 UTC
From: Steve D
Topic: 8768 Message: 8788

The video has been release, we even caught the sound of the balloon burst

http://www.theregister.co.uk/2010/11/01/paris_climax/

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 30 October 2010 23:43
To: Steve D
Cc: GPSL@yahoogroups.com
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> Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The
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Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
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8789. PARIS nursing mother of all hangovers • The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 17:53:20 UTC
From: Mike Manes
Topic: 8789 Message: 8789

How 'bout that launch site! I kind of prefer a place with a bit
more leeward protection, but that launch looked pretty calm.
73 de Mike W5VSI

http://www.theregister.co.uk/2010/10/29/paris_celebrates/
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A. Einstein

8790. RE: [GPSL] PARIS nursing mother of all hangovers . The R egister

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 18:23:13 UTC
From: Steve D
Topic: 8789 Message: 8790

The launch site was 1,909 metres, and luckily very calm on the day

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 01 November 2010 17:53
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS nursing mother of all hangovers . The Register

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A. Einstein

Yahoo! Groups Links

8791. Re: [GPSL] Zigbee freq for least 2m / GPS interference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 19:29:46 UTC
From: Dan Bowen
Topic: 8779 Message: 8791

Thanks guys, that's great information!!

Thanks,
Dan

On Nov 1, 2010, at 11:56 AM, Meer, Stephen wrote:

>
> Dan,
>
>
>
> I echo Howard’s experience. I have flown both high and low power level Digi ZigBee 2 GHz modules that were mounted within 1” of Garmin GPS-15 and uBlox GPS units (and within 3” of their antennas) without difficulty for over 5 flights. In all cases I used ZigBee units with integral antennas, both the patch and wire version. Based on bench tests and field use I have also not seen any indication of 2M receive sensitivity loss in the presence of 2 GHz ZigBee either.
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> Sent: Sunday, October 31, 2010 6:38 PM
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>
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>
> Hi All,
> We're looking at Zigbee to talk to temp sensors in our ZP balloons this year. I've seen lots of zigbee talk on this list, but often the frequency used isn't mentioned. I've read a lot of the past posts regarding it, but I was wondering if anyone could just comment on your experiences with Zigbee de-sensing the GPS receiver. I.e. which freq of zigbee tx created the problem, and how far was it from the GPS and 2m
>
> Thanks,
>
> Dan
>
>
>
>
>
> Sent from my iPhone 4
>
>
>
>

8792. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 20:03:35 UTC
From: Tim
Topic: 8781 Message: 8792

I have a question for the list...

How long is the distance from your balloon to your payload? I know everyone will have a different answer but in my mind longer is better. If your parachute gets caught in a 50' tree and the distance is between the chute and payload is 50' then at worst you loose the chute? I also think that the payload is more stable the farther away it is from the balloon, on the ascent that is. I do not have any facts to back this up so I could be way off base but it seems to be true in the scaled down tests that Brenden and I have done.

Thanks for your input,
Tim
KJ6HSX

_____
From: BASE <basedepauw@yahoo.com>
To: GPSL@yahoogroups.com
Sent: Mon, November 1, 2010 7:35:13 AM
Subject: Re: [GPSL] Trees

Paul,

Here's what goes with me on every tracking and recovery:

1. A 40 foot extended Wonder Pole (http://www.wonderpole.com/wp640_630.html) with two special ends. One is a hook made from 3/8 inch threaded rod. The second is an old pruning saw blade.

2. The EZHang system (http://ezhang.com/index.php?_a=viewCat&catId=1) (a Hyperdog Sling Shot, Zebco 33 reel, one ounce lead shots, and tennis balls, 250 feet of 300 pound test line).

3. A rope saw (mine is a Sears model that is no longer available, but here is a similar product http://www.treehelp.com/itemdesc.asp?ic=GM-CS-48)

4. Corona Clipper Razor Tooth Pruning Saw

5. An assortment of extra ropes (approximately 200 feet) for extending the rope saw and/or pulling on limbs/payload strings with a stronger rope.

I do have a chain saw and axe that I have brought to recovery sites on the return trip, if chain saw is a viable option. On a couple of occasions, I have hired a tree climber to recover the flight system.

In my experience, three hours to get out of a significant tree is not too bad. My son and I spent seven hours on Saturday (after three hours on the flight day) working on retrieving the remaining radio and parachute from BASE 53. Still need to make one last return trip (ran out of daylight) to finish the

retrieval.

Howard, KC9QBN
BASE-DePauw

--- On Sun, 10/31/10, L. Paul Verhage <nearsys@...> wrote:

>From: L. Paul Verhage <nearsys@...>
>Subject: [GPSL] Trees
>To: gpsl@yahoogroups.com
>Date: Sunday, October 31, 2010, 8:52 PM
>
>
>
>My latest flight took three hours to remove from trees. What is everyone
>carrying for tree removal?
>
>--
>Onwards and Upwards,
>Paul
>

8793. WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 21:37:40 UTC
From: Joe
Topic: 8793 Message: 8793
Attachments: 1 described; binary payloads are missing from this source WARC

Did bill Change his E Mail?

His AOL address is bouncing.

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8794. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 21:54:34 UTC
From: Michael Willett
Topic: 8781 Message: 8794

That is quite an arsenal of tools.

Is there a future with "Howard's High Altitude Balloons and Dendrology Services"???

--Michael
K5NOT

On 11/1/2010 9:35 AM, BASE wrote:
>
> Paul,
>
> Here's what goes with me on every tracking and recovery:
>
> 1. A 40 foot extended Wonder Pole
> (http://www.wonderpole.com/wp640_630.html) with two special ends. One
> is a hook made from 3/8 inch threaded rod. The second is an old
> pruning saw blade.
>
> 2. The EZHang system (http://ezhang.com/index.php?_a=viewCat&catId=1
> <http://ezhang.com/index.php?_a=viewCat&catId=1>) (a Hyperdog Sling
> Shot, Zebco 33 reel, one ounce lead shots, and tennis balls, 250 feet
> of 300 pound test line).
>
> 3. A rope saw (mine is a Sears model that is no longer available, but
> here is a similar product
> http://www.treehelp.com/itemdesc.asp?ic=GM-CS-48)< /div>
>
> 4. Corona Clipper Razor Tooth Pruning Saw
>
> 5. An assortment of extra ropes (approximately 200 feet) for extending
> the rope saw and/or pulling on limbs/payload strings with a stronger rope.
>
> I do have a chain saw and axe that I have brought to recovery sites on
> the return trip, if chain saw is a viable option. On a couple of
> occasions, I have hired a tree climber to recover the flight system.
> In my experience, three hours to get out of a significant tree is not
> too bad. My son and I spent seven hours on Saturday (after three
> hours on the flight day) working on retrieving the remaining radio and
> parachute from BASE 53. Still need to make one last return trip (ran
> out of daylight) to finish the retrieval.
>
> Howard, KC9QBN
> BASE-DePauw
>
>

>
> --- On *Sun, 10/31/10, L. Paul Verhage /<nearsys@...>/* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] Trees
> To: gpsl@yahoogroups.com
> Date: Sunday, October 31, 2010, 8:52 PM
>
> My latest flight took three hours to remove from trees. What is
> everyone carrying for tree removal?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8795. Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 22:35:09 UTC
From: Mike Manes
Topic: 8768 Message: 8795

Nice video documentation, Steve!
And now you have some idea of what we mean by Post-Burst Chaos (PBC).
And excellent on recovering both the PARIS bird and the main payload.
You and your team deserved to O.D. on the bubbly!
73 de Mike W5VSI

On 11/1/2010 09:26, Steve D wrote:
>
>
> The video has been release, we even caught the sound of the balloon burst
>
> http://www.theregister.co.uk/2010/11/01/paris_climax/
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Mike
> Manes
> *Sent:* 30 October 2010 23:43
> *To:* Steve D
> *Cc:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register
>
> Thanks for details, Steve. You're not the first to lose GPS / APRS
> in flight, and that's why we always fly a redundant DF beacon. It's
> possible the your beacon failed a the -60 to -80C air at the tropopause.
> Did you run a cold soak test before the flight?
>
> That thin air does require a LOT of true airspeed in order to get
> the indicated airspeed (dynamic pressure) to make the aerodynamics
> behave as at sea level. The manned high altitude aircraft require
> a gentle touch on the stick, since there's only about a 5 kt margin
> between a stall and airframe overstress way up there.
>
> I do subscribe to the daily El Reg list, but if I miss your post, could
> you pass a link on to this group?
>
> Again, FB job, Steve!
>
> 73 de Mike W5VSI
>

> On 10/30/2010 15:52, Steve D wrote:
>> I had APRS on the balloon as well G6UIM-11. The plane I ended up direction
>> finding, until I got a good enough signal to decode the APRS data. We were
>> very lucky where everything landed. And the payload came down with pretty
>> much all of the 1.5kg balloon attached. I was a bit worried about the 60mph
>> drop after balloon burst.
>> Sadly got very little usable data from the plane, but keep an eye on the
>> register for video of the plane release.
>>
>> I was on the chase as G6UIM-9 that was via a mobile dongle which was a bit
>> hit and miss connection wise.
>>
>> Had to take my passport and if in Spain the expect you to have id on you.
>> Had no problems taking all my kit on the plane.
>>
>> The Spanish authorities were very ok with what we were doing, we were in the
>> middle of nowhere and had no problem with them.
>> The locals thought it was all fantastic.
>>
>> Steve
>> G6UIM
>>
>> -----Original Message-----
>> From: Mike Manes [mailto:mrmanes@... <mailto:mrmanes%40gmail.com>]
>> Sent: 30 October 2010 22:19
>> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>> Cc: Steve D
>> Subject: Re: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The
>> Register
>>
>> Nice job, Steve! And great trick effecting a recovery absent in-flight
>> APRS. Just like the salad days of ARHAB, pre-GPS.
>>
>> I was wondering if it were you yourself on the chase.
>> All I saw on aprs.fi during descent was your mobile. I guess traveling
>> thru the EU nowadays doesn't require a passport any more.
>>
>> New FAA rules in the US obviate dropping a glider from a balloon, although
>> it appears that a steerable, modified conventional parachute with just one
>> control axis is exempt. Just haven't figured out how to make one like the
>> US Army's MC1-1C yet.
>>
>> Did you have any problems bringing the Vulture back home as checked baggage?
>>
>> 73 de Mike W5VSI
>> CTO EOSS, Colorado
>>
>> On 10/30/2010 14:35, Steve D wrote:
>> > Thanks for keeping everyone up to date.
>> > We had issues with tracking the plane sadly. But it did release at height

>> > and we did get it back, surprisingly with little damage.
>> > We got forced into doing it on Thursday as I was flying back to the UK on
>> > Friday.
>> >
>> > Not sure how I got back with no problems considering the kit I was
>> carrying,
>> > and the Terrorist activity, on the day.
>> >
>> > Steve
>> > G6UIM
>> >
>> > -----Original Message-----
>> > From: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] On Behalf Of Mike
>> > Manes
>> > Sent: 30 October 2010 04:18
>> > To: GPSL Balloon Reflector
>> > Subject: [GPSL] LOST Vulture One PARIS spaceplane FOUND!!! . The Register
>> >
>> > http://www.theregister.co.uk/2010/10/28/vulture_one_recovered/
>>
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8796. Re: [GPSL] Local coverage of Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 23:36:25 UTC
From: Mike Manes
Topic: 8787 Message: 8796

Hi Paul,

EOSS-158 is flying this weekend, 11/6, just a few days shy of the 20th anniversary of EOSS-1 which launched 11/17/1990. That works out to 7.9 flights per year. But EOSS-100 flew on our 15th anniversary, just 5 years ago - EOSS's pace has since bumped up to 11.6 / yr, thanks in a LARGE part to Chris Koehler of Colorado NASA Space Grant.

So get off your keister, Paul :=)

However, I can't remember the last time any EOSS flight got media coverage. Coulda been in the Tri County Courier out of greater downtown Deer Trail, CO, back in our 2-digit flight number days.

73 de Mike W5VSI
CTO EOSS

On 11/1/2010 09:16, L. Paul Verhage wrote:
>
>
> Perhaps it's a bit easier in a college town....
> We were able to get the local newspaper out to our latest launch.
> http://www2.ljworld.com/news/2010/nov/01/weather-balloon-carries-research-project-lofty-hei/
> This was launch 84 in 14 years. That averages out to one every 2 months.
> Okay, now how many more launches would it take me to check up to Bill or EOSS?
> ;)
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8797. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-01 23:52:36 UTC
From: BASE
Topic: 8781 Message: 8797

Tim,
The distance between the balloon and parachute is generally twenty feet. Typically, the distance between the parachute an the first payload box is about eight feet, with subsequent payloads separated by similar distances. However on descent, the balloon fragment usually hangs below and to the rear of the flight train making the overall length of the system shorter.

Of our 53 flights, 15 have ended with tree landings. Two were in a fence row, but the rest were either into multiple trees or in the middle of an extended set of trees. It is my opinion that a long flight string, from the parachute to the lowest payload makes it more problematic when the system lands in a tree top. I have had two tree landings where the lowest payload pod or pods are dangling free. It is more common for the lowest pod to encounter the trees first and the rest of the flight string to land according to the prevailing wind. Here is a link to a photo from the landing of BASE 34.
http://www.depauw.edu/acad/physics/base/images/BASE34landing.jpg
If I can keep the total payload under six pounds, I will put all of my packages (assuming no radio interference problems) in a single bundle below the parachute. This reduces the height of the descending system and slightly reduces the cross section for encounters with the trees.
Howard, KC9QBNBASE-DePauw
--- On Mon, 11/1/10, Tim <sarbresam@...> wrote:

From: Tim <sarbresam@...>
Subject: Re: [GPSL] Trees
To: GPSL@yahoogroups.com
Date: Monday, November 1, 2010, 4:03 PM

I have a question for the list...

How long is the distance from your balloon to your payload? I know everyone will have a different answer but in my mind longer is better. If your parachute gets caught in a 50' tree and the distance is between the chute and payload is 50' then at worst you loose the chute? I also think that the payload is more stable the farther away it is from the balloon, on the ascent that is. I do not have any facts to back this up so I could be way off base but it seems to be true in the scaled down tests that Brenden and I have done.

Thanks for your input,
Tim
KJ6HSX

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Mon, November 1, 2010 7:35:13 AM
Subject: Re: [GPSL] Trees

Paul,
Here's what goes with me on every tracking and recovery:

1. A 40 foot extended Wonder Pole (http://www.wonderpole.com/wp640_630.html) with two special ends. One is a hook made from 3/8 inch threaded rod. The second is an old pruning saw blade.
2. The EZHang system (http://ezhang.com/index.php?_a=viewCat&catId=1) (a Hyperdog Sling Shot, Zebco 33 reel, one ounce lead shots, and tennis balls, 250 feet of 300 pound test line).
3. A rope saw (mine is a Sears model that is no longer available, but here is a similar product http://www.treehelp.com/itemdesc.asp?ic=GM-CS-48)
4. Corona Clipper Razor Tooth Pruning Saw
5. An assortment of extra ropes (approximately 200 feet) for extending the rope saw and/or pulling on limbs/payload strings with a stronger rope.
I do have a chain saw and axe that I have brought to recovery sites on the return trip, if chain saw is a viable option. On a couple of occasions, I have hired a tree climber to recover the flight system. In my experience, three hours to get out of a significant tree is not too bad. My son and I spent seven hours on Saturday (after three hours on the flight day) working on retrieving the remaining radio and parachute from BASE 53. Still need to make one last return trip (ran out of daylight) to finish the retrieval.
Howard, KC9QBNBASE-DePauw

--- On Sun, 10/31/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Trees
To: gpsl@yahoogroups.com
Date: Sunday, October 31, 2010, 8:52 PM

My latest flight took three hours to remove from trees. What is everyone carrying for tree removal?

--
Onwards and Upwards,
Paul

8798. Re: [GPSL] WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 00:37:43 UTC
From: Mike Manes
Topic: 8793 Message: 8798

He may have dropped AOL. Try his gmail address:

wb8elk@...

73 de Mike W5VSI

On 11/1/2010 14:37, Joe wrote:
> Did bill Change his E Mail?
>
> His AOL address is bouncing.
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8799. Re: [GPSL] WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 00:42:12 UTC
From: Zack Clobes
Topic: 8793 Message: 8799

Woohoo! Bill's moving up in the world!

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Nov 1, 2010 at 7:37 PM, Mike Manes <mrmanes@...> wrote:

>
>
> He may have dropped AOL. Try his gmail address:
>
> wb8elk@... <wb8elk%40gmail.com>
>
> 73 de Mike W5VSI
>
> On 11/1/2010 14:37, Joe wrote:
> > Did bill Change his E Mail?
> >
> > His AOL address is bouncing.
> >
> > Joe WB9SBD
> > --
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
>
> --
> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8800. Tracking Online

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 01:09:08 UTC
From: L. Paul Verhage
Topic: 8800 Message: 8800

I've created a webpage of links so anyone can track NearSys flights onlne.

http://nearsys.com/arhab/tracking.htm

I'll keep updating the page. I plan to continue flying a SPOT tracker on each mission. My share page link is located on my tracking page.

It looks like I ony send a single message from yesterday's flight. I was trying to set it to transmit every 10 minutes.
--
Onwards and Upwards,
Paul

8801. Re: [GPSL] WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 01:12:59 UTC
From: Joe
Topic: 8793 Message: 8801
Attachments: 1 described; binary payloads are missing from this source WARC

Yeah I thought he had a G mail account but wasn't sure.

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/1/2010 7:37 PM, Mike Manes wrote:
> He may have dropped AOL. Try his gmail address:
>
> wb8elk@...
>
> 73 de Mike W5VSI
>
> On 11/1/2010 14:37, Joe wrote:
>> Did bill Change his E Mail?
>>
>> His AOL address is bouncing.
>>
>> Joe WB9SBD
>> --
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com

8802. Launch this Sunday 11/07/2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 01:47:26 UTC
From: Brenden Geary
Topic: 8802 Message: 8802

I am launching again on Sunday 11/07/2010. I plan to stream the launch live to the web if you have nothing to do Sunday morning take a look. The stream will be only from the ground not the payload. The launch should be at sunrise, around 8am PST because of the time change. The payload will contain a HD video camera, praying for some great footage and it back of course.

Here is the link for the video...

http://brendengeary.squarespace.com/live-video/

Brenden

8803. Weather balloon carries KU research project to lofty heights

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 05:41:52 UTC
From: gregwilliams@knology.net
Topic: 8803 Message: 8803

http://www2.ljworld.com/news/2010/nov/01/weather-balloon-carries-research-project-lofty-hei/

Video included

Paul Verhage and his team of students and amateur radio operators spent their Halloween morning with eyes toward the sky. When not looking upward, their gaze was fixed on high-tech tracking equipment and GPS units.

Although the group’s mission was weather-related, it was a balloon they were chasing, not a tornado.

More at the link

8804. Taylor University 250th launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 14:26:52 UTC
From: Jeff Dailey
Topic: 8804 Message: 8804

Taylor University will be launching Two 1200gm balloons, the ASTRO launch will be our 250th launch.

Flight #: 250
Flight ID: 2010 Fall ASTRO
Date: 11-06-2010
Time: 9:00 AM
Launch Site: Taylor University

APRS: 144.390 KC9QCD-11

Flight #: 251
Flight ID: 2010 Fall CHEM
Date: 11-06-2010
Time: 10:00 AM
Launch Site: Taylor University

APRS: 144.390 KC9QCD-12

HawkEye Spec:
Analog channels: 25 to 250
High speed user data bus interface (ZigBee 2.4Ghz)
Three axis GPS configuration (20Hz sampling)
Dual high speed Uplink / Downlink RF module 900Mhz ISM (Secured Constellation MESH Network)
Controlled Ascent / Descent rates
Altitude Hold (+- 500m)
Stabilized targeting platform (+-3 Degree)

Jeffrey F. Dailey
Center for Research & Innovation
Research Engineer
Taylor University
236 W. Reade Ave.
Upland, IN 46989
(765) 998-4365 Fax (765) 998-4396
jfdailey@...

8805. Re: [GPSL] Taylor University 250th launch date

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 14:39:22 UTC
From: L. Paul Verhage
Topic: 8804 Message: 8805

I didn't realize Taylor had so many launches.

I hope I can start something like that for my job after graduation.

Paul

On Tue, Nov 2, 2010 at 9:26 AM, Jeff Dailey <jfdailey@...> wrote:

> Taylor University will be launching Two 1200gm balloons, the ASTRO launch
> will
> be our 250th launch.
>
> Flight #: 250
> Flight ID: 2010 Fall ASTRO
> Date: 11-06-2010
> Time: 9:00 AM
> Launch Site: Taylor University
>
> APRS: 144.390 KC9QCD-11
>
>
>
> Flight #: 251
> Flight ID: 2010 Fall CHEM
> Date: 11-06-2010
> Time: 10:00 AM
> Launch Site: Taylor University
>
> APRS: 144.390 KC9QCD-12
>
>
>
> HawkEye Spec:
> Analog channels: 25 to 250
> High speed user data bus interface (ZigBee 2.4Ghz)
> Three axis GPS configuration (20Hz sampling)
> Dual high speed Uplink / Downlink RF module 900Mhz ISM (Secured
> Constellation
> MESH Network)
> Controlled Ascent / Descent rates
> Altitude Hold (+- 500m)
> Stabilized targeting platform (+-3 Degree)
>
>
>
>

>
>
> Jeffrey F. Dailey
> Center for Research & Innovation
> Research Engineer
> Taylor University
> 236 W. Reade Ave.
> Upland, IN 46989
> (765) 998-4365 Fax (765) 998-4396
> jfdailey@...
>
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8806. Re: [GPSL] Zigbee freq for least 2m / GPS interference

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 20:47:10 UTC
From: wb8elk@aol.com
Topic: 8779 Message: 8806

Dan,

Last August I flew a 100 milliwatt Zigbee PRO XSC unit on 915 MHz sitting about 6 inches from my Inventek GPS board and I saw no desense problems...in fact I managed to get quite a few direct to ground telemetry strings from the Zigbee unit in the balloon using it's rubber duck antenna to my 8 dBi patch antenna and another Zigbee PRO unit on the ground from over 20 miles away....and in it's worse antenna pattern for the balloon since I was directly underneath it while it was 20 miles above me.

- Bill WB8ELK

-----Original Message-----
From: Dan Bowen <dbowen1@...>
To: GPSL@yahoogroups.com
Sent: Mon, Nov 1, 2010 2:29 pm
Subject: Re: [GPSL] Zigbee freq for least 2m / GPS interference

Thanks guys, that's great information!!

Thanks,
Dan

On Nov 1, 2010, at 11:56 AM, Meer, Stephen wrote:

Dan,

I echo Howard’s experience. I have flown both high and low power level Digi ZigBee 2 GHz modules that were mounted within 1” of Garmin GPS-15 and uBlox GPS units (and within 3” of their antennas) without difficulty for over 5 flights. In all cases I used ZigBee units with integral antennas, both the patch and wire version. Based on bench tests and field use I have also not seen any indication of 2M receive sensitivity loss in the presence of 2 GHz ZigBee either.

I utilize pretty standard foam core compartmented enclosures. I do however place a mu-metal foil shield between the compartment housing the GPS antenna on the top of the payload and the lower compartments housing the rest of the gear. No fancy feed through for the GPS coax is used. I got into this habit from my 433 MHz balloon-bus days where I did have issue with GPS receiver interference which was ultimately traced to the 433 MHz getting into the GPS antenna internal preamp.

In the past I have had to resolve interesting 2M birdies generated from my serial data lines within the payloads so I would suggest checking for those carefully.

/s/Stephen, K0SCC
EOSS

: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Dan Bowen
Sent: Sunday, October 31, 2010 6:38 PM

To: Gpsl
Subject: [GPSL] Zigbee freq for least 2m / GPS interference

Hi All,
We're looking at Zigbee to talk to temp sensors in our ZP balloons this year. I've seen lots of zigbee talk on this list, but often the frequency used isn't mentioned. I've read a lot of the past posts regarding it, but I was wondering if anyone could just comment on your experiences with Zigbee de-sensing the GPS receiver. I.e. which freq of zigbee tx created the problem, and how far was it from the GPS and 2m

Thanks,

Dan

Sent from my iPhone 4

8807. Re: [GPSL] WB8ELK

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 20:50:31 UTC
From: wb8elk@aol.com
Topic: 8793 Message: 8807
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe...nope...my mailbox filled up.....apparently 4000 is the limit for AOL...guess I need to do some housekeeping on my emails.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Mon, Nov 1, 2010 4:37 pm
Subject: [GPSL] WB8ELK

Did bill Change his E Mail?

His AOL address is bouncing.

Joe WB9SBD

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8808. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 21:20:54 UTC
From: Tim
Topic: 8781 Message: 8808

Howard,

That picture awful, it couldn't have landed in a worse spot. I see your point... you want the payload footprint to be as small as possible to possibly slip past the trees. Have you put a video camera in any of your payloads? If so did you use the same setup? If you would like to check it out Brenden will be streaming his launch live at 8am pst Sunday 11/07/2010.

http://brendengeary.squarespace.com/live-video/

Thanks,
Tim
KJ6HSX

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Sent: Mon, November 1, 2010 4:52:36 PM
Subject: Re: [GPSL] Trees

Tim,

The distance between the balloon and parachute is generally twenty feet. Typically, the distance between the parachute an the first payload box is about eight feet, with subsequent payloads separated by similar distances. However on descent, the balloon fragment usually hangs below and to the rear of the flight train making the overall length of the system shorter.

Of our 53 flights, 15 have ended with tree landings. Two were in a fence row, but the rest were either into multiple trees or in the middle of an extended set of trees. It is my opinion that a long flight string, from the parachute to the lowest payload makes it more problematic when the system lands in a tree top. I have had two tree landings where the lowest payload pod or pods are dangling free. It is more common for the lowest pod to encounter the trees first and the rest of the flight string to land according to the prevailing wind. Here is a link to a photo from the landing of BASE 34.

http://www.depauw.edu/acad/physics/base/images/BASE34landing.jpg

If I can keep the total payload under six pounds, I will put all of my packages (assuming no radio interference problems) in a single bundle below the parachute. This reduces the height of the descending system and slightly reduces the cross section for encounters with the trees.

Howard, KC9QBN
BASE-DePauw

--- On Mon, 11/1/10, Tim <sarbresam@...> wrote:

>From: Tim <sarbresam@...>
>Subject: Re: [GPSL] Trees
>To: GPSL@yahoogroups.com
>Date: Monday, November 1, 2010, 4:03 PM
>
>
>
>I have a question for the list...
>
>How long is the distance from your balloon to your payload? I know everyone
>will have a different answer but in my mind longer is better. If your parachute
>gets caught in a 50' tree and the distance is between the chute and payload is
>50' then at worst you loose the chute? I also think that the payload is more
>stable the farther away it is from the balloon, on the ascent that is. I do not
>have any facts to back this up so I could be way off base but it seems to be
>true in the scaled down tests that Brenden and I have done.
>
>Thanks for your input,
>Tim
>KJ6HSX
>
>
>
>
>
>

From: BASE <basedepauw@...>
>To: GPSL@yahoogroups.com
>Sent: Mon, November 1, 2010 7:35:13 AM
>Subject: Re: [GPSL] Trees
>
>
>Paul,
>
>
>Here's what goes with me on every tracking and recovery:
>
>
>1. A 40 foot extended Wonder Pole
>(http://www.wonderpole.com/wp640_630.html) with two special ends. One is a hook
>made from 3/8 inch threaded rod. The second is an old pruning saw blade.
>
>
>2. The EZHang system (http://ezhang.com/index.php?_a=viewCat&catId=1) (a
>Hyperdog Sling Shot, Zebco 33 reel, one ounce lead shots, and tennis balls, 250
>feet of 300 pound test line).
>
>
>3. A rope saw (mine is a Sears model that is no longer available, but here is a
>similar product http://www.treehelp.com/itemdesc.asp?ic=GM-CS-48)

>
>
>4. Corona Clipper Razor Tooth Pruning Saw
>
>
>5. An assortment of extra ropes (approximately 200 feet) for extending the rope
>saw and/or pulling on limbs/payload strings with a stronger rope.
>
>
>I do have a chain saw and axe that I have brought to recovery sites on the
>return trip, if chain saw is a viable option. On a couple of occasions, I have
>hired a tree climber to recover the flight system.
>
>In my experience, three hours to get out of a significant tree is not too bad.
> My son and I spent seven hours on Saturday (after three hours on the flight
>day) working on retrieving the remaining radio and parachute from BASE 53.
> Still need to make one last return trip (ran out of daylight) to finish the
>retrieval.
>
>
>Howard, KC9QBN
>BASE-DePauw
>
>
>
>
>--- On Sun, 10/31/10, L. Paul Verhage <nearsys@...> wrote:
>
>
>>From: L. Paul Verhage <nearsys@gmail.com>
>>Subject: [GPSL] Trees
>>To: gpsl@yahoogroups.com
>>Date: Sunday, October 31, 2010, 8:52 PM
>>
>>
>>
>>My latest flight took three hours to remove from trees. What is everyone
>>carrying for tree removal?
>>
>>--
>>Onwards and Upwards,
>>Paul
>>
>
>

8809. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 21:37:58 UTC
From: Mark Conner
Topic: 8781 Message: 8809

We have had more fortune than some of Howard's exploits - in 40-some flights we have had only two tree landings (and Paul was there for one of them). Most of eastern Nebraska and western Iowa is blessedly free of trees when compared to the Midwest or South.

Even so, we carry an extensible pole (believe it's primarily for painting, also used by an NSTAR member to hang Christmas lights) with a hook on the end. On the first tree landing flight, Paul was able to climb the tree some distance and snag it with a short length of the pole. The very next flight, we landed in a tree yet again about 30 feet up. We were just able to snag one of the payloads and bend the entire tree over (they were tall but spindly) to pull the entire flight train out.

I have had thoughts of including ~50 ft of line terminated with a lead weight hanging from the bottom payload. The idea is that that line would perhaps hang down within easier reach and allow the recovery team to pull the flight string out of the tree. Or, if one were really good at such things, have the line spooled inside a payload and released when it detected that it's landed. The weight would hopefully fall somewhat cleanly through the branches to ground level. Of course Murphy could play havoc with either solution and you end up still needing one of the other methods.

A chain saw with sufficient gasoline and oil is probably the most reliable solution.

73 de Mark N9XTN

On Sun, Oct 31, 2010 at 19:52, L. Paul Verhage <nearsys@...> wrote:

>
>
> My latest flight took three hours to remove from trees. What is everyone
> carrying for tree removal?
>
> --
> Onwards and Upwards,
> Paul
>

8810. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 22:43:29 UTC
From: wb8elk@aol.com
Topic: 8781 Message: 8810

Mark,

We've been toying with just such a concept called "Rapunzel"....where the lead weight on a spool is released after landing in hopes it will make it way to the ground.

- Bill WB8ELK

We've used the chain saw method on many occasions (although tree-climbing engineering students also are quite effective)....we land in trees about 50 percent of the time... or in lakes.
The only drawback to the chainsaw method is that the landowner sometimes asks us to cut the tree up in 2-foot lengths and stack it up near the house.

Anyone thought of building a tree-climbing robot??

-----Original Message-----
From: Mark Conner <mconner1@...>
To: GPSL@yahoogroups.com
Sent: Tue, Nov 2, 2010 4:37 pm
Subject: Re: [GPSL] Trees

We have had more fortune than some of Howard's exploits - in 40-some flights we have had only two tree landings (and Paul was there for one of them). Most of eastern Nebraska and western Iowa is blessedly free of trees when compared to the Midwest or South.

Even so, we carry an extensible pole (believe it's primarily for painting, also used by an NSTAR member to hang Christmas lights) with a hook on the end. On the first tree landing flight, Paul was able to climb the tree some distance and snag it with a short length of the pole. The very next flight, we landed in a tree yet again about 30 feet up. We were just able to snag one of the payloads and bend the entire tree over (they were tall but spindly) to pull the entire flight train out.

I have had thoughts of including ~50 ft of line terminated with a lead weight hanging from the bottom payload. The idea is that that line would perhaps hang down within easier reach and allow the recovery team to pull the flight string out of the tree. Or, if one were really good at such things, have the line spooled inside a payload and released when it detected that it's landed. The weight would hopefully fall somewhat cleanly through the branches to ground level. Of course Murphy could play havoc with either solution and you end up still needing one of the other methods.

A chain saw with sufficient gasoline and oil is probably the most reliable solution.

73 de Mark N9XTN

On Sun, Oct 31, 2010 at 19:52, L. Paul Verhage <nearsys@gmail.com> wrote:

My latest flight took three hours to remove from trees. What is everyone carrying for tree removal?

--
Onwards and Upwards,
Paul

8811. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 23:03:12 UTC
From: L. Paul Verhage
Topic: 8781 Message: 8811

Painting pole, thanks. I was thinking it was for electrical work, but those
are expensive. So I'm going to look into painting and pool cleaning poles.

Paul

On Tue, Nov 2, 2010 at 4:37 PM, Mark Conner <mconner1@...> wrote:

>
>
> We have had more fortune than some of Howard's exploits - in 40-some
> flights we have had only two tree landings (and Paul was there for one of
> them). Most of eastern Nebraska and western Iowa is blessedly free of trees
> when compared to the Midwest or South.
>
> Even so, we carry an extensible pole (believe it's primarily for painting,
> also used by an NSTAR member to hang Christmas lights) with a hook on the
> end. On the first tree landing flight, Paul was able to climb the tree some
> distance and snag it with a short length of the pole. The very next flight,
> we landed in a tree yet again about 30 feet up. We were just able to snag
> one of the payloads and bend the entire tree over (they were tall but
> spindly) to pull the entire flight train out.
>
> I have had thoughts of including ~50 ft of line terminated with a lead
> weight hanging from the bottom payload. The idea is that that line would
> perhaps hang down within easier reach and allow the recovery team to pull
> the flight string out of the tree. Or, if one were really good at such
> things, have the line spooled inside a payload and released when it detected
> that it's landed. The weight would hopefully fall somewhat cleanly through
> the branches to ground level. Of course Murphy could play havoc with either
> solution and you end up still needing one of the other methods.
>
> A chain saw with sufficient gasoline and oil is probably the most reliable
> solution.
>
> 73 de Mark N9XTN
>
> On Sun, Oct 31, 2010 at 19:52, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> My latest flight took three hours to remove from trees. What is everyone
>> carrying for tree removal?
>>
>> --
>> Onwards and Upwards,
>> Paul

>>
>
>
>
>

--
Onwards and Upwards,
Paul

8812. CNSP High altitude attempt on November 4, 2010

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 23:27:09 UTC
From: k6rpt
Topic: 8812 Message: 8812

California Near Space Project is preparing to launch another high altitude attempt on November 4, 2010 at 3:30 a.m. PST weather permitting.

If the wind is up at launch time, the mission will be canceled and then we will post the next launch attempt date on our website. http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

8813. RE: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-02 23:56:58 UTC
From: Meer, Stephen
Topic: 8781 Message: 8813

How about a R/C rescue helicopter?

/s/SM2 K0SCC

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@aol.com
Sent: Tuesday, November 02, 2010 4:43 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Trees

Mark,

We've been toying with just such a concept called "Rapunzel"....where the lead weight on a spool is released after landing in hopes it will make it way to the ground.

- Bill WB8ELK

We've used the chain saw method on many occasions (although tree-climbing engineering students also are quite effective)....we land in trees about 50 percent of the time... or in lakes.
The only drawback to the chainsaw method is that the landowner sometimes asks us to cut the tree up in 2-foot lengths and stack it up near the house.

Anyone thought of building a tree-climbing robot??

-----Original Message-----
From: Mark Conner <mconner1@gmail.com>
To: GPSL@yahoogroups.com
Sent: Tue, Nov 2, 2010 4:37 pm
Subject: Re: [GPSL] Trees

We have had more fortune than some of Howard's exploits - in 40-some flights we have had only two tree landings (and Paul was there for one of them). Most of eastern Nebraska and western Iowa is blessedly free of trees when compared to the Midwest or South.

Even so, we carry an extensible pole (believe it's primarily for painting, also used by an NSTAR member to hang Christmas lights) with a hook on the end. On the first tree landing flight, Paul was able to climb the tree some distance and snag it with a short length of the pole. The very next flight, we landed in a tree yet again about 30 feet up. We were just able to snag one of the payloads and bend the entire tree over (they were tall but spindly) to pull the entire flight train out.

I have had thoughts of including ~50 ft of line terminated with a lead weight hanging from the bottom payload. The idea is that that line would perhaps hang down within easier reach and allow the recovery team to pull the flight string out of the tree. Or, if one were really good at such things, have the line spooled inside a payload and released when it detected that it's landed. The weight would hopefully fall somewhat cleanly through the branches to ground level. Of course Murphy could play havoc with either solution and you end up still needing one of the other methods.

A chain saw with sufficient gasoline and oil is probably the most reliable solution.

73 de Mark N9XTN
On Sun, Oct 31, 2010 at 19:52, L. Paul Verhage
<nearsys@gmail.com<mailto:nearsys@gmail.com>> wrote:

My latest flight took three hours to remove from trees. What is everyone carrying for tree removal?

--
Onwards and Upwards,
Paul

8814. Re: [GPSL] Trees

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-03 00:01:22 UTC
From: Mike Manes
Topic: 8781 Message: 8814

I shudder to think of how the parachute might behave in the rotor
downwash :=P.
73 de Mike W5VSI

On 11/2/2010 16:56, Meer, Stephen wrote:
>
>
> How about a R/C rescue helicopter?
>
> /s/SM2 K0SCC
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *wb8elk@...
> *Sent:* Tuesday, November 02, 2010 4:43 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Trees
>
> Mark,
>
> We've been toying with just such a concept called "Rapunzel"....where the lead
> weight on a spool is released after landing in hopes it will make it way to
> the ground.
>
> - Bill WB8ELK
>
> We've used the chain saw method on many occasions (although tree-climbing
> engineering students also are quite effective)....we land in trees about 50
> percent of the time... or in lakes.
> The only drawback to the chainsaw method is that the landowner sometimes asks
> us to cut the tree up in 2-foot lengths and stack it up near the house.
>
> Anyone thought of building a tree-climbing robot??
>
>
> -----Original Message-----
> From: Mark Conner <mconner1@...>
> To: GPSL@yahoogroups.com
> Sent: Tue, Nov 2, 2010 4:37 pm
> Subject: Re: [GPSL] Trees
>
> We have had more fortune than some of Howard's exploits - in 40-some flights
> we have had only two tree landings (and Paul was there for one of them). Most
> of eastern Nebraska and western Iowa is blessedly free of trees when compared
> to the Midwest or South.
>

> Even so, we carry an extensible pole (believe it's primarily for painting,
> also used by an NSTAR member to hang Christmas lights) with a hook on the end.
> On the first tree landing flight, Paul was able to climb the tree some
> distance and snag it with a short length of the pole. The very next flight, we
> landed in a tree yet again about 30 feet up. We were just able to snag one of
> the payloads and bend the entire tree over (they were tall but spindly) to
> pull the entire flight train out.
>
> I have had thoughts of including ~50 ft of line terminated with a lead weight
> hanging from the bottom payload. The idea is that that line would perhaps hang
> down within easier reach and allow the recovery team to pull the flight string
> out of the tree. Or, if one were really good at such things, have the line
> spooled inside a payload and released when it detected that it's landed. The
> weight would hopefully fall somewhat cleanly through the branches to ground
> level. Of course Murphy could play havoc with either solution and you end up
> still needing one of the other methods.
>
> A chain saw with sufficient gasoline and oil is probably the most reliable
> solution.
>
> 73 de Mark N9XTN
>
> On Sun, Oct 31, 2010 at 19:52, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
>
>
> My latest flight took three hours to remove from trees. What is everyone
> carrying for tree removal?
>
> --
> Onwards and Upwards,
> Paul
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8815. CNSP flight is canceled for 11-4-2010.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-03 14:57:30 UTC
From: k6rpt
Topic: 8815 Message: 8815

CNSP flight is canceled for 11-4-2010.

UPS has delayed our balloon shipment to 11-4.They have had our shipment at their Oakland facility since 11-2 and have not kept the shipment moving to San Jose; we should have received the balloon today 11-3.

The weather conditions will not be favorable for launch the next few days after 11-4.

We will post information on our next launch attempt at
http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

8816. BASE 54 -Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 01:53:17 UTC
From: BASE
Topic: 8816 Message: 8816

Dear friends,

The T -24 hour GFS wind model has brought an interesting twist to tomorrow's flight. The winds have decreased at almost all altitudes (above surface) and rotated slightly northward. End result is a set of predictions centered on a landing just outside of turn three at the Indianapolis Motor Speedway. There'e no race there tomorrow, but the 10 mile radius landing zone is daunting to say the least (downtown Indianapolis, the airport, etc.). Of course, that sort of landing zone could bring additional publicity to ARHAB :)

This may lead to a slow climb flight which is always exciting (remember BASE 20 to Lake Erie??) with strong surface winds.

I'll run new predictions on Thursday morning.

The flight will also carry the 900 MHz spread spectrum transmitter. The APRS radio is a MicroTrak 300 mW on 144.39 MHz with the W9YJ-11 call sign using WIDE 2,1. An additional backup tracker from Trey, KC9QOV.

Thanks for your support,
Howard, KC9QBN
BASE DePauw

8817. Re: [Balloon_Sked] BASE 54 -Thursday

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 02:01:00 UTC
From: Pete Lilja
Topic: 8816 Message: 8817

Turn 3 seats at IMS are no good as you have to look into the sun too much!
Sitting in turn 2 or 1 would put the sun at your back for a better view of
the landing!

All the above is tongue-in-cheek, of course. I enjoy watching your flights,
Howard!

Pete
KC0GPB

On Wed, Nov 3, 2010 at 8:53 PM, BASE <basedepauw@...> wrote:

>
>
> Dear friends,
>
> The T -24 hour GFS wind model has brought an interesting twist to
> tomorrow's flight. The winds have decreased at almost all altitudes (above
> surface) and rotated slightly northward. End result is a set of predictions
> centered on a landing just outside of turn three at the Indianapolis Motor
> Speedway. There'e no race there tomorrow, but the 10 mile radius landing
> zone is daunting to say the least (downtown Indianapolis, the airport,
> etc.). Of course, that sort of landing zone could bring additional publicity
> to ARHAB :)
>
> This may lead to a slow climb flight which is always exciting (remember
> BASE 20 to Lake Erie??) with strong surface winds.
>
> I'll run new predictions on Thursday morning.
>
> The flight will also carry the 900 MHz spread spectrum transmitter. The
> APRS radio is a MicroTrak 300 mW on 144.39 MHz with the W9YJ-11 call sign
> using WIDE 2,1. An additional backup tracker from Trey, KC9QOV.
>
> Thanks for your support,
> Howard, KC9QBN
> BASE DePauw
>
>
>

8818. Re: [GPSL] BASE 54 -Thursday UPDATE

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 13:48:48 UTC
From: BASE
Topic: 8816 Message: 8818

Dear friends,
The latest wind predictions still have a Greencastle launch resulting in an Indianapolis landing. As a result, we will move the launch site to Northmont Schools, Crawfordsville, Indiana (40.12 N, 86.91 W).
Launch will probably be a little bit later than 1700 UTC.
Thanks for your support,Howard, KC9QBNBASE DePauw

--- On Wed, 11/3/10, BASE <basedepauw@yahoo.com> wrote:

From: BASE <basedepauw@...>
Subject: [GPSL] BASE 54 -Thursday
To: gpsl@yahoogroups.com, balloon_sked@yahoogroups.com, hbrooks@socket.net, n9qgs@..., jfdailey@..., jkrueger@..., wa0tjt@..., wb8elk@..., treyfox33@...
Date: Wednesday, November 3, 2010, 9:53 PM

Dear friends,

The T -24 hour GFS wind model has brought an interesting twist to tomorrow's flight. The winds have decreased at almost all altitudes (above surface) and rotated slightly northward. End result is a set of predictions centered on a landing just outside of turn three at the Indianapolis Motor Speedway. There'e no race there tomorrow, but the 10 mile radius landing zone is daunting to say the least (downtown Indianapolis, the airport, etc.). Of course, that sort of landing zone could bring additional publicity to ARHAB :)

This may lead to a slow climb flight which is always exciting (remember BASE 20 to Lake Erie??) with strong surface winds.

I'll run new predictions on Thursday morning.

The flight will also carry the 900 MHz spread spectrum transmitter. The APRS radio is a MicroTrak 300 mW on 144.39 MHz with the W9YJ-11 call sign using WIDE 2,1. An additional backup tracker from Trey, KC9QOV.

Thanks for your support,

Howard, KC9QBN

BASE DePauw

8819. Inflight Video form NearSys 10G

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 14:04:55 UTC
From: L. Paul Verhage
Topic: 8819 Message: 8819

I posted video taken by the near spacecraft of my last flight. I wanted to see how much the BalloonSats would bounce around, unfortunately, the camera was shut off just after balloon burst (I wanted to see the effects of post-burst chaos and it was probably what shut me down). In the few seconds of video at the end, you can see modules spin what looks like a 360.

It's a shame, I would have really liked to have video of the tree snatching the poor, innocent near spacecraft out of the air.

http://www.youtube.com/watch?v=9dVCDNExVis

--
Onwards and Upwards,
Paul

8820. PARIS laid bare in intimate snaps • The R egister

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 22:23:49 UTC
From: Mike Manes
Topic: 8820 Message: 8820

Nice pix and narrative, and kudos on a difficult recovery.

http://www.theregister.co.uk/2010/11/03/paris_photos/

But that main payload's aerodynamics must have created some serious PBC!

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8821. RE: [GPSL] PARIS laid bare in intimate snaps . The Regis ter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 23:49:22 UTC
From: Steve D
Topic: 8820 Message: 8821

Still photos from the payload will be on the site tomorrow. The pilot still recovering from the spin :-)

Although the coverage was light hearted, and obviously we had a laugh putting a pilot onboard. We were very serious in construction. And the point was to see if an unguided paper plane could make it down from 50 - 55,000ft.

Ok it released at 89,500ft due to unknown circumstances.
My local paper has picked up on it, I did try to promote balloons and amateur radio to the reporter, but on the grounds the reporter asked if we went up on the balloon, I don't hold out much hope.

I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared to loan, would be nice to see it get more use.

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 04 November 2010 22:24
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS laid bare in intimate snaps . The Register

Nice pix and narrative, and kudos on a difficult recovery.

http://www.theregister.co.uk/2010/11/03/paris_photos/

But that main payload's aerodynamics must have created some serious PBC!

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

8822. Re: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 00:01:27 UTC
From: Joe
Topic: 8820 Message: 8822
Attachments: 1 described; binary payloads are missing from this source WARC

how far away from the support payload landing spot was the gliders
landing spot?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/4/2010 6:49 PM, Steve D wrote:
> Still photos from the payload will be on the site tomorrow. The pilot still
> recovering from the spin :-)
>
> Although the coverage was light hearted, and obviously we had a laugh
> putting a pilot onboard. We were very serious in construction. And the point
> was to see if an unguided paper plane could make it down from 50 - 55,000ft.
>
> Ok it released at 89,500ft due to unknown circumstances.
> My local paper has picked up on it, I did try to promote balloons and
> amateur radio to the reporter, but on the grounds the reporter asked if we
> went up on the balloon, I don't hold out much hope.
>
> I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared
> to loan, would be nice to see it get more use.
>
> Steve
> G6UIM
>
>
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
> Manes
> Sent: 04 November 2010 22:24
> To: GPSL Balloon Reflector
> Subject: [GPSL] PARIS laid bare in intimate snaps . The Register
>
> Nice pix and narrative, and kudos on a difficult recovery.
>
> http://www.theregister.co.uk/2010/11/03/paris_photos/
>
> But that main payload's aerodynamics must have created some serious PBC!
>
> 73 de Mike W5VSI

8823. BASE 54 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-04 23:49:05 UTC
From: BASE
Topic: 8823 Message: 8823

BASE 54 went smoothly today. Winds at launch were not too difficult. We did carry a second APRS beacon using KC9QOV-11. 600 gram balloon took 6 pounds of payload to 86,000 feet. Soft landing in a harvested field on the southern edge of Gas City, Indiana.

Geiger counters are still recording. Data downloaded tomorrow.

Thanks for the support,
Howard, KC9QBN
BASE -DePauw

8824. Re: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 01:03:53 UTC
From: Mike Manes
Topic: 8820 Message: 8824

Hi Steve,

Well, you guys and the PARIS project did bring ARHAB to the attention of - pardon - geekdom, and that's how this hobby grows. Those who seriously ponder doing their own flights quickly learn the limits as well as the tricks and kinks once venturing into balloonacy.

One of the tricks is that "line of sight is a magic thing", such that even a QRPP 2m beacon is still full quieting 160 km downrange. And that some battery chemistries survive the deep cold of the tropopause better than other. LiSO2 primary cells are the king there, with Li-ion hanging in down to below -15C. But the polymer in LiPO cells gets real viscous below 0C, so the internal resistance goes way up.

Once the payload is on the deck, however, more ERP is nice to have in order to initiate a DF towards recovery if one is way out of position at landing.

Now, at normal ascent rates, it doesn't take much thermal insulation to keep the sensitive bits of electronics comfortable. But during descent, airspeed rises rapidly to upwards of 200 kph, so convective heat transfer becomes quite effective; and further, all that cold outside air now infliltates through any crack. This phenomenon has been observed many times in ARHAB payloads, and may be the root cause of loss of APRS reports during descent. And one descends thru a cloud, condensation can form on the chilled bits.

Another cause of post-burst loss of APRS is a fragile antenna or feedline (PVC simply shatters under stress when chilled below -30C). That sort of failure is easy to discover upon recovery - unlike the low temperature issues.

Murphy has plenty more tricks to play, but learning through experience is longer lasting.

73 de Mike W5VSI

On 11/4/2010 16:49, Steve D wrote:
> Still photos from the payload will be on the site tomorrow. The pilot still
> recovering from the spin :-)
>
> Although the coverage was light hearted, and obviously we had a laugh
> putting a pilot onboard. We were very serious in construction. And the point
> was to see if an unguided paper plane could make it down from 50 - 55,000ft.
>
> Ok it released at 89,500ft due to unknown circumstances.
> My local paper has picked up on it, I did try to promote balloons and

> amateur radio to the reporter, but on the grounds the reporter asked if we
> went up on the balloon, I don't hold out much hope.
>
> I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared
> to loan, would be nice to see it get more use.
>
> Steve
> G6UIM
>
>
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
> Manes
> Sent: 04 November 2010 22:24
> To: GPSL Balloon Reflector
> Subject: [GPSL] PARIS laid bare in intimate snaps . The Register
>
> Nice pix and narrative, and kudos on a difficult recovery.
>
> http://www.theregister.co.uk/2010/11/03/paris_photos/
>
> But that main payload's aerodynamics must have created some serious PBC!
>
> 73 de Mike W5VSI

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8825. RE: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 13:29:21 UTC
From: Steve D
Topic: 8820 Message: 8825

More pics and news coverage

http://forums.theregister.co.uk/forum/1/2010/11/05/paris_aerial_pics/

http://www.thisissouthdevon.co.uk/news/Paper-plane-s-spectacular-photographs
-Earth/article-2840637-detail/article.html

Might make our national news, had an agency phone me

Steve

G6UIM

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
Manes
Sent: 05 November 2010 01:04
To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] PARIS laid bare in intimate snaps . The Register

Hi Steve,

Well, you guys and the PARIS project did bring ARHAB to the attention
of - pardon - geekdom, and that's how this hobby grows. Those who
seriously ponder doing their own flights quickly learn the limits as
well as the tricks and kinks once venturing into balloonacy.

One of the tricks is that "line of sight is a magic thing", such that
even a QRPP 2m beacon is still full quieting 160 km downrange. And
that some battery chemistries survive the deep cold of the tropopause
better than other. LiSO2 primary cells are the king there, with Li-ion
hanging in down to below -15C. But the polymer in LiPO cells gets real
viscous below 0C, so the internal resistance goes way up.

Once the payload is on the deck, however, more ERP is nice to have in
order to initiate a DF towards recovery if one is way out of position
at landing.

Now, at normal ascent rates, it doesn't take much thermal insulation to
keep the sensitive bits of electronics comfortable. But during descent,
airspeed rises rapidly to upwards of 200 kph, so convective heat transfer
becomes quite effective; and further, all that cold outside air now
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times in ARHAB payloads, and may be the root cause of loss of APRS
reports during descent. And one descends thru a cloud, condensation
can form on the chilled bits.

Another cause of post-burst loss of APRS is a fragile antenna or
feedline (PVC simply shatters under stress when chilled below -30C).
That sort of failure is easy to discover upon recovery - unlike the
low temperature issues.

Murphy has plenty more tricks to play, but learning through experience is
longer lasting.

73 de Mike W5VSI

On 11/4/2010 16:49, Steve D wrote:
> Still photos from the payload will be on the site tomorrow. The pilot
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> recovering from the spin :-)
>
> Although the coverage was light hearted, and obviously we had a laugh
> putting a pilot onboard. We were very serious in construction. And the
point
> was to see if an unguided paper plane could make it down from 50 -
55,000ft.
>
> Ok it released at 89,500ft due to unknown circumstances.
> My local paper has picked up on it, I did try to promote balloons and
> amateur radio to the reporter, but on the grounds the reporter asked if we
> went up on the balloon, I don't hold out much hope.
>
> I have a 5W 2M high altitude tracker with Li-Po battery, that I am
prepared
> to loan, would be nice to see it get more use.
>
> Steve
> G6UIM
>
>
>
> -----Original Message-----
> From: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
[mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] On Behalf Of
Mike
> Manes
> Sent: 04 November 2010 22:24
> To: GPSL Balloon Reflector
> Subject: [GPSL] PARIS laid bare in intimate snaps . The Register
>
> Nice pix and narrative, and kudos on a difficult recovery.
>
> http://www.theregister.co.uk/2010/11/03/paris_photos/
>
> But that main payload's aerodynamics must have created some serious PBC!
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> 73 de Mike W5VSI

--
Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8826. RE: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 14:27:00 UTC
From: Steve D
Topic: 8820 Message: 8826
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Joe,

The plane flew about 23km, that's a straight line from release point to landing point, I very much doubt it actually flew a straight line. The payload and plane landed aprox 6km apart

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: 05 November 2010 00:01
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] PARIS laid bare in intimate snaps . The Register

how far away from the support payload landing spot was the gliders landing spot?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/4/2010 6:49 PM, Steve D wrote:

Still photos from the payload will be on the site tomorrow. The pilot still recovering from the spin :-)

Although the coverage was light hearted, and obviously we had a laugh putting a pilot onboard. We were very serious in construction. And the point was to see if an unguided paper plane could make it down from 50 - 55,000ft.

Ok it released at 89,500ft due to unknown circumstances.
My local paper has picked up on it, I did try to promote balloons and amateur radio to the reporter, but on the grounds the reporter asked if we went up on the balloon, I don't hold out much hope.

I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared to loan, would be nice to see it get more use.

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 04 November 2010 22:24
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS laid bare in intimate snaps . The Register

Nice pix and narrative, and kudos on a difficult recovery.

http://www.theregister.co.uk/2010/11/03/paris_photos/

But that main payload's aerodynamics must have created some serious PBC!

73 de Mike W5VSI

8827. Video from spinning cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 15:29:30 UTC
From: Jerry Gable
Topic: 8827 Message: 8827

We all have those sea sickspinning videos from our flights. I loaned a small video camera to a group that was doing a flight. One of the group grabbed a series of those spinning frames and used Microsoft ICE to knit them together. Here is the result http://www.flickr.com/photos/teamdroid/4936935476/

Imagine what you could do if you had decent images to start with. These were from a $20 640x480 video camera.

8828. Re: [GPSL] Video from spinning cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 15:33:24 UTC
From: Joe
Topic: 8827 Message: 8828
Attachments: 1 described; binary payloads are missing from this source WARC

I see a static image,,

where is the video?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/5/2010 10:29 AM, Jerry Gable wrote:
>
>
> We all have those sea sickspinning videos from our flights. I loaned
> a small video camera to a group that was doing a flight. One of the
> group grabbed a series of those spinning frames and used Microsoft ICE
> to knit them together. Here is the result
> http://www.flickr.com/photos/teamdroid/4936935476/
>
> Imagine what you could do if you had decent images to start with.
> These were from a $20 640x480 video camera.
>
>
>

8829. Re: [GPSL] Video from spinning cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 16:18:56 UTC
From: Jerry Gable
Topic: 8827 Message: 8829
Attachments: 1 described; binary payloads are missing from this source WARC

The video was unwatchable. The static image is made up of about 100 frames grabs from the video. Those are stitched together into one large (2265 x 1923) panoramic view.

I haven't used it but Microsoft ICE (free) takes a bunch of images and stitches them together into panoramas.

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Fri, November 5, 2010 8:33:24 AM
Subject: Re: [GPSL] Video from spinning cameras

I see a static image,,

where is the video?

Joe WB9SBD

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/5/2010 10:29 AM, Jerry Gable wrote:

>We all have those sea sickspinning videos from our flights. I
>loaned a small video camera to a group that was doing a flight. One
>of the group grabbed a series of those spinning frames and used
>Microsoft ICE to knit them together. Here is the result
>http://www.flickr.com/photos/teamdroid/4936935476/
>
>
>Imagine what you could do if you had decent images to start with.
>These were from a $20 640x480 video camera.
>

8830. Re: [GPSL] Video from spinning cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-05 19:13:21 UTC
From: Mark Conner
Topic: 8827 Message: 8830
Attachments: 1 described; binary payloads are missing from this source WARC

The frame grabber (VLC) is also freeware. http://www.videolan.org/vlc/
Link to Microsoft ICE:
http://research.microsoft.com/en-us/um/redmond/groups/ivm/ICE/

I'm going to take a whack at this with some of my 720p/60fps video. If I
get some interesting results I'll be sure to post them.

Thanks Jerry for posting this tidbit. Sure glad it's Friday so I can play
with this tomorrow.

73 de Mark N9XTN

On Fri, Nov 5, 2010 at 11:18, Jerry Gable <jerrygable@...> wrote:

> The video was unwatchable. The static image is made up of about 100 frames
> grabs from the video. Those are stitched together into one large (2265 x
> 1923) panoramic view.
>
> I haven't used it but Microsoft ICE (free) takes a bunch of images and
> stitches them together into panoramas.
>
> ------------------------------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Fri, November 5, 2010 8:33:24 AM
> *Subject:* Re: [GPSL] Video from spinning cameras
>
> I see a static image,,
>
> where is the video?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
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> grabbed a series of those spinning frames and used Microsoft ICE to knit
> them together. Here is the result
> http://www.flickr.com/photos/teamdroid/4936935476/

>
> Imagine what you could do if you had decent images to start with. These
> were from a $20 640x480 video camera.
>
>

8831. RE: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-07 20:26:54 UTC
From: Steve D
Topic: 8820 Message: 8831
Attachments: 1 described; binary payloads are missing from this source WARC

Got approached by a chap in the pub last night, who said I was part of NASA
I was going to correct him until he added Nerds Above Spanish Airspace

Thought that was funny

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve
D
Sent: 05 November 2010 14:27
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] PARIS laid bare in intimate snaps . The Register

Hi Joe,

The plane flew about 23km, that's a straight line from release point to
landing point, I very much doubt it actually flew a straight line. The
payload and plane landed aprox 6km apart

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: 05 November 2010 00:01
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] PARIS laid bare in intimate snaps . The Register

how far away from the support payload landing spot was the gliders landing
spot?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/4/2010 6:49 PM, Steve D wrote:

Still photos from the payload will be on the site tomorrow. The pilot still
recovering from the spin :-)

Although the coverage was light hearted, and obviously we had a laugh putting a pilot onboard. We were very serious in construction. And the point was to see if an unguided paper plane could make it down from 50 - 55,000ft.

Ok it released at 89,500ft due to unknown circumstances.
My local paper has picked up on it, I did try to promote balloons and amateur radio to the reporter, but on the grounds the reporter asked if we went up on the balloon, I don't hold out much hope.

I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared to loan, would be nice to see it get more use.

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 04 November 2010 22:24
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS laid bare in intimate snaps . The Register

Nice pix and narrative, and kudos on a difficult recovery.

http://www.theregister.co.uk/2010/11/03/paris_photos/

But that main payload's aerodynamics must have created some serious PBC!

73 de Mike W5VSI

8832. Re: [GPSL] PARIS laid bare in intimate snaps . The Register

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-08 02:31:07 UTC
From: Mike Manes
Topic: 8820 Message: 8832

That's a WHOLE lot more tasteful than "Need Another Seven Astronauts" making
the rounds after the Challenger disaster :=P.
73 de Mike W5VSI

On 11/7/2010 13:26, Steve D wrote:
>
>
> Got approached by a chap in the pub last night, who said I was part of NASA I
> was going to correct him until he added Nerds Above Spanish Airspace
>
> Thought that was funny
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Steve D
> *Sent:* 05 November 2010 14:27
> *To:* GPSL@yahoogroups.com
> *Subject:* RE: [GPSL] PARIS laid bare in intimate snaps . The Register
>
> Hi Joe,
>
> The plane flew about 23km, that’s a straight line from release point to
> landing point, I very much doubt it actually flew a straight line. The payload
> and plane landed aprox 6km apart
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Joe
> *Sent:* 05 November 2010 00:01
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] PARIS laid bare in intimate snaps . The Register
>
> how far away from the support payload landing spot was the gliders landing spot?
>
> Joe WB9SBD
>
>

> The Original Rolling Ball Clock
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> On 11/4/2010 6:49 PM, Steve D wrote:
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> Still photos from the payload will be on the site tomorrow. The pilot still
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> recovering from the spin :-)
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>
> Although the coverage was light hearted, and obviously we had a laugh
>
> putting a pilot onboard. We were very serious in construction. And the point
>
> was to see if an unguided paper plane could make it down from 50 - 55,000ft.
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> amateur radio to the reporter, but on the grounds the reporter asked if we
>
> went up on the balloon, I don't hold out much hope.
>
>
>
> I have a 5W 2M high altitude tracker with Li-Po battery, that I am prepared
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> to loan, would be nice to see it get more use.
>
>
>
> Steve
>
> G6UIM
>
>
>
>
>
>
>
>
> -----Original Message-----
>

> From:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com> [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
>
> Manes
>
> Sent: 04 November 2010 22:24
>
> To: GPSL Balloon Reflector
>
> Subject: [GPSL]PARIS laid bare in intimate snaps . The Register
>
>
>
> Nice pix and narrative, and kudos on a difficult recovery.
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> http://www.theregister.co.uk/2010/11/03/paris_photos/
>
>
>
> But that main payload's aerodynamics must have created some serious PBC!
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>
> 73 de Mike W5VSI
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8833. Panoramas using VLC and Microsoft ICE

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-08 04:23:39 UTC
From: Mark Conner
Topic: 8833 Message: 8833
Attachments: 3 described; binary payloads are missing from this source WARC

Attached are some sample panoramas made with VLC and Microsoft ICE, following up on tips posted on the GPSL list earlier. This was very easy to do with the two programs - you just use VLC to grab an assortment of still frames and then drag and drop them into ICE. You need some overlap and the more coverage around the 360 deg circle the better.

The originals are 12,000 pixels wide, about 8x the resolution I posted. They are also available (download photo to see full res) at http://picasaweb.google.com/mconner1/NSTAR10BFlightPhotos# (last 3 in album).

73 de Mark N9XTN

8834. Re: [KNSP] Panoramas using VLC and Microsoft ICE [3 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-08 13:28:25 UTC
From: Joe
Topic: 8833 Message: 8834
Attachments: 1 described; binary payloads are missing from this source WARC

That is pretty cool!

One of the up coming flights I was planning on using an all sky camera
(but up side down) But this is really neat!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/7/2010 10:23 PM, Mark Conner wrote:
> Attached are some sample panoramas made with VLC and Microsoft ICE,
> following up on tips posted on the GPSL list earlier. This was very
> easy to do with the two programs - you just use VLC to grab an
> assortment of still frames and then drag and drop them into ICE. You
> need some overlap and the more coverage around the 360 deg circle the
> better.
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> The originals are 12,000 pixels wide, about 8x the resolution I
> posted. They are also available (download photo to see full res) at
> http://picasaweb.google.com/mconner1/NSTAR10BFlightPhotos# (last 3 in
> album).
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> Yahoo! Groups Links
>
>
>
>
>

8835. Re: [GPSL] Panoramas using VLC and Microsoft ICE [3 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-08 14:33:02 UTC
From: L. Paul Verhage
Topic: 8833 Message: 8835

That is very good.

With luck, KU will do a morning launch to record sunrise. I'll try this technique out for that flight.

Paul

On Sun, Nov 7, 2010 at 10:23 PM, Mark Conner <mconner1@...> wrote:

> Attached are some sample panoramas made with VLC and Microsoft ICE,
> following up on tips posted on the GPSL list earlier. This was very
> easy to do with the two programs - you just use VLC to grab an
> assortment of still frames and then drag and drop them into ICE. You
> need some overlap and the more coverage around the 360 deg circle the
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> posted. They are also available (download photo to see full res) at
> http://picasaweb.google.com/mconner1/NSTAR10BFlightPhotos# (last 3 in
> album).
>
> 73 de Mark N9XTN
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

8836. Future GPSLs

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-08 15:15:51 UTC
From: L. Paul Verhage
Topic: 8836 Message: 8836

There were times in the past that it was pretty late in the season before GPSL dates and locations were announced. Not this year!

Here's the schedule as it stands now.

GPSL 2011: Colorado Springs, CO hosted by EOSS
GPSL 2012: Omaha, NE hosted by NSTAR
GPSL 2013: Pella, IA hosted by PENS

Thanks everyone. GPSL has grown to be quite the event thanks to your hard work

--
Onwards and Upwards,
Paul

8837. PARIS joins the 17-mile-high club • The R egister

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 00:10:55 UTC
From: Mike Manes
Topic: 8837 Message: 8837

Really nice pix and video over Spain.

http://www.theregister.co.uk/2010/11/05/paris_aerial_pics/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8838. Wow Google

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 04:31:03 UTC
From: Joe
Topic: 8838 Message: 8838
Attachments: 1 described; binary payloads are missing from this source WARC

Have any of you done a google search for GPSL lately?

Wow we wree never gonna be found with that anymore!

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8839. Re: [GPSL] Wow Google

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 14:30:39 UTC
From: Jerry Gable
Topic: 8838 Message: 8839
Attachments: 1 described; binary payloads are missing from this source WARC

If I am searching for something balloon related I add the word balloon to the search. GPSL Balloon his all related to this GPSL

From: Joe <nss@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Mon, November 8, 2010 9:31:03 PM
Subject: [GPSL] Wow Google

Have any of you done a google search for GPSL lately?

Wow we wree never gonna be found with that anymore!

Joe WB9SBD

--
Sig
The Original Rolling Ball Clock
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Idle-Tyme.com
http://www.idle-tyme.com

8840. Re: [GPSL] Wow Google

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 15:05:37 UTC
From: Keith Kaiser
Topic: 8838 Message: 8840

But if you search for Great Plains Super Launch, or even just super launch, lots and lots and lots come up. Additionally GPSL comes up second and fifth in my google search.

On Nov 8, 2010, at 10:31 PM, Joe wrote:

> Have any of you done a google search for GPSL lately?
>
> Wow we wree never gonna be found with that anymore!
>
> Joe WB9SBD
> --
> <CLEAN-IDLE-TYME-LOGO-100-50.jpg>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com

8841. VLC Snapshot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 16:08:07 UTC
From: Joe
Topic: 8841 Message: 8841
Attachments: 1 described; binary payloads are missing from this source WARC

Hi all.

Hey i have been trying to crop the snap shots.

I can crop the viewable window easily so only the area I want to be visible is visible.

But when i take the snapshot. it still saves the complete un cropped view. is there something I'm missing?

Joe WB9SBD
--

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http://www.idle-tyme.com

8842. Re: [GPSL] VLC Snapshot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 16:18:33 UTC
From: Mark Conner
Topic: 8841 Message: 8842
Attachments: 1 described; binary payloads are missing from this source WARC

No, that's what it does. It will be easier to snapshot the full frame, dump
them all into ICE, then crop the resulting composite.

73 de Mark N9XTN

On Tue, Nov 9, 2010 at 10:08, Joe <nss@...> wrote:

> Hi all.
>
> Hey i have been trying to crop the snap shots.
>
> I can crop the viewable window easily so only the area I want to be visible
> is visible.
>
> But when i take the snapshot. it still saves the complete un cropped
> view. is there something I'm missing?
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

8843. Pella

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 16:27:01 UTC
From: L. Paul Verhage
Topic: 8843 Message: 8843

Pella is excited about getting on the near space band wagon.

http://www.towncriernews.com/pages/news/nearspace110810/nearspace110810.html
--
Onwards and Upwards,
Paul

8844. Re: [GPSL] VLC Snapshot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 16:45:28 UTC
From: Joe
Topic: 8841 Message: 8844
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Mark,

Yeah, tried that but the one corner is confusing the stitching process.

I'm working on a video from our last flight.
http://www.youtube.com/watch?v=h3nx_M-dfYw
the mirror was slightly too small and the lower left corner sneaks in.
And thats confusing the stitching process.

I will try to batch crop all the images next.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/9/2010 10:18 AM, Mark Conner wrote:
>
>
> No, that's what it does. It will be easier to snapshot the full
> frame, dump them all into ICE, then crop the resulting composite.
>
> 73 de Mark N9XTN
>
> On Tue, Nov 9, 2010 at 10:08, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> Hi all.
>
> Hey i have been trying to crop the snap shots.
>
> I can crop the viewable window easily so only the area I want to
> be visible is visible.
>
> But when i take the snapshot. it still saves the complete un
> cropped view. is there something I'm missing?
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com

> http://www.idle-tyme.com
>
>
>
>
>

8845. Stiched Picture

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 17:26:09 UTC
From: Joe
Topic: 8845 Message: 8845
Attachments: 1 described; binary payloads are missing from this source WARC

That program ICE is pretty amazing!

I tried to see what it would do with a series of images where the scale is constantly changing.

What i did was take from the downward looking view, right from liftoff, to 4K feet. so Buildings at 30 seconds into the flight, and then at 4 K will be greatly different in size.

It when stitching automatically re sized the images so they fit together corectly.

I saved the one i made in the photos folder on the group site under the NSS folder.

The photos near the top are the launch site images and of course the buildings were larger than the images them selves. but after stitching it reduced them all. this was 250 images.

Joe WB9SBD
--

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http://www.idle-tyme.com

8846. Another Stiched Image

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 19:26:37 UTC
From: Joe
Topic: 8846 Message: 8846
Attachments: 1 described; binary payloads are missing from this source WARC

This is even cooler, i was able to take the same pictures,, have them
stitch together, but NOT re scale them!

so the left is at like 50 feet off the ground, and the right is at 4000
feet this is soo cool!

http://groups.yahoo.com/group/GPSL/photos/album/178570053/pic/1043648047/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc

Joe WB9SBD
--

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Idle-Tyme.com
http://www.idle-tyme.com

8847. Re: [GPSL] Another Stiched Image

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 21:13:22 UTC
From: Jerry Gable
Topic: 8846 Message: 8847
Attachments: 1 described; binary payloads are missing from this source WARC

Now you just need to add the 360 degree spin all the way up to black space. I guess I am going to have to get with the ICE bandwagon and try it myself. It looks like there is some interesting things to be done.

From: Joe <nss@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Tue, November 9, 2010 12:26:37 PM
Subject: [GPSL] Another Stiched Image

This is even cooler, i was able to take the same pictures,, have them stitch together, but NOT re scale them!

so the left is at like 50 feet off the ground, and the right is at 4000 feet this is soo cool!

http://groups.yahoo.com/group/GPSL/photos/album/178570053/pic/1043648047/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc

Joe WB9SBD

--
Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8848. Re: [GPSL] Another Stiched Image

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-09 21:42:24 UTC
From: Rodney Sparks
Topic: 8846 Message: 8848
Attachments: 1 described; binary payloads are missing from this source WARC

Alright, that's the coolest image I've seen in a long time... Thanks for
sharing!

-Rodney
rodney@...

On Tue, Nov 9, 2010 at 11:26 AM, Joe <nss@...> wrote:

> This is even cooler, i was able to take the same pictures,, have them
> stitch together, but NOT re scale them!
>
> so the left is at like 50 feet off the ground, and the right is at 4000
> feet this is soo cool!
>
>
> http://groups.yahoo.com/group/GPSL/photos/album/178570053/pic/1043648047/view?picmode=la
rge&mode=tn&order=ordinal&start=1&dir=asc
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

8849. RE: [GPSL] PARIS joins the 17-mile-high club . The Regis ter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 16:48:18 UTC
From: Steve D
Topic: 8837 Message: 8849

Been away from my email.
If you look on youtube there is the flight video in 10 parts, about 1 hour 30 mins worth. Sadly the camera packed up just after balloon burst

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 09 November 2010 00:11
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS joins the 17-mile-high club . The Register

Really nice pix and video over Spain.

http://www.theregister.co.uk/2010/11/05/paris_aerial_pics/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

8850. 19 Mile Club?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 16:52:11 UTC
From: L. Paul Verhage
Topic: 8850 Message: 8850

This talk about Paris joining the 17 mile club makes me think ARHAB should have a 19 mile club, honoring flights that reach 100,000 feet and higher.

--
Onwards and Upwards,
Paul

8851. Re: [GPSL] 19 Mile Club?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 17:30:37 UTC
From: Mike Manes
Topic: 8850 Message: 8851

Or maybe a more coveted 20 Mile High Club, for those of us who have busted
105,600 ft MSL?
73 de Mike W5VSI

On 11/10/2010 09:52, L. Paul Verhage wrote:
>
>
> This talk about Paris joining the 17 mile club makes me think ARHAB should
> have a 19 mile club, honoring flights that reach 100,000 feet and higher.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8852. Re: [GPSL] 19 Mile Club?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 17:39:02 UTC
From: L. Paul Verhage
Topic: 8850 Message: 8852

That's better.

Paul

On Wed, Nov 10, 2010 at 11:30 AM, Mike Manes <mrmanes@...> wrote:

> Or maybe a more coveted 20 Mile High Club, for those of us who have busted
> 105,600 ft MSL?
> 73 de Mike W5VSI
>
>
> On 11/10/2010 09:52, L. Paul Verhage wrote:
>
>>
>>
>> This talk about Paris joining the 17 mile club makes me think ARHAB should
>> have a 19 mile club, honoring flights that reach 100,000 feet and higher.
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>>
>>
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

--
Onwards and Upwards,
Paul

8853. Re: [GPSL] 19 Mile Club?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 17:40:56 UTC
From: Jerry Gable
Topic: 8850 Message: 8853

Maybe the Score Mile High Club. After all a score = 20.

_____
From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Wed, November 10, 2010 10:39:02 AM
Subject: Re: [GPSL] 19 Mile Club?

That's better.

Paul

On Wed, Nov 10, 2010 at 11:30 AM, Mike Manes <mrmanes@...> wrote:

Or maybe a more coveted 20 Mile High Club, for those of us who have busted
>105,600 ft MSL?
>73 de Mike W5VSI
>
>
>On 11/10/2010 09:52, L. Paul Verhage wrote:
>
>
>>
>>This talk about Paris joining the 17 mile club makes me think ARHAB should
>>have a 19 mile club, honoring flights that reach 100,000 feet and higher.
>>
>>--
>>Onwards and Upwards,
>>Paul
>>
>>
>>
>>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

--
Onwards and Upwards,
Paul

8854. Next KU Launch

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 18:16:08 UTC
From: L. Paul Verhage
Topic: 8854 Message: 8854

I posted information on the new KU launch. We plan to lift off at 5:15 AM with a 3000 gram balloon in the hopes of recording sunrise in near space. I'll send up al least one video camera and will try to make a panarama out of the footage.

Thanks Mark for letting us know about this.

--
Onwards and Upwards,
Paul

8855. HYSPLIT outage this weekend

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 19:19:04 UTC
From: Mark Conner
Topic: 8855 Message: 8855

This outage will affect those of you who use the NSV online balloon prediction program, from Friday afternoon to Monday morning.

73 de Mark N9XTN

HYSPLIT Users:

Due to a planned power outage the READY web site will be unavailable from approximately 4 pm EST (21 UTC) on Friday, November 12 to 8 am EST (13 UTC) on Monday, November 15. All forecast data from the weekend will be missing from READY on Monday until new forecasts for Monday are received.

The EDAS and GDAS archives will include the data from the weekend once we are able to update the archives from NCEP.

Thank you for your continued support.
NOAA ARL HYSPLIT Development Team

8856. BASE 55

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 19:53:00 UTC
From: BASE
Topic: 8856 Message: 8856

Dear friends,

BASE 55 is preparing for launch on Thursday, November 11. Launch Time will be about 1800 UTC (1 pm Eastern Standard Time). The wind pattern has shifted the launch site to the east. We will release from the Cascade High School complex (39.66 N, 86.58 W) near Clayton, Indiana.

The 1200 gram balloon will carry about 10 pounds to a burst altitude of 90 kft. Target ascent rate is 1000 ft/min. Current landing prediction just south of Charlottesville, Indiana (39.76N, 85.61W).

Tracking radios include the 900 MHz spread spectrum system and APRS on 144.39 MHz using W9YJ-11.

Thanks for your support,
Howard, KC9QBN
BASE-DePauw

8857. RE: [GPSL] PARIS joins the 17-mile-high club . The Regis ter

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-10 22:46:21 UTC
From: Steve D
Topic: 8837 Message: 8857

Hi
Composite pic now available
http://www.theregister.co.uk/2010/11/10/paris_composite/

By the way I was trying to promote ballooning and Amateur Radio, so if any of you want to post comments that would be good.
I am not a journalist just a chap with a licence for amateur radio that got involved.

Steve
G6UIM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 09 November 2010 00:11
To: GPSL Balloon Reflector
Subject: [GPSL] PARIS joins the 17-mile-high club . The Register

Really nice pix and video over Spain.

http://www.theregister.co.uk/2010/11/05/paris_aerial_pics/
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

8858. PARIS Makes the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-11 12:46:31 UTC
From: Steve D
Topic: 8837 Message: 8858

Getting some serious media coverage now, big story in 3 national papers and being filmed for national TV news.

Doing my best to promote amateur radio and ballooning.

Steve

G6UIM

8859. UAV

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-11 14:34:06 UTC
From: Joe
Topic: 8859 Message: 8859
Attachments: 1 described; binary payloads are missing from this source WARC

Pretty cool,

http://www.youtube.com/watch?v=B-xVy2E1sT4&
--

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Idle-Tyme.com
http://www.idle-tyme.com

8860. RE: [GPSL] PARIS Makes the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-11 15:45:17 UTC
From: Steve D
Topic: 8837 Message: 8860

For those interested

http://www.bbc.co.uk/news/11734434

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 11 November 2010 12:47
To: GPSL@yahoogroups.com
Subject: [GPSL] PARIS Makes the news

Getting some serious media coverage now, big story in 3 national papers and being filmed for national TV news.

Doing my best to promote amateur radio and ballooning.

Steve

G6UIM

8861. BASE 55 completed

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-11 22:48:39 UTC
From: BASE
Topic: 8861 Message: 8861

Dear friends,

BASE 55 was completed today. Launch was delayed by the need to produce a new DB-9 power plug for the 900 MHz radio. Launch did occur at 1825 UTC from the Cascade Schools, Clayton, Indiana (39.66N, 86.51W). Carried 10.25 pounds on the 1200 gram Helium balloon. Landing in a small corn field just south of County Road 200s (Weber Rd.) and west of State Road 9 just south of Greenfield, Indiana(39.75N, 85.76 W). Landowner was home and gave permission to recover. We had a visual on the descent from more than 6000 feet agl.

The APRS radio was not quite as effective as on previous flights. All other systems appeared to work without problem. I apologize for beaconing the ground test of the APRS radio to aprs.fi.

If we had kept the launch site in Greencastle, it appears that we would have landed in the interchange between I-65 and I-465 on the south side of the Indianapolis metropolitan area. We did fly over the Indianapolis International Airport for about five at altitudes ranging from 37-41 kft.

Our flight operations are entering the annual pause for the "Explosively propelled projectiles at Bambi and friends" season in Indiana. We may fly again in early December depending on the data collected during the flight from the Geiger counters. The data run will continue (for ground level comparison) for another six to ten hours.

Thanks again for your support,
Howard, KC9QBN
BASE-DePauw

8862. TV Tonight on FOX

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-11 23:10:01 UTC
From: Joe
Topic: 8862 Message: 8862
Attachments: 1 described; binary payloads are missing from this source WARC

I'm a fan of a strange show called Fringe.

And tonight show caught my eye,

http://tvlistings.zap2it.com/tv/fringe-6995-khz/EP010591030053?

Fringe' : 6995 kHz

NEW

Fifteen people along the Eastern seaboard suffer retrograde amnesia
after listening to their shortwave radios on the same frequency; the
anticipation of Olivia's return escalates.

Thought ya all might like to know he he he

Joe WB9SBD
--

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http://www.idle-tyme.com

8863. RE: [GPSL] PARIS Makes the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-12 17:51:40 UTC
From: Steve D
Topic: 8837 Message: 8863

BBC National News clip

http://www.youtube.com/watch?v=9vjOq7jYZxc

ITV Local News Clip

http://www.youtube.com/watch?v=uvI6DBCu73E

I have another BBC clip to do and a sky news clip also

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 11 November 2010 15:45
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] PARIS Makes the news

For those interested

http://www.bbc.co.uk/news/11734434

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 11 November 2010 12:47
To: GPSL@yahoogroups.com
Subject: [GPSL] PARIS Makes the news

Getting some serious media coverage now, big story in 3 national papers and being filmed for national TV news.

Doing my best to promote amateur radio and ballooning.

Steve

G6UIM

8864. Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-12 18:28:07 UTC
From: Joe
Topic: 8864 Message: 8864
Attachments: 1 described; binary payloads are missing from this source WARC

I wanted to show someone a video of one of our balloon flights.

But he doesn't have access to the net at work and dialup at home so that like kills the possibiluity of watching you tube.

So the canon camera makes .avi files when it's recording. Si i took my finished video, saved it as an .avi, and then placed it on the SD card, in hopeing that I can then play him the video using the camera.

But it doesn't show up.

anyone have an idea as to why?

Joe WB9SBD
--

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8865. RE: [GPSL] Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-12 22:20:52 UTC
From: Rick von Glahn
Topic: 8864 Message: 8865
Attachments: 1 described; binary payloads are missing from this source WARC

I was trying to figure this out a few years back.

I thought it might be related to the thumbnail issue. If you format your card, take one movie and then dump the results to the computer you'll have a movie named say, MVI_1234.AVI and also a second file MVI_1234.THM. The THM file is a thumbnail of the movie which is displayed inside the camera so you can see a visual representation of the movie clip and select and play it. So, I took an old movie recorded on a Canon camera, created a THM file (it's a JPG with a different extension) from the still frame of the beginning of the movie. Loaded both into the camera and voila, nothing. The thumbnail showed up as a question mark and if you selected it, you did get to see the image inside the thm file, but you could not click it to play.

I did some research and as you might imagine, this was a popular topic (still is). Everyone was not having any success taking movies and loading them back into the camera for playback. Folks even called Canon tech support and they had no answers. The general consensus is that the camera writes some type of semi-proprietary EXIF data to the THM file that links the tHM to the AVI and allows the playing of the video.

Perhaps someone has come up with the solution. I looked but was unable to find any solution on a fairly cursory exam of google results.

Too bad as a camera is the ideal platform to play back movie clips. And, it seems ridiculous that I can't take a video out of my camera, and place it back into that very same camera a minute later without the THM file and not be able to play it. If I were canon I'd come up with some little in-camera utility that would look at videos that had corrupt THM files or missing THM files and rebuild them so you could view your vids.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Friday, November 12, 2010 11:28 AM
To: gpsl
Subject: [GPSL] Canon Cameras

I wanted to show someone a video of one of our balloon flights.

But he doesn't have access to the net at work and dialup at home so that like kills the possibiluity of watching you tube.

So the canon camera makes .avi files when it's recording. Si i took my finished video, saved it as an .avi, and then placed it on the SD card, in hopeing that I can then play him the video using the camera.

But it doesn't show up.

anyone have an idea as to why?

Joe WB9SBD

--

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<http://www.idle-tyme.com> http://www.idle-tyme.com

8866. Re: [GPSL] Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-12 23:09:59 UTC
From: Joe
Topic: 8864 Message: 8866
Attachments: 2 described; binary payloads are missing from this source WARC

I did exactly the very same step by step logic procedure you described
below.

I even ripped apart a thm file in notepad just to see what was in it.
and some letters and lots of small squares!

Grrr!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/12/2010 4:20 PM, Rick von Glahn wrote:
>
>
> I was trying to figure this out a few years back.
>
> I thought it might be related to the thumbnail issue. If you format
> your card, take one movie and then dump the results to the computer
> you'll have a movie named say, MVI_1234.AVI and also a second file
> MVI_1234.THM. The THM file is a thumbnail of the movie which is
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> the movie clip and select and play it. So, I took an old movie
> recorded on a Canon camera, created a THM file (it's a JPG with a
> different extension) from the still frame of the beginning of the
> movie. Loaded both into th! ! e camera and voila, nothing. The
> thumbnail showed up as a question mark and if you selected it, you did
> get to see the image inside the thm file, but you could not click it
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>
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> that the camera writes some type of semi-proprietary EXIF data to the
> THM file that links the tHM to the AVI and allows the playing of the
> video.
>
> Perhaps someone has come up with the solution. I looked but was unable
> to find any solution on a fairly cursory exam of google results.
>
> Too bad as a camera is the ideal platform to play back movie clips.

> And, it seems ridiculous that I can't take a video out of my camera,
> and place it back into that very same camera a minute later without
> the THM file and not be able to play it. If I were canon I'd come up
> with some little in-camera utility that would look at videos that had
> corrupt THM files or missing THM files and rebuild them so you could
> view your vids.
>
> 73 -- Rick
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *Joe
> *Sent:* Friday, November 12, 2010 11:28 AM
> *To:* gpsl
> *Subject:* [GPSL] Canon Cameras
>
> I wanted to show someone a video of one of our balloon flights.
>
> But he doesn't have access to the net at work and dialup at home so
> that like kills the possibiluity of watching you tube.
>
> So the canon camera makes .avi files when it's recording. Si i took
> my finished video, saved it as an .avi, and then placed it on the SD
> card, in hopeing that I can then play him the video using the camera.
>
> But it doesn't show u! ! p.
>
> anyone have an idea as to why?
>
> Joe WB9SBD
>
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
>
>

8867. RE: [GPSL] PARIS Makes the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-12 23:44:54 UTC
From: Steve D
Topic: 8837 Message: 8867

CNN covered as well. And a national paper here just tried it

http://tinyurl.com/2vhj5le very funny

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 12 November 2010 17:52
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] PARIS Makes the news

BBC National News clip

http://www.youtube.com/watch?v=9vjOq7jYZxc

ITV Local News Clip

http://www.youtube.com/watch?v=uvI6DBCu73E

I have another BBC clip to do and a sky news clip also

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 11 November 2010 15:45
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] PARIS Makes the news

For those interested

http://www.bbc.co.uk/news/11734434

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 11 November 2010 12:47
To: GPSL@yahoogroups.com
Subject: [GPSL] PARIS Makes the news

Getting some serious media coverage now, big story in 3 national papers and being filmed for national TV news.

Doing my best to promote amateur radio and ballooning.

Steve

G6UIM

8868. Re: [GPSL] PARIS Makes the news

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 01:59:13 UTC
From: Mike Manes
Topic: 8837 Message: 8868

Kudos on your 15 mins of fame, Steve! Great press, indeed!
73 de Mike W5VSI

On 11/12/2010 10:51, Steve D wrote:
>
>
> BBC National News clip
>
> http://www.youtube.com/watch?v=9vjOq7jYZxc
>
> ITV Local News Clip
>
> http://www.youtube.com/watch?v=uvI6DBCu73E
>
> I have another BBC clip to do and a sky news clip also
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Steve D
> *Sent:* 11 November 2010 15:45
> *To:* GPSL@yahoogroups.com
> *Subject:* RE: [GPSL] PARIS Makes the news
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> For those interested
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> http://www.bbc.co.uk/news/11734434
>
> Steve
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> G6UIM
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> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Steve D
> *Sent:* 11 November 2010 12:47
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] PARIS Makes the news
>
> Getting some serious media coverage now, big story in 3 national papers and
> being filmed for national TV news.
>
> Doing my best to promote amateur radio and ballooning.
>
> Steve
>

> G6UIM
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8869. Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 16:01:12 UTC
From: jjdemeyer
Topic: 8869 Message: 8869

Flight Track Release 1.0.3 is now available.

In this release, I added a field for an alternative call sign, and changed the real time prediction to use ascent rate as calculated during the flight. Lastly, Flight Track can export both predicted flight paths and actual flight paths to a GPX format. Flight Track is a MapPoint add-in and is available here:

http://www.surfingsatellites.orgsurfingsatellites.aspx?Page=FlightTrack.Download

The Add-In installs with sample flight data so you can immediately evaluate its primary functions. For more information, I invite you to review the Flight Track on line Help at

http://www.surfingsatellites.org/flighttrackhelp/fthelpcontent.htm

Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback\&ContactSetUp=Feedback

Joe DeMeyer
www.surfingsatellites.org

8870. Re: [GPSL] Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 16:13:10 UTC
From: Jerry Gable
Topic: 8869 Message: 8870

Joe,
I have been going to try your program, it looks very interesting. I guess I need to go buy a copy of MapPoint now:)

One question, can you get input from the internet (iGate) or does it only work from a direct radio connection?

Jerry

From: jjdemeyer <jjdemeyer@...>
To: GPSL@yahoogroups.com
Sent: Sat, November 13, 2010 9:01:12 AM
Subject: [GPSL] Flight Track Release 1.0.3

Flight Track Release 1.0.3 is now available.

In this release, I added a field for an alternative call sign, and changed the real time prediction to use ascent rate as calculated during the flight. Lastly, Flight Track can export both predicted flight paths and actual flight paths to a GPX format. Flight Track is a MapPoint add-in and is available here:

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Feedback and suggestions are welcome here

http://www.surfingsatellites.org/surfingsatellites.aspx?Page=FlightTrackFeedback\&ContactSetUp=Feedback

Joe DeMeyer
www.surfingsatellites.org

8871. RE: [GPSL] Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 16:38:28 UTC
From: DON FRASER
Topic: 8869 Message: 8871

There is a forward slash missing in the URL:, so try:
http://www.surfingsatellites.org/surfingsatellites.aspx/?Page=FlightTrack.Download

Don WA9WWS

To: GPSL@yahoogroups.com
From: jerrygable@...
Date: Sat, 13 Nov 2010 08:13:10 -0800
Subject: Re: [GPSL] Flight Track Release 1.0.3

Joe,
I have been going to try your program, it looks very interesting. I guess I need to go buy a copy of MapPoint now:)

One question, can you get input from the internet (iGate) or does it only work from a direct radio connection?

Jerry

From: jjdemeyer <jjdemeyer@...>
To: GPSL@yahoogroups.com
Sent: Sat, November 13, 2010 9:01:12 AM
Subject: [GPSL] Flight Track Release 1.0.3

Flight Track Release 1.0.3 is now available.

In this release, I added a field for an alternative call sign, and changed the real time prediction to use ascent rate as calculated during the flight. Lastly, Flight Track can export both predicted flight paths and actual flight paths to a GPX format. Flight Track is a MapPoint add-in and is available here:

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Joe DeMeyer
www.surfingsatellites.org

8872. Re: Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 17:06:55 UTC
From: jjdemeyer
Topic: 8869 Message: 8872

Sorry about that - thanks for catching this!

Joe

--- In GPSL@yahoogroups.com, DON FRASER <wa9wws@...> wrote:
>
>
> There is a forward slash missing in the URL:, so try:
http://www.surfingsatellites.org/surfingsatellites.aspx/?Page=FlightTrack.Download
>
> Don WA9WWS
>
>
>
> To: GPSL@yahoogroups.com
> From: jerrygable@...
> Date: Sat, 13 Nov 2010 08:13:10 -0800
> Subject: Re: [GPSL] Flight Track Release 1.0.3
>
>
>
>
>
>
>
>
>
>
> Joe,
> I have been going to try your program, it looks very interesting. I guess I need to go
buy a copy of MapPoint now:)
>
> One question, can you get input from the internet (iGate) or does it only work from a
direct radio connection?
>
> Jerry
>
>
>
>
>
>
> From: jjdemeyer <jjdemeyer@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, November 13, 2010 9:01:12 AM
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>

>
> Flight Track Release 1.0.3 is now available.
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>
> Joe DeMeyer
> www.surfingsatellites.org
>

8873. Re: Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 17:09:32 UTC
From: jjdemeyer
Topic: 8869 Message: 8873

Hello Jerry!

Thanks for asking!

I have had a couple of requests for alternative data source. In the next release of Flight Track, I am planning to provide more flexibility of data sources. Presently, Flight Track accepts direct radio connection only.

Joe

--- In GPSL@yahoogroups.com, Jerry Gable <jerrygable@...> wrote:
>
> Joe,
> I have been going to try your program, it looks very interesting. I guess I
> need to go buy a copy of MapPoint now:)
>
> One question, can you get input from the internet (iGate) or does it only work
> from a direct radio connection?
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> Jerry
>
>
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>
>
> _____
> From: jjdemeyer <jjdemeyer@...>
> To: GPSL@yahoogroups.com
> Sent: Sat, November 13, 2010 9:01:12 AM
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>
>
>
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> Feedback and suggestions are welcome here
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>
>
> Joe DeMeyer
> www.surfingsatellites.org
>

8874. Re: [GPSL] Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 19:58:01 UTC
From: Joe
Topic: 8864 Message: 8874
Attachments: 3 described; binary payloads are missing from this source WARC

Just got this in an e mail, anyone wish to try it and see if it works,?

THM is video thumbnail and it is required to play video in camera.
AVI is not an encoding, this is just container format.
You can have MPEG, MJPEG or many other encodings inside of it.
Camera can playback only MJPEG (motion jpeg) encoded data.

So you will need video editor capable to save video stream into MJPEG
encoded AVI, with WAV (PCM uncompressed) sound track.
Video should have same resolution as original.
THM is just a JPEG with changed extension, so you can save any frame of
video to JPEG and change extension to THM (there may be some problems
with EXIF) or use THM preview from any video recorded by your camera.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/12/2010 5:09 PM, Joe wrote:
> I did exactly the very same step by step logic procedure you described
> below.
>
> I even ripped apart a thm file in notepad just to see what was in it.
> and some letters and lots of small squares!
>
> Grrr!
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/12/2010 4:20 PM, Rick von Glahn wrote:
>>
>> I was trying to figure this out a few years back.
>>
>> I thought it might be related to the thumbnail issue. If you format
>> your card, take one movie and then dump the results to the computer
>> you'll have a movie named say, MVI_1234.AVI and also a second file
>> MVI_1234.THM. The THM file is a thumbnail of the movie which is

>> displayed inside the camera so you can see a visual representation of
>> the movie clip and select and play it. So, I took an old movie
>> recorded on a Canon camera, created a THM file (it's a JPG with a
>> different extension) from the still frame of the beginning of the
>> movie. Loaded both into th! ! e camera and voila, nothing. The
>> thumbnail showed up as a question mark and if you selected it, you
>> did get to see the image inside the thm file, but you could not click
>> it to play.
>>
>> I did some research and as you might imagine, this was a popular
>> topic (still is). Everyone was not having any success taking movies
>> and loading them back into the camera for playback. Folks even called
>> Canon tech support and they had no answers. The general consensus is
>> that the camera writes some type of semi-proprietary EXIF data to the
>> THM file that links the tHM to the AVI and allows the playing of the
>> video.
>>
>> Perhaps someone has come up with the solution. I looked but was
>> unable to find any solution on a fairly cursory exam of google results.
>>
>> Too bad as a camera is the ideal platform to play back movie clips.
>> And, it seems ridiculous that I can't take a video out of my camera,
>> and place it back into that very same camera a minute later without
>> the THM file and not be able to play it. If I were canon I'd come up
>> with some little in-camera utility that would look at videos that had
>> corrupt THM files or missing THM files and rebuild them so you could
>> view your vids.
>>
>> 73 -- Rick
>>
>> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>> Of *Joe
>> *Sent:* Friday, November 12, 2010 11:28 AM
>> *To:* gpsl
>> *Subject:* [GPSL] Canon Cameras
>>
>> I wanted to show someone a video of one of our balloon flights.
>>
>> But he doesn't have access to the net at work and dialup at home so
>> that like kills the possibiluity of watching you tube.
>>
>> So the canon camera makes .avi files when it's recording. Si i
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>> the SD card, in hopeing that I can then play him the video using the
>> camera.
>>
>> But it doesn't show u! ! p.
>>
>> anyone have an idea as to why?
>>

>> Joe WB9SBD
>>
>> --
>>
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>>

8875. Re: [GPSL] Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-13 23:23:35 UTC
From: Bruce Coates
Topic: 8869 Message: 8875

Hi Joe

Looks great. I get quite a few errors when Reviewing the flights at 1 packet per second. It's much more pronounced with MapPoint 2009 than with 2004. All the errors seem to indicate that MapPoint isn't able to plot the data quickly enough which makes sense since 2004 runs more quickly than 2009. Simply slowing the replay rate down to 2 or 3 seconds per packet is all it takes to make the errors stop.

I still have to toss our 2010 SABRE flight data into the program to see how it compares with "real life". All I need to do is figure out how to cram a full time job plus time for family and friends and time for hobbies into a mere 24x7 week. Maybe I could stop sleeping. ....

73, Bruce
VE5BNC

8876. Re: [GPSL] Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-14 00:40:48 UTC
From: Joe
Topic: 8864 Message: 8876
Attachments: 4 described; binary payloads are missing from this source WARC

I found a program, that tells you what actual type of file is inside an
AVI file.

And the canon indeed does make an MJPG.

Whereas, my AVI that is outputted from windows movie maker is DVSD.

i have been looking for a program that can convert some type of file to
a MJPG file.

but haven't had any luck as of yet.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/13/2010 1:58 PM, Joe wrote:
> Just got this in an e mail, anyone wish to try it and see if it works,?
>
> THM is video thumbnail and it is required to play video in camera.
> AVI is not an encoding, this is just container format.
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> So you will need video editor capable to save video stream into MJPEG
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> Video should have same resolution as original.
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>>> I thought it might be related to the thumbnail issue. If you format
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>>> MVI_1234.THM. The THM file is a thumbnail of the movie which is
>>> displayed inside the camera so you can see a visual representation
>>> of the movie clip and select and play it. So, I took an old movie
>>> recorded on a Canon camera, created a THM file (it's a JPG with a
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>>> movie. Loaded both into th! ! e camera and voila, nothing. The
>>> thumbnail showed up as a question mark and if you selected it, you
>>> did get to see the image inside the thm file, but you could not
>>> click it to play.
>>>
>>> I did some research and as you might imagine, this was a popular
>>> topic (still is). Everyone was not having any success taking movies
>>> and loading them back into the camera for playback. Folks even
>>> called Canon tech support and they had no answers. The general
>>> consensus is that the camera writes some type of semi-proprietary
>>> EXIF data to the THM file that links the tHM to the AVI and allows
>>> the playing of the video.
>>>
>>> Perhaps someone has come up with the solution. I looked but was
>>> unable to find any solution on a fairly cursory exam of google results.
>>>
>>> Too bad as a camera is the ideal platform to play back movie clips.
>>> And, it seems ridiculous that I can't take a video out of my camera,
>>> and place it back into that very same camera a minute later without
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>>> 73 -- Rick
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>>> Of *Joe
>>> *Sent:* Friday, November 12, 2010 11:28 AM
>>> *To:* gpsl
>>> *Subject:* [GPSL] Canon Cameras
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>>> I wanted to show someone a video of one of our balloon flights.
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>>> But he doesn't have access to the net at work and dialup at home so
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>>> Joe WB9SBD
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>>>
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>>>

8877. Re: Flight Track Release 1.0.3

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-14 01:56:09 UTC
From: jjdemeyer
Topic: 8869 Message: 8877

Thanks, Bruce!

I have seen MapPoint 2004 get slow at fast Review rates as well. Thanks for the data point on MP 2009.

As you have seen, slowing the Review rate helps. I did try some simple things in this release to address this. I probably got spoiled with a newer laptop. For the next release, I expect to address this more; I want to determine if there is some optimization I can do.

Another thing you might try is turning off the real time prediction at least while reviewing. Without the real time prediction, Flight Track does not have to calculate the predicted path or display it.

Joe

--- In GPSL@yahoogroups.com, Bruce Coates <bruce.coates@...> wrote:
>
> Hi Joe
>
> Looks great. I get quite a few errors when Reviewing the flights at 1 packet per second. Itâ□□s much more pronounced with MapPoint 2009 than with 2004. All the errors seem to indicate that MapPoint isnâ□□t able to plot the data quickly enough which makes sense since 2004 runs more quickly than 2009. Simply slowing the replay rate down to 2 or 3 seconds per packet is all it takes to make the errors stop.
>
> I still have to toss our 2010 SABRE flight data into the program to see how it compares with â□□real lifeâ□□. All I need to do is figure out how to cram a full time job plus time for family and friends and time for hobbies into a mere 24x7 week. Maybe I could stop sleeping. ....
>
> 73, Bruce
> VE5BNC
>

8878. KU and WU Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-14 04:51:27 UTC
From: L. Paul Verhage
Topic: 8878 Message: 8878

The KU and Washburn flight reached 113,000 feet. We got some photos and a 1GB video of the entire flight, including sunrise at around100,000 feet and the earth's shadow. We can see Venus above the dawn.

The GPS lost lock for 10 minutes on descent, Since the burst happened at 113,000 feet, I wonder if the parachute was giving us some problems with choatic descent.

The other problem was mud. It rained yesterday. The winds were high enough that the payload was blown 1/8 miles across a very muddy field.

I'll update by webpage shortly. I'm looking forward to makling a panaorma of dawn.

--
Onwards and Upwards,
Paul

8879. Re: [GPSL] KU and WU Flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-14 04:54:32 UTC
From: Mike Manes
Topic: 8878 Message: 8879

If the video reveals PBC, vent the 'chute well and dump the latex ASAP.
That might help. Making the payload enclosure look like a low-drag bomb
also helps.
73 de Mike W5VSI

On 11/13/2010 21:51, L. Paul Verhage wrote:
>
>
> The KU and Washburn flight reached 113,000 feet. We got some photos and a 1GB
> video of the entire flight, including sunrise at around100,000 feet and the
> earth's shadow. We can see Venus above the dawn.
> The GPS lost lock for 10 minutes on descent, Since the burst happened at
> 113,000 feet, I wonder if the parachute was giving us some problems with
> choatic descent.
> The other problem was mud. It rained yesterday. The winds were high enough
> that the payload was blown 1/8 miles across a very muddy field.
> I'll update by webpage shortly. I'm looking forward to makling a panaorma of
> dawn.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8880. Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 00:48:28 UTC
From: Jerry Gable
Topic: 8880 Message: 8880
Attachments: 2 described; binary payloads are missing from this source WARC

I finally have the data on the differential pressure during a flight. This was a 1000 gram balloon. The ascent was about 1100 Ft/Sec with a burst altitude of 87,000 feet.

The pressure and temperature was measured at the end of a tube that went about 20 inches into the balloon. The tube fed the pressure to a differential pressure transducer outside the neck of the balloon.

As expected there was a peak pressure as the balloon started to inflate. This quickly started to drop off as the balloon inflated as expected.

At launch the pressure suddenly dropped 0.003 PSI. I suspect that was due to the acceleration possibly on the actual transducer. If anyone has another explanation I would love to here it.

Again as expected the pressure dropped as the diameter increased.

As the balloon approached burst the pressure did increase as expected. The increase from the minimum was about 0.008 PSI. I don't think we can judge how this compairs to the initial peak because of the offset during Ascent.

The temperature was probably as expected. During fill the internal temp was a little lower than the outside temp which can be explained by the cooling from the helium pressure change. Once in flight the internal temperature lags a little but not by a significant amount.

I think some other groups measured internal pressures and would love to know how these compared.

Graphs should be linked to this email.

Jerry

8881. Re: [GPSL] Internal Balloon Temp and Pressure during flight [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 02:19:32 UTC
From: Mike Manes
Topic: 8880 Message: 8881

Hi Jerry,

Slick work! That pressure rise preceding burst could be used to operate a dump valve to make a latex float or to cut it away before it has a chance to foul the 'chute or payload string.

Re the pressure drop at launch: As I've observed before, it's possible that you were getting some "pitot tube" effects from airflow pushing into the ambient side of your differential transducer. This is a problem that aircraft makers have to deal with in locating their static pressure ports on the fuselage. That port is used for the altimeter, airspeed indicator and rate of climb indicator, and thus should present the ambient static pressure, regardless of airspeed. It does take some "cut and try" to get it right. This is why flight test models of new aircraft are commonly equipped with a long pitot-static probe extending some distance forward from the nose of the aircraft; that probe has proven accuracy and is independent from the test aircraft's aerodynamics. And it's used as the reference for locating both the pitot tube and static ports on the production aircraft.

The airflow at the bottom of an ascending balloon can be expected to look pretty weird. It might be possible to escape some of those effects by running a long tube to a horizontal-facing static port well below the balloon and payload string. But that tube would almost surely get twisted up in the lift line :=(.

73 de Mike W5VSI

On 11/14/2010 17:48, Jerry Gable wrote:
> At launch the pressure suddenly dropped 0.003 PSI. I suspect that was due to
> the acceleration possibly on the actual transducer. If anyone has another
> explanation I would love to here it.

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8882. Re: KU/Washburn

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 03:09:33 UTC
From: L. Paul Verhage
Topic: 8882 Message: 8882
Attachments: 4 described; binary payloads are missing from this source WARC

I'll share this with everyone.

I'm attaching charts for cosmic rays, relative humidity, temperature, and ascent rate.

We observed sunrise at 80,000 feet (sooner than I was predicting) and at MET of 68 minutes.

Interesting points.
The air temperature stayed flat for 25 thousand feet. Normally we observe a peak of minimum air temperature and then it begins warming up.

The relative humidity don't produce spikes until 95,000 feet, or 15 minutes after sunrise. It's normal to see spikey RH data. I'll turn the weather station 90 degrees on the next flight to see if that helps to keep the sun off the sensor.

The cosmic rays peaked and decrease like normal, but then increase above 110,000 feet. I don't knpow if that;s normal (look at the RM-60 plot, it measures alphas, beta, and gammas. The Goldmine sensor measures only beta and gamma.

The ascent rate may have increased slightly after sunrise. However, it's not a significant bump up.

I'm working on the video now. We see Venus above the dawn and a really nice Earth's shadow. After I post the video, I can send out copies of the entire video. It's just under 1 GB as a ASF file and less than 400 MBs as a VWM. I'm trying to convert it to a new format.
My next attempt try to the balloon tp burst before the sunrises. I want to see dawn at a higher altitude.

Paul

On Sun, Nov 14, 2010 at 11:23 AM, Mark Caviezel <kmcaviezel@...>wrote:

> Paul:
> I would love to see the sunrise at altitude video! Either via big file
> transfer or mail snail mailed disk & and I will gladly pay a nominal fee for
> snail mail and consumables if by snail mail.
>
> We may see four different groups flying long range, long endurance zero
> pressure floaters this season. Unless they're joined by more groups.
>
> In the hot air balloon world, we call a predawn launch a 'dawn patrol'
> flight.

>
> Did the sun's warming affect the ascent rate?
>
> best
>
> - Mark Caviezel
>
>
>

--
Onwards and Upwards,
Paul

8883. Re: [GPSL] Internal Balloon Temp and Pressure during flight [2 Attachments]

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 03:14:29 UTC
From: L. Paul Verhage
Topic: 8880 Message: 8883

I wonder if the air pressure drops because the balloon is floating (not held down). When the balloon is held down, there's aa additional force on the balloon. I wonder if that second force shows up as increased pressure.

Paul

On Sun, Nov 14, 2010 at 6:48 PM, Jerry Gable <jerrygable@...> wrote:

> [Attachment(s)<https://mail.google.com/mail/html/compose/static_files/blank_quirks.html#12c4d014a59959cb_TopText>from Jerry Gable included below]
>
> I finally have the data on the differential pressure during a flight.
> This was a 1000 gram balloon. The ascent was about 1100 Ft/Sec with a burst
> altitude of 87,000 feet.
>
> The pressure and temperature was measured at the end of a tube that went
> about 20 inches into the balloon. The tube fed the pressure to a
> differential pressure transducer outside the neck of the balloon.
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> As expected there was a peak pressure as the balloon started to inflate.
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> At launch the pressure suddenly dropped 0.003 PSI. I suspect that was due
> to the acceleration possibly on the actual transducer. If anyone has
> another explanation I would love to here it.
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> Again as expected the pressure dropped as the diameter increased.
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> As the balloon approached burst the pressure did increase as expected. The
> increase from the minimum was about 0.008 PSI. I don't think we can judge
> how this compairs to the initial peak because of the offset during Ascent.
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> The temperature was probably as expected. During fill the internal temp
> was a little lower than the outside temp which can be explained by the
> cooling from the helium pressure change. Once in flight the internal
> temperature lags a little but not by a significant amount.
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> I think some other groups measured internal pressures and would love to
> know how these compared.
>
> Graphs should be linked to this email.
>
> Jerry
>

>
> Attachment(s) from Jerry Gable
>
> 2 of 2 Photo(s)
> [image: S3R4-Pressures.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/833099685/item/1114649068/view>
> S3R4-Pressures.jpg<http://groups.yahoo.com/group/GPSL/attachments/folder/833099685/item/1114649068/view>
> [image: S3R4-Temperatures.jpg]<http://groups.yahoo.com/group/GPSL/attachments/folder/833099685/item/880637795/view>
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>
>

--
Onwards and Upwards,
Paul

8884. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 03:20:58 UTC
From: Joe
Topic: 8880 Message: 8884
Attachments: 1 described; binary payloads are missing from this source WARC

Or have the outside port just inside the payload. the pressure in there
has to be the same as outside. Or at least every payload we have ever
flown easily would have equal pressure.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/14/2010 8:19 PM, Mike Manes wrote:
> Hi Jerry,
>
> Slick work! That pressure rise preceding burst could be used to operate a
> dump valve to make a latex float or to cut it away before it has a chance to
> foul the 'chute or payload string.
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> Re the pressure drop at launch: As I've observed before, it's possible that
> you were getting some "pitot tube" effects from airflow pushing into the
> ambient side of your differential transducer. This is a problem that aircraft
> makers have to deal with in locating their static pressure ports on the
> fuselage. That port is used for the altimeter, airspeed indicator and rate
> of climb indicator, and thus should present the ambient static pressure,
> regardless of airspeed. It does take some "cut and try" to get it right.
> This is why flight test models of new aircraft are commonly equipped with
> a long pitot-static probe extending some distance forward from the nose of
> the aircraft; that probe has proven accuracy and is independent from the
> test aircraft's aerodynamics. And it's used as the reference for locating
> both the pitot tube and static ports on the production aircraft.
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> The airflow at the bottom of an ascending balloon can be expected to look
> pretty weird. It might be possible to escape some of those effects by
> running a long tube to a horizontal-facing static port well below the
> balloon and payload string. But that tube would almost surely get twisted
> up in the lift line :=(.
>
> 73 de Mike W5VSI
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> On 11/14/2010 17:48, Jerry Gable wrote:
>> At launch the pressure suddenly dropped 0.003 PSI. I suspect that was due to
>> the acceleration possibly on the actual transducer. If anyone has another
>> explanation I would love to here it.

8885. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 14:48:27 UTC
From: Michael Willett
Topic: 8880 Message: 8885

If you attended GPSL 2010, I presented a similar graph representing balloon pressure, and this graph also represents the pressure curve presented by the University of Minnesota students. It is great to see a graph with calibrated values! My numbers were relative, but not calibrated.

What size balloon were you flying? My results that were similar to these were from a 1200 gr balloon. I found the 600 gr balloon may not share this same characteristics.

I fly the transducer inside my payload, sealed fairly well from the slip stream via a crushed sponge seal between the payload container halves. It works very well to give you ambient pressure as a reference. (I too am a pilot and know aircraft static and pitot tube systems though quite probably not as much as Mike).

--Michael
K5NOT

On 11/14/2010 8:19 PM, Mike Manes wrote:
>
> Hi Jerry,
>
> Slick work! That pressure rise preceding burst could be used to operate a
> dump valve to make a latex float or to cut it away before it has a
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> foul the 'chute or payload string.
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> you were getting some "pitot tube" effects from airflow pushing into the
> ambient side of your differential transducer. This is a problem that
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> makers have to deal with in locating their static pressure ports on the
> fuselage. That port is used for the altimeter, airspeed indicator and rate
> of climb indicator, and thus should present the ambient static pressure,
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> This is why flight test models of new aircraft are commonly equipped with
> a long pitot-static probe extending some distance forward from the nose of
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> test aircraft's aerodynamics. And it's used as the reference for locating
> both the pitot tube and static ports on the production aircraft.
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> balloon and payload string. But that tube would almost surely get twisted

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> 73 de Mike W5VSI
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> On 11/14/2010 17:48, Jerry Gable wrote:
> > At launch the pressure suddenly dropped 0.003 PSI. I suspect that
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> > the acceleration possibly on the actual transducer. If anyone has
> another
> > explanation I would love to here it.
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> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

8886. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 14:54:50 UTC
From: Michael Willett
Topic: 8880 Message: 8886

I followed the email string back and see you were flying a 1000 gr
balloon. Your results are similar to the 1200 gr balloon.

When / if I am able to recover the 600 gr pressure data from two flights
ago, I will post it. It will be calibrated, though possibly still a bit
course in A/D quantization.

--Michael
K5NOT

On 11/15/2010 8:48 AM, Michael Willett wrote:
>
>
> If you attended GPSL 2010, I presented a similar graph representing
> balloon pressure, and this graph also represents the pressure curve
> presented by the University of Minnesota students. It is great to see
> a graph with calibrated values! My numbers were relative, but not
> calibrated.
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> What size balloon were you flying? My results that were similar to
> these were from a 1200 gr balloon. I found the 600 gr balloon may not
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> I fly the transducer inside my payload, sealed fairly well from the
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> systems though quite probably not as much as Mike).
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> --Michael
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> On 11/14/2010 8:19 PM, Mike Manes wrote:
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>> 303-979-4899
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8887. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 15:53:18 UTC
From: Jerry Gable
Topic: 8880 Message: 8887

I tend to agree with Mike that this is probably caused by turbulence below the balloon. I'm not sure that the outside tube being in the package would have made much difference if it is drag/turbulence induced as the package will be in that zone. As Mike said, it may take getting the static tube out of the influence of the balloon and that would be twisted shut unless it was a ridged tube.

Something for future flights.

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Sun, November 14, 2010 8:14:29 PM
Subject: Re: [GPSL] Internal Balloon Temp and Pressure during flight

I wonder if the air pressure drops because the balloon is floating (not held down). When the balloon is held down, there's aa additional force on the balloon. I wonder if that second force shows up as increased pressure.

Paul

On Sun, Nov 14, 2010 at 6:48 PM, Jerry Gable <jerrygable@...> wrote:

[Attachment(s) from Jerry Gable included below]
>
>
>I finally have the data on the differential pressure during a flight. This was
>a 1000 gram balloon. The ascent was about 1100 Ft/Sec with a burst altitude of
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>Graphs should be linked to this email.
>
>Jerry
>
>
>Attachment(s) from Jerry Gable
>2 of 2 Photo(s)
>S3R4-Pressures.jpg
>S3R4-Temperatures.jpg
>

--
Onwards and Upwards,
Paul

8888. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 18:19:26 UTC
From: Zack Clobes
Topic: 8880 Message: 8888

Slightly off-topic, but Michael, Jon and I spent about 45 minutes scouring the predicted touch-down zone by air last week, and didn't see anything but freshly plowed fields.

Even with the grass starting to brown up, from 500-1000' it's going to be very tough to see the parachute. Note, there's a 700' tower in the middle of that area. :-)

One promising bit of news is that there's lot of hunting grounds up there, and we saw a couple of groups out hunting. Maybe you'll get lucky and one of them will stumble on to it.

Sorry,
Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Mon, Nov 15, 2010 at 9:53 AM, Jerry Gable <jerrygable@...> wrote:

>
>
> I tend to agree with Mike that this is probably caused by turbulence below
> the balloon. I'm not sure that the outside tube being in the package would
> have made much difference if it is drag/turbulence induced as the package
> will be in that zone. As Mike said, it may take getting the static tube out
> of the influence of the balloon and that would be twisted shut unless it was
> a ridged tube.
>
> Something for future flights.
>
> ------------------------------
> *From:* L. Paul Verhage <nearsys@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Sun, November 14, 2010 8:14:29 PM
> *Subject:* Re: [GPSL] Internal Balloon Temp and Pressure during flight
>
>
>
> I wonder if the air pressure drops because the balloon is floating (not
> held down). When the balloon is held down, there's aa additional force on
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>> Jerry
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>> Attachment(s) from Jerry Gable
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>>
>>
>
>
> --
> Onwards and Upwards,
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>

8889. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 18:37:20 UTC
From: Michael Willett
Topic: 8880 Message: 8889

Zack, I appreciate the time you took to scour the area. It would have
been great to find that payload, but the where-abouts could be just
about anywhere based on the final flight paths of several of the other
flights that landed in the area that day. It might even be plowed under
by now! I will keep holding out hopes for a call one day.

Thanks for taking the time and expense to look for it, it would have
been great to see it again!

Thank you!

--Michael
K5NOT

On 11/15/2010 12:19 PM, Zack Clobes wrote:
>
> Slightly off-topic, but Michael, Jon and I spent about 45 minutes
> scouring the predicted touch-down zone by air last week, and didn't
> see anything but freshly plowed fields.
>
> Even with the grass starting to brown up, from 500-1000' it's going to
> be very tough to see the parachute. Note, there's a 700' tower in the
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> Sorry,
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org <http://www.projecttraveler.org>
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>
> On Mon, Nov 15, 2010 at 9:53 AM, Jerry Gable <jerrygable@...
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> turbulence below the balloon. I'm not sure that the outside tube
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> influence of the balloon and that would be twisted shut unless it
> was a ridged tube.
>
> Something for future flights.

>
> ---
> *From:* L. Paul Verhage <nearsys@... <mailto:nearsys@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Sun, November 14, 2010 8:14:29 PM
> *Subject:* Re: [GPSL] Internal Balloon Temp and Pressure during flight
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>
> --
> Onwards and Upwards,
> Paul
>
>
>

8890. Results of Last Near Space Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 22:38:39 UTC
From: L. Paul Verhage
Topic: 8890 Message: 8890

Insead of completing homework, I processed all the data from the last flight. On my webpage is a report that includes data, position reports, and a video.

http://nearsys.com/arhab/flightdata/2010/h/index.htm

The cosmic ray flux was interesting, as was the relative humidity data. The video contains clips up to 113,000 feet where the balloon burst.

I would be interested in attempting another two night flights. One around midnight to see hw the temperature profile chanes without the sun and another to reach 100,000 feet 40 minutes before sunrise.

--
Onwards and Upwards,
Paul

8891. Re: [GPSL] Internal Balloon Temp and Pressure during flight

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-15 22:41:40 UTC
From: Mike Manes
Topic: 8880 Message: 8891

Well, during ascent, the air inside the payload package is being vented,
since I doubt any that we fly could hold 14 PSI! So there must be a
higher pressure inside in order to push that flow thru whatever leaks
are available. The tighter the box, the greater the internal pressure
required to make that flow go.
73 de Mike W5VSI

On 11/14/2010 20:20, Joe wrote:
> Or have the outside port just inside the payload. the pressure in there has to
> be the same as outside. Or at least every payload we have ever flown easily
> would have equal pressure.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/14/2010 8:19 PM, Mike Manes wrote:
>> Hi Jerry,
>>
>> Slick work! That pressure rise preceding burst could be used to operate a
>> dump valve to make a latex float or to cut it away before it has a chance to
>> foul the 'chute or payload string.
>>
>> Re the pressure drop at launch: As I've observed before, it's possible that
>> you were getting some "pitot tube" effects from airflow pushing into the
>> ambient side of your differential transducer. This is a problem that aircraft
>> makers have to deal with in locating their static pressure ports on the
>> fuselage. That port is used for the altimeter, airspeed indicator and rate
>> of climb indicator, and thus should present the ambient static pressure,
>> regardless of airspeed. It does take some "cut and try" to get it right.
>> This is why flight test models of new aircraft are commonly equipped with
>> a long pitot-static probe extending some distance forward from the nose of
>> the aircraft; that probe has proven accuracy and is independent from the
>> test aircraft's aerodynamics. And it's used as the reference for locating
>> both the pitot tube and static ports on the production aircraft.
>>
>> The airflow at the bottom of an ascending balloon can be expected to look
>> pretty weird. It might be possible to escape some of those effects by
>> running a long tube to a horizontal-facing static port well below the
>> balloon and payload string. But that tube would almost surely get twisted
>> up in the lift line :=(.
>>

>> 73 de Mike W5VSI
>>
>> On 11/14/2010 17:48, Jerry Gable wrote:
>>> At launch the pressure suddenly dropped 0.003 PSI. I suspect that was due to
>>> the acceleration possibly on the actual transducer. If anyone has another
>>> explanation I would love to here it.

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8892. Re: [GPSL] Results of Last Near Space Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 00:38:13 UTC
From: Mike Bogard
Topic: 8890 Message: 8892

Did any one beside me have a problem in seeing the video from that last flight? When I click on it there is just the white screen no video. ???

8893. Re: [GPSL] Results of Last Near Space Mission

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 02:50:00 UTC
From: Pete Lilja
Topic: 8890 Message: 8893

The video played just fine for me.

Pete
KC0GPB

On Mon, Nov 15, 2010 at 6:38 PM, Mike Bogard <kd0fw@...> wrote:

>
>
> Did any one beside me have a problem in seeing the video from that last
> flight? When I click on it there is just the white screen no video. ???
>
>

8894. Fwd: Message Quarantined: Re: [GPSL] Canon Cameras

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 16:09:38 UTC
From: Joe
Topic: 8894 Message: 8894
Attachments: 1 described; binary payloads are missing from this source WARC

Huh?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

-------- Original Message --------
Subject: Message Quarantined: Re: [GPSL] Canon Cameras
Date: Tue, 16 Nov 2010 16:00:35 +0000
From: Mailer Daemon <postmaster@...>
To: nss@...

Alert! The attached outbound message has been quarantined.

We're sorry, but our mail server did not deliver your message because it was caught by our outbound spam filter.

This message was not delivered to its intended recipient(s):

rick@...

To release from quarantine to this recipient, go to

https://airstream.redcondor.net/console/digest/view.action?token=bnNzQG13dC5uZXQAAAEs7-lX6H-DmFvdjvqSzCtsXRqZ_RRfdmXr&dbid=f60185c2-4106-4c44-99c1-cb98589a16d2&smtpid=20101116160034071&recipient=%3Crick%23fastmail.us%40207.190.94.137%2F32%3E

GPSL@yahoogroups.com

To release from quarantine to this recipient, go to

https://airstream.redcondor.net/console/digest/view.action?token=bnNzQG13dC5uZXQAAAEs7-lX6H-DmFvdjvqSzCtsXRqZ_RRfdmXr&dbid=f60185c2-4106-4c44-99c1-cb98589a16d2&smtpid=20101116160034071&recipient=%3CGPSL%23yahoogroups.com%40207.190.94.137%2F32%3E

8895. Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:07:45 UTC
From: L. Paul Verhage
Topic: 8895 Message: 8895

The Space Review has an interesting commentary on this issue. Seems we're not the only ones who think the media is over hyping near sapce launches.

http://www.thespacereview.com/article/1726/1

--
Onwards and Upwards,
Paul

8896. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:27:21 UTC
From: Mark Conner
Topic: 8895 Message: 8896

And many of these stories are prime examples of extraordinarily sloppy reporting. They are often a story about a story about a story about a launch and the last iteration is so far removed from what actually happened there is almost no resemblance. The journalists (and I use the term loosely) need to go back much closer to the source rather than spending 20 minutes summarizing (badly) what they found with Google News.

Most sci/tech stories in the "big" media seem to suffer from this.

</dumbjournalistsoapbox>

73 de Mark N9XTN

On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...> wrote:

>
>
> The Space Review has an interesting commentary on this issue. Seems we're
> not the only ones who think the media is over hyping near sapce launches.
>
> http://www.thespacereview.com/article/1726/1
>
> --
> Onwards and Upwards,
> Paul
>
>

8897. Find Me Spot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:32:52 UTC
From: L. Paul Verhage
Topic: 8728 Message: 8897

One of the victims of Saturday's near space flight was my SPOT tracker. Again, it didn't produce an output every ten minutes. Upon landing, the wind dragged the capsules through the mud and opened a hatch, spilling the contents. We didn't see the SPOT tracker.

Just a few minutes ago, it radioed in it's position. Here's the link.

http://fms.ws/3rA_V/39.16212/\-94.01965<http://fms.ws/3rA_V/39.16212//-94.01965>

It's two days late, but at least we'll get it back now (probably muddy to boot). Andy lives closest, so he is planning to get it.

--
Onwards and Upwards,
Paul

8898. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:33:32 UTC
From: Joe
Topic: 8895 Message: 8898
Attachments: 1 described; binary payloads are missing from this source WARC

And yet when youre in the shadow of a giant statewide university system,
you can't get coverage at all. he he he..

I had one coverage last year, but the only reason that even happened is
because the head engineer of the station is a member of our balloon group!

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/16/2010 1:27 PM, Mark Conner wrote:
>
>
> And many of these stories are prime examples of extraordinarily sloppy
> reporting. They are often a story about a story about a story about a
> launch and the last iteration is so far removed from what actually
> happened there is almost no resemblance. The journalists (and I use
> the term loosely) need to go back much closer to the source rather
> than spending 20 minutes summarizing (badly) what they found with
> Google News.
>
> Most sci/tech stories in the "big" media seem to suffer from this.
>
> </dumbjournalistsoapbox>
>
> 73 de Mark N9XTN
>
>
> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
>
>
>
> The Space Review has an interesting commentary on this issue.
> Seems we're not the only ones who think the media is over hyping
> near sapce launches.
> http://www.thespacereview.com/article/1726/1
>
> --
> Onwards and Upwards,
> Paul
>

>
>
>
>

8899. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:36:14 UTC
From: L. Paul Verhage
Topic: 8895 Message: 8899

I suppose some jounalists are too busy to research the matter.

If they did, they'd realize there's still alot of neat stuff going on ourt
there.

Paul

On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@...> wrote:

>
>
> And many of these stories are prime examples of extraordinarily sloppy
> reporting. They are often a story about a story about a story about a
> launch and the last iteration is so far removed from what actually happened
> there is almost no resemblance. The journalists (and I use the term
> loosely) need to go back much closer to the source rather than spending 20
> minutes summarizing (badly) what they found with Google News.
>
> Most sci/tech stories in the "big" media seem to suffer from this.
>
> </dumbjournalistsoapbox>
>
> 73 de Mark N9XTN
>
>
>
> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> The Space Review has an interesting commentary on this issue. Seems
>> we're not the only ones who think the media is over hyping near sapce
>> launches.
>>
>> http://www.thespacereview.com/article/1726/1
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>
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>

--
Onwards and Upwards,
Paul

8900. Re: [GPSL] Find Me Spot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:38:44 UTC
From: Mark Conner
Topic: 8728 Message: 8900

Looks to me like it's right on the road, or maybe the edge.

- Mark

On Tue, Nov 16, 2010 at 13:32, L. Paul Verhage <nearsys@...> wrote:

>
>
> One of the victims of Saturday's near space flight was my SPOT tracker.
> Again, it didn't produce an output every ten minutes. Upon landing, the
> wind dragged the capsules through the mud and opened a hatch, spilling the
> contents. We didn't see the SPOT tracker.
>
> Just a few minutes ago, it radioed in it's position. Here's the link.
>
> http://fms.ws/3rA_V/39.16212/\-94.01965<http://fms.ws/3rA_V/39.16212//-94.01965>
>
> It's two days late, but at least we'll get it back now (probably muddy to
> boot). Andy lives closest, so he is planning to get it.
>
> --
> Onwards and Upwards,
> Paul
>
>
>

8901. Fwd: Success!!!

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:41:39 UTC
From: L. Paul Verhage
Topic: 8901 Message: 8901
Attachments: 1 described; binary payloads are missing from this source WARC

Andy just emailed that he found it. I wonder if he caused it to transmit.

Well, now to find out why it isn't transmitting every 10 minutes. I'l start withi a check on my service. The first flight transmitted every 10 minutes, so I suspect we're alright there.

Paul

---------- Forwarded message ----------
From: Andrew Alexander <andyspipedream@...>
Date: Tue, Nov 16, 2010 at 1:07 PM
Subject: Success!!!
To: "L. Verhage Paul" <nearsys@...>

Andy Alexander
Andy's Pipe Dream
913-677-0200 Office
913-677-0700 Fax
913-233-9769 Mobile
andy@...

--
Onwards and Upwards,
Paul

8902. Re: [GPSL] Find Me Spot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:43:54 UTC
From: L. Paul Verhage
Topic: 8728 Message: 8902

We reovered the near spacecraft to the east of that road. Either it landed
on that road and was dragged through the mud (which did happen, I just don't
know if it was that far), or Andy caused it to transmit a position.

Paul

On Tue, Nov 16, 2010 at 1:38 PM, Mark Conner <mconner1@...> wrote:

>
>
> Looks to me like it's right on the road, or maybe the edge.
>
> - Mark
>
>
> On Tue, Nov 16, 2010 at 13:32, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> One of the victims of Saturday's near space flight was my SPOT tracker.
>> Again, it didn't produce an output every ten minutes. Upon landing, the
>> wind dragged the capsules through the mud and opened a hatch, spilling the
>> contents. We didn't see the SPOT tracker.
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>> Just a few minutes ago, it radioed in it's position. Here's the link.
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>> http://fms.ws/3rA_V/39.16212/\-94.01965<http://fms.ws/3rA_V/39.16212//-94.01965>
>>
>> It's two days late, but at least we'll get it back now (probably muddy to
>> boot). Andy lives closest, so he is planning to get it.
>>
>> --
>> Onwards and Upwards,
>> Paul
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>

--
Onwards and Upwards,
Paul

8903. Re: [GPSL] Find Me Spot

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 19:49:34 UTC
From: Mike Bogard
Topic: 8728 Message: 8903

That is interesting that it is just now reporting. Saturday I drove half way down that road till it started to get to muddy and didn't go any further. I did go east and west of that point and got nothing. When I was leaving there were two carloads of young people that walked south on that road toward the levy. Mike

8904. RE: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 20:38:22 UTC
From: Steve D
Topic: 8895 Message: 8904

Yes even the reporters I spoke to directly could not get it right. We never said we got into space or even close. The 23 miles up was a misquote I said the plane "flew" from release to landing for 23km. I am 46 not 42 and my girlfriend was suppressed to learn I was married.

It was only ever intended as a bit of fun although the construction and tracking was serious.

My intention was to promote ballooning and amateur radio.

We had no idea it would get the attention it did. If it's got anyone to join a proper balloon group then good. If it's upset anyone then I apologise it was not the intention.

But hopefully out of it I will get the chance to do a scientific launch.

I agree with the article linked to

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 16 November 2010 19:36
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Near Space Is Not Space

I suppose some jounalists are too busy to research the matter.

If they did, they'd realize there's still alot of neat stuff going on ourt there.

Paul

On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@...> wrote:

And many of these stories are prime examples of extraordinarily sloppy reporting. They are often a story about a story about a story about a launch and the last iteration is so far removed from what actually happened there is almost no resemblance. The journalists (and I use the term loosely) need to go back much closer to the source rather than spending 20 minutes summarizing (badly) what they found with Google News.

Most sci/tech stories in the "big" media seem to suffer from this.

</dumbjournalistsoapbox>

73 de Mark N9XTN

On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...> wrote:

The Space Review has an interesting commentary on this issue. Seems we're
not the only ones who think the media is over hyping near sapce launches.

http://www.thespacereview.com/article/1726/1

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

8905. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 20:41:19 UTC
From: Mark Conner
Topic: 8895 Message: 8905

I don't think anybody begrudges the coverage given to you, but many of us wish it was of a higher quality. There's a great story to be told, but it should be told well and factually by the media.

73 de Mark N9XTN

On Tue, Nov 16, 2010 at 14:38, Steve D <sbd64000@...> wrote:

>
>
> Yes even the reporters I spoke to directly could not get it right. We
> never said we got into space or even close. The 23 miles up was a misquote I
> said the plane “flew” from release to landing for 23km. I am 46 not 42 and
> my girlfriend was suppressed to learn I was married.
>
> It was only ever intended as a bit of fun although the construction and
> tracking was serious.
>
> My intention was to promote ballooning and amateur radio.
>
> We had no idea it would get the attention it did. If it’s got anyone to
> join a proper balloon group then good. If it’s upset anyone then I apologise
> it was not the intention.
>
> But hopefully out of it I will get the chance to do a scientific launch.
>
>
>
> I agree with the article linked to
>
>
>
> Steve
>
> G6UIM
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 16 November 2010 19:36
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Near Space Is Not Space
>
>

>
>
>
> I suppose some jounalists are too busy to research the matter.
>
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>
> If they did, they'd realize there's still alot of neat stuff going on ourt
> there.
>
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>
> Paul
>
> On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@...> wrote:
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>
> And many of these stories are prime examples of extraordinarily sloppy
> reporting. They are often a story about a story about a story about a
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> minutes summarizing (badly) what they found with Google News.
>
> Most sci/tech stories in the "big" media seem to suffer from this.
>
> </dumbjournalistsoapbox>
>
> 73 de Mark N9XTN
>
>
>
> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...> wrote:
>
>
>
> The Space Review has an interesting commentary on this issue. Seems we're
> not the only ones who think the media is over hyping near sapce launches.
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>
> http://www.thespacereview.com/article/1726/1
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> --
> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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8906. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-16 20:45:29 UTC
From: L. Paul Verhage
Topic: 8895 Message: 8906

I second that. You're doing a great job - the misquotes are a <insert your term here>.

Paul

On Tue, Nov 16, 2010 at 2:41 PM, Mark Conner <mconner1@gmail.com> wrote:

>
>
> I don't think anybody begrudges the coverage given to you, but many of us
> wish it was of a higher quality. There's a great story to be told, but it
> should be told well and factually by the media.
>
> 73 de Mark N9XTN
>
>
> On Tue, Nov 16, 2010 at 14:38, Steve D <sbd64000@...> wrote:
>
>>
>>
>> Yes even the reporters I spoke to directly could not get it right. We
>> never said we got into space or even close. The 23 miles up was a misquote I
>> said the plane “flew” from release to landing for 23km. I am 46 not 42 and
>> my girlfriend was suppressed to learn I was married.
>>
>> It was only ever intended as a bit of fun although the construction and
>> tracking was serious.
>>
>> My intention was to promote ballooning and amateur radio.
>>
>> We had no idea it would get the attention it did. If it’s got anyone to
>> join a proper balloon group then good. If it’s upset anyone then I apologise
>> it was not the intention.
>>
>> But hopefully out of it I will get the chance to do a scientific launch.
>>
>>
>>
>> I agree with the article linked to
>>
>>
>>
>> Steve
>>
>> G6UIM
>>

>>
>> ------------------------------
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *L. Paul Verhage
>> *Sent:* 16 November 2010 19:36
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] Near Space Is Not Space
>>
>>
>>
>>
>>
>> I suppose some jounalists are too busy to research the matter.
>>
>>
>>
>> If they did, they'd realize there's still alot of neat stuff going on ourt
>> there.
>>
>>
>>
>> Paul
>>
>> On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@gmail.com> wrote:
>>
>>
>>
>> And many of these stories are prime examples of extraordinarily sloppy
>> reporting. They are often a story about a story about a story about a
>> launch and the last iteration is so far removed from what actually happened
>> there is almost no resemblance. The journalists (and I use the term
>> loosely) need to go back much closer to the source rather than spending 20
>> minutes summarizing (badly) what they found with Google News.
>>
>> Most sci/tech stories in the "big" media seem to suffer from this.
>>
>> </dumbjournalistsoapbox>
>>
>> 73 de Mark N9XTN
>>
>>
>>
>> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...>
>> wrote:
>>
>>
>>
>> The Space Review has an interesting commentary on this issue. Seems
>> we're not the only ones who think the media is over hyping near sapce

>> launches.
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>> http://www.thespacereview.com/article/1726/1
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>> Onwards and Upwards,
>> Paul
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Onwards and Upwards,
Paul

8907. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 02:15:09 UTC
From: Mike Manes
Topic: 8895 Message: 8907

The guy is right - especially for those of us who've been afflicted with balloonacy for, yea, 2 decades or so. But OTOH, it's nice that SOME of us do get some press! It'd be nice if some of those blogs and articles would do a bit of research into the field (what we used to know as "journalism") and put these "novel" events in perspective.

73 de Mike W5VSI
CTO EOSS, 158 up, down, and back home

On 11/16/2010 12:07, L. Paul Verhage wrote:
>
>
> The Space Review has an interesting commentary on this issue. Seems we're
> not the only ones who think the media is over hyping near sapce launches.
> http://www.thespacereview.com/article/1726/1
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8908. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 02:21:55 UTC
From: Mike Manes
Topic: 8895 Message: 8908

Hear, hear! Thought I was alone in that point of view ...
73 de Mike W5VSI

On 11/16/2010 12:27, Mark Conner wrote:
>
>
> And many of these stories are prime examples of extraordinarily sloppy
> reporting. They are often a story about a story about a story about a launch
> and the last iteration is so far removed from what actually happened there is
> almost no resemblance. The journalists (and I use the term loosely) need to
> go back much closer to the source rather than spending 20 minutes summarizing
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>
> </dumbjournalistsoapbox>
>
> 73 de Mark N9XTN
>
>
> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
>
>
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> we're not the only ones who think the media is over hyping near sapce
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> Onwards and Upwards,
> Paul
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8909. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 02:25:49 UTC
From: Mike Manes
Topic: 8895 Message: 8909

WHAT journalists?? You mean the sci/tech bloggers? They're NOT
journalists - at best, they're mostly online op ed self-publishers.

On 11/16/2010 12:36, L. Paul Verhage wrote:
>
>
> I suppose some jounalists are too busy to research the matter.
> If they did, they'd realize there's still alot of neat stuff going on ourt there.
> Paul
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> On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
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> </dumbjournalistsoapbox>
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> 73 de Mark N9XTN
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> we're not the only ones who think the media is over hyping near sapce
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> http://www.thespacereview.com/article/1726/1
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8910. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 02:35:43 UTC
From: Mike Manes
Topic: 8895 Message: 8910

Hi Steve,

Your work with the PARIS group is excellent - it's not every maiden balloon flight that gets documented so well and recovered so quickly and with such good imagery. I doubt that many of us on ARHAB would gripe about getting even a fraction of the press that El Reg gave ya.

But the point of the grousing is that many of these flights are being covered as if they were equivalent to the landing of the Eagle on the moon!

And there may just a smattering of sour grapes amongst us olde fahrts :=P.

73 de Mike W5VSI

On 11/16/2010 13:38, Steve D wrote:
>
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> Yes even the reporters I spoke to directly could not get it right. We never
> said we got into space or even close. The 23 miles up was a misquote I said
> the plane “flew” from release to landing for 23km. I am 46 not 42 and my
> girlfriend was suppressed to learn I was married.
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> tracking was serious.
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> My intention was to promote ballooning and amateur radio.
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> We had no idea it would get the attention it did. If it’s got anyone to join a
> proper balloon group then good. If it’s upset anyone then I apologise it was
> not the intention.
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> But hopefully out of it I will get the chance to do a scientific launch.
>
> I agree with the article linked to
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 16 November 2010 19:36
> *To:* GPSL@yahoogroups.com

> *Subject:* Re: [GPSL] Near Space Is Not Space
>
> I suppose some jounalists are too busy to research the matter.
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8911. working with Journalists

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 17:42:17 UTC
From: Mark Caviezel
Topic: 8911 Message: 8911

Guys:
One guy who gets consistently excellent media coverage is Jonathan Trappe, the cluster balloon guy. His 'secret' is to be very pro-active about it, he generates press release hand outs, photography, and fact sheets and hands it over to all interested journalists. The result: positive and largely factually accurate reporting about his cluster balloon flights.

He gets more astonished and ignorant questions about legality, ATC, and motivation than all of the ARHAB guys.

He is making a flight this week in Mexico that I suspect will create a lot of media interest.

best

- Mark

8912. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 19:45:34 UTC
From: wb8elk@aol.com
Topic: 8895 Message: 8912

Mike....The journalists' bottom line is how to do a twist on the story that sells. If they have a choice between covering the following two examples from Colorado:

- EOSS launches student experiments to sample the atmosphere.

- Boy may be trapped inside runaway balloon.

Guess which one gets the journalist's attention and grabs the public's attention.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Steve D <sbd64000@...>
Sent: Tue, Nov 16, 2010 8:35 pm
Subject: Re: [GPSL] Near Space Is Not Space

Hi Steve,
Your work with the PARIS group is excellent - it's not every maiden
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nd with such good imagery. I doubt that many of us on ARHAB would
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And there may just a smattering of sour grapes amongst us olde fahrts :=P.
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On 11/16/2010 13:38, Steve D wrote:

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It was only ever intended as a bit of fun although the construction and tracking was serious.

My intention was to promote ballooning and amateur radio.

We had no idea it would get the attention it did. If it’s got anyone to join a proper balloon group then good. If it’s upset anyone then I apologise it was not the intention.

But hopefully out of it I will get the chance to do a scientific launch.

I agree with the article linked to

Steve

G6UIM

---

*From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L. Paul Verhage
Sent: 16 November 2010 19:36
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Near Space Is Not Space

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If they did, they'd realize there's still alot of neat stuff going on ourt here.

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Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

8913. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 21:49:17 UTC
From: Mike Manes
Topic: 8895 Message: 8913

It is written, "If it bleeds, it leads".

Our local NPR station solicited for stories of local interest for it
daily news program. I invited them to join us for a launch and recovery,
describing the roar of the Helium and smell of the crowd - I mean - latex.
Plus the radio traffic and chatter of the students at the recovery site.
They passed, but DID cover a gallery opening at the Art Museum ... by radio.
Go figger.

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On 11/17/2010 12:45, wb8elk@... wrote:
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8914. RE: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 22:54:21 UTC
From: Steve D
Topic: 8895 Message: 8914

Well some of what I hoped would happen has, a group of Australians are going to try and also a group of Iranian students.

I do hope they fly a bit of science also.

For those interested the cad files for plane contraction are here http://www.theregister.co.uk/2010/11/17/vulture_cad/page2.html

I don't think getting news coverage is totally the fault of the Journalists they are selling stories. (The inaccuracies are though) and need to write things that will grab the attention of the reader.

According to a piece in the Telegraph a lot of people try to get the pics http://www.telegraph.co.uk/science/space/8127418/Telegraph-captures-pictures-of-space.-Well-Clapham.html

A joke piece obviously.

As for if it bleeds it leads is true. Once sat on a broken down bus I pointed out Jupiter to the chap behind, "so what" was the response. I then said a comet was about to crash into it and the impact would be seen from earth, the force of several nuclear explosions. At which point the whole bus got interested.

I do hope if any of you get contacted by the students you will help out, maybe the following launch they will do some science. But at the very least they will have learnt a bit about the atmosphere.

If any groups in the UK need a hand with a launch I would be happy to help, be it tracking, chasing or making the Tea. Now very hooked on it and want to do another.

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 17 November 2010 21:49
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Subject: Re: [GPSL] Near Space Is Not Space

It is written, "If it bleeds, it leads".

Our local NPR station solicited for stories of local interest for it
daily news program. I invited them to join us for a launch and recovery,
describing the roar of the Helium and smell of the crowd - I mean - latex.
Plus the radio traffic and chatter of the students at the recovery site.
They passed, but DID cover a gallery opening at the Art Museum ... by radio.
Go figger.

73 de Mike W5VSI

On 11/17/2010 12:45, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
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> Mike....The journalists' bottom line is how to do a twist on the story
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> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
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> Sent: Tue, Nov 16, 2010 8:35 pm
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8915. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 23:12:33 UTC
From: Mike Manes
Topic: 8895 Message: 8915

Well, one possible beneficial effect of the coverage in the UK may be
prompting an MP or two to inquire why you were compelled to haul the
Limey-built Vulture out of Old Blighty to fly it - and the answer
may inspire an inquiry into your draconian regulations prohibiting
ham radio aboard unmanned weather balloons. I mean, if it's OK
with the Ayatollah, then it oughta please the Queen as well :=).

Hope reigns eternal, eh?

73 de Mike W5VSI

On 11/17/2010 15:54, Steve D wrote:
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> to try and also a group of Iranian students.
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>> >
>> > I agree with the article linked to
>> >
>> > Steve
>> >
>> > G6UIM
>> >
>> > --
>> >
>> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>?>] *On Behalf Of *L.
>> > Paul Verhage
>> > *Sent:* 16 November 2010 19:36
>> > *To:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
>> > *Subject:* Re: [GPSL] Near Space Is Not Space
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>> > If they did, they'd realize there's still alot of neat stuff going on ourt

>> there.
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>> > Paul
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> <mailto:mconner1%40gmail.com> <mailto:mconner1@...
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8916. RE: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-17 23:36:56 UTC
From: Steve D
Topic: 8895 Message: 8916

Well I have not looked up the reason for it, but I suspect it might have something to do with the pirate radio of the 60's.
On a mission now, there are a couple of BBC radio DJ's that started out in pirate radio, so will start there.
This is going off topic I think so if anyone wants to help or send me info on getting Amateur Radio OK for flight in the UK contact me off list.

Steve
G6UIM
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: 17 November 2010 23:13
To: Steve D
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Near Space Is Not Space

Well, one possible beneficial effect of the coverage in the UK may be prompting an MP or two to inquire why you were compelled to haul the Limey-built Vulture out of Old Blighty to fly it - and the answer may inspire an inquiry into your draconian regulations prohibiting ham radio aboard unmanned weather balloons. I mean, if it's OK with the Ayatollah, then it oughta please the Queen as well :=).

Hope reigns eternal, eh?

73 de Mike W5VSI

On 11/17/2010 15:54, Steve D wrote:
>
>
> Well some of what I hoped would happen has, a group of Australians are going
> to try and also a group of Iranian students.
>
> I do hope they fly a bit of science also.
>
> For those interested the cad files for plane contraction are here
> http://www.theregister.co.uk/2010/11/17/vulture_cad/page2.html
>
> I don't think getting news coverage is totally the fault of the Journalists
> they are selling stories. (The inaccuracies are though) and need to write
> things that will grab the attention of the reader.
>
> According to a piece in the Telegraph a lot of people try to get the pics

>
http://www.telegraph.co.uk/science/space/8127418/Telegraph-captures-pictures
-of-space.-Well-Clapham.html
>
> A joke piece obviously.
>
> As for if it bleeds it leads is true. Once sat on a broken down bus I
pointed
> out Jupiter to the chap behind, "so what" was the response. I then said a
> comet was about to crash into it and the impact would be seen from earth,
the
> force of several nuclear explosions. At which point the whole bus got
interested.
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> I do hope if any of you get contacted by the students you will help out,
maybe
> the following launch they will do some science. But at the very least they
> will have learnt a bit about the atmosphere.
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> If any groups in the UK need a hand with a launch I would be happy to
help, be
> it tracking, chasing or making the Tea. Now very hooked on it and want to
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> another.
>
> Steve
>
> G6UIM
>
>

--
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
*Mike
> Manes
> *Sent:* 17 November 2010 21:49
> *To:* GPSL@yahoogroups.com
> *Cc:* wb8elk@...
> *Subject:* Re: [GPSL] Near Space Is Not Space
>
> It is written, "If it bleeds, it leads".
>
> Our local NPR station solicited for stories of local interest for it
> daily news program. I invited them to join us for a launch and recovery,
> describing the roar of the Helium and smell of the crowd - I mean - latex.
> Plus the radio traffic and chatter of the students at the recovery site.
> They passed, but DID cover a gallery opening at the Art Museum ... by
radio.
> Go figger.

>
> 73 de Mike W5VSI
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> On 11/17/2010 12:45, wb8elk@... <mailto:wb8elk%40aol.com> wrote:
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>> Mike....The journalists' bottom line is how to do a twist on the story
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>> sells. If they have a choice between covering the following two examples
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>> Colorado:
>> - EOSS launches student experiments to sample the atmosphere.
>> - Boy may be trapped inside runaway balloon.
>> Guess which one gets the journalist's attention and grabs the public's
> attention.
>> - Bill WB8ELK
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>> -----Original Message-----
>> From: Mike Manes <mrmanes@... <mailto:mrmanes%40gmail.com>>
>> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>> Cc: Steve D <sbd64000@... <mailto:sbd64000%40yahoo.com>>
>> Sent: Tue, Nov 16, 2010 8:35 pm
>> Subject: Re: [GPSL] Near Space Is Not Space
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>> Hi Steve,
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>> Your work with the PARIS group is excellent - it's not every maiden
>> balloon flight that gets documented so well and recovered so quickly
>> and with such good imagery. I doubt that many of us on ARHAB would
>> gripe about getting even a fraction of the press that El Reg gave ya.
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>> But the point of the grousing is that many of these flights are being
>> covered as if they were equivalent to the landing of the Eagle on the
>> moon!
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>> And there may just a smattering of sour grapes amongst us olde fahrts
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Yahoo! Groups Links

8917. CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 00:21:31 UTC
From: k6rpt
Topic: 8917 Message: 8917

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

8918. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 01:36:09 UTC
From: Mike Manes
Topic: 8895 Message: 8918

Hi Steve,

It's illegal almost anywhere in the world for a passenger on a commercial airline flight to key up a transmitter, including a cell phone, while the bird's in flight. You know the caveats that the stewies recite when taxiing out from the gate. The rationale is that those xmitters can QRM the nav radios, like VOR, TACAN and GPS - and we in ARHAB have had to deal with that as well.

However, extending that restriction to ANYTHING that soars over 700 ft above the earth is clearly over-reaching. In the US, and probably anywhere else in the world that has the equivalent of our FAA and FCC, there are exceptions for transmitters that are under control of the pilot in command or the unmanned aircraft operator. If they choose to foul their own nest electro-magnetically, then don't nanny-state them. There may very well be such an exemption in the UK rules, but it would not surprise me that most of the bureaucrats charged with enforcing those regs are familiar with them. We've certainly found FAA folks who have no clue about our FAR 101 regs.

So maybe a good start might be a search for that exemption in the UK regs, and to recite it loudly and repetitively until someone who counts pays attention.

73 de Mike W5VSI

On 11/17/2010 16:36, Steve D wrote:
> Well I have not looked up the reason for it, but I suspect it might have
> something to do with the pirate radio of the 60's.
> On a mission now, there are a couple of BBC radio DJ's that started out in
> pirate radio, so will start there.
> This is going off topic I think so if anyone wants to help or send me info
> on getting Amateur Radio OK for flight in the UK contact me off list.
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> Steve
> G6UIM
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> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
> Manes
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> To: Steve D
> Cc: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Near Space Is Not Space
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> Journalists
>> they are selling stories. (The inaccuracies are though) and need to write
>> things that will grab the attention of the reader.
>>
>> According to a piece in the Telegraph a lot of people try to get the pics
>>
> http://www.telegraph.co.uk/science/space/8127418/Telegraph-captures-pictures
> -of-space.-Well-Clapham.html
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>> As for if it bleeds it leads is true. Once sat on a broken down bus I
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>>> To: GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
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8919. An oldie But Still A Goodie

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 04:25:23 UTC
From: Joe
Topic: 8919 Message: 8919
Attachments: 1 described; binary payloads are missing from this source WARC

This i've seen before but just now came across it again and it's still awesome

This is a video of James May (Captain Slow from BBC's show Top Gear)

But he gets the cjhance to fly in an U-2 Plane. awesome!

http://www.wimp.com/breathtakingfootage/
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8920. Re: [GPSL] CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 04:33:34 UTC
From: Rick von Glahn
Topic: 8917 Message: 8920

Cool (literally), no IR heating, no UV degrading latex. This an excellent idea. Good luck.

73 - Rick -- N0KKZ

On Nov 17, 2010, at 17:21, "k6rpt" <Ron@...> wrote:

>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>
> http://www.CaliforniaNearSpaceProject.com
>
> -Ron K6RPT
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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8921. Re: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 12:31:02 UTC
From: Steve Randall
Topic: 8895 Message: 8921

Steve, I was surprised it turned out to be legal in Spain and not the UK as my reading of the regs. suggested airborne operation of amateur radio equipment was not allowed in all CEPT countries.
For UK HAB we have been using low power licence exempt modules - specifically those ones where airborne operation is allowed. We have managed to get a few hundred miles out of 10mW modules so far.
  Steve G8KHW / AJ4XE
On 18 Nov 2010, at 01:36, Mike Manes wrote:
Hi Steve,

It's illegal almost anywhere in the world for a passenger on a commercial airline flight to key up a transmitter, including a cell phone, while the bird's in flight. You know the caveats that the stewies recite when taxiing out from the gate. The rationale is that those xmitters can QRM the nav radios, like VOR, TACAN and GPS - and we in ARHAB have had to deal with that as well.

However, extending that restriction to ANYTHING that soars over 700 ft above the earth is clearly over-reaching. In the US, and probably anywhere else in the world that has the equivalent of our FAA and FCC, there are exceptions for transmitters that are under control of the pilot in command or the unmanned aircraft operator. If they choose to foul their own nest electro-magnetically, then don't nanny-state them. There may very well be such an exemption in the UK rules, but it would not surprise me that most of the bureaucrats charged with enforcing those regs are familiar with them. We've certainly found FAA folks who have no clue about our FAR 101 regs.

So maybe a good start might be a search for that exemption in the UK regs, and to recite it loudly and repetitively until someone who counts pays attention.

73 de Mike W5VSI

On 11/17/2010 16:36, Steve D wrote:
Well I have not looked up the reason for it, but I suspect it might have something to do with the pirate radio of the 60's.
On a mission now, there are a couple of BBC radio DJ's that started out in pirate radio, so will start there.
This is going off topic I think so if anyone wants to help or send me info on getting Amateur Radio OK for flight in the UK contact me off list.

Steve
G6UIM
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes

Sent: 17 November 2010 23:13
To: Steve D
Cc: GPSL@yahoogroups.com
Subject: Re: [GPSL] Near Space Is Not Space

Well, one possible beneficial effect of the coverage in the UK may be prompting an MP or two to inquire why you were compelled to haul the Limey-built Vulture out of Old Blighty to fly it - and the answer may inspire an inquiry into your draconian regulations prohibiting ham radio aboard unmanned weather balloons. I mean, if it's OK with the Ayatollah, then it oughta please the Queen as well :=).

Hope reigns eternal, eh?

73 de Mike W5VSI

On 11/17/2010 15:54, Steve D wrote:

Well some of what I hoped would happen has, a group of Australians are going
to try and also a group of Iranian students.

I do hope they fly a bit of science also.

For those interested the cad files for plane contraction are here
http://www.theregister.co.uk/2010/11/17/vulture_cad/page2.html

I don't think getting news coverage is totally the fault of the Journalists
they are selling stories. (The inaccuracies are though) and need to write things that will grab the attention of the reader.

According to a piece in the Telegraph a lot of people try to get the pics

http://www.telegraph.co.uk/science/space/8127418/Telegraph-captures-pictures-of-space.-Well-Clapham.html

A joke piece obviously.

As for if it bleeds it leads is true. Once sat on a broken down bus I pointed
out Jupiter to the chap behind, "so what" was the response. I then said a comet was about to crash into it and the impact would be seen from earth, the
force of several nuclear explosions. At which point the whole bus got interested.

I do hope if any of you get contacted by the students you will help out, maybe
the following launch they will do some science. But at the very least they will have learnt a bit about the atmosphere.

If any groups in the UK need a hand with a launch I would be happy to help, be

it tracking, chasing or making the Tea. Now very hooked on it and want to
do
another.

Steve

G6UIM

--

*From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
*Mike
Manes
Sent: 17 November 2010 21:49
To: GPSL@yahoogroups.com
Cc: wb8elk@...
Subject: Re: [GPSL] Near Space Is Not Space

It is written, "If it bleeds, it leads".

Our local NPR station solicited for stories of local interest for it
daily news program. I invited them to join us for a launch and recovery,
describing the roar of the Helium and smell of the crowd - I mean - latex.
Plus the radio traffic and chatter of the students at the recovery site.
They passed, but DID cover a gallery opening at the Art Museum ... by
radio.
Go figger.

73 de Mike W5VSI

On 11/17/2010 12:45, wb8elk@aol.com<mailto:wb8elk%40aol.com> wrote:

 Mike....The journalists' bottom line is how to do a twist on the story
that
 sells. If they have a choice between covering the following two examples
from
 Colorado:
 - EOSS launches student experiments to sample the atmosphere.
 - Boy may be trapped inside runaway balloon.
 Guess which one gets the journalist's attention and grabs the public's
attention.
 - Bill WB8ELK

 -----Original Message-----
 From: Mike Manes<mrmanes@...<mailto:mrmanes%40gmail.com>>
 To: GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
 Cc: Steve D<sbd64000@...<mailto:sbd64000%40yahoo.com>>
 Sent: Tue, Nov 16, 2010 8:35 pm
 Subject: Re: [GPSL] Near Space Is Not Space

 Hi Steve,

Your work with the PARIS group is excellent - it's not every maiden balloon flight that gets documented so well and recovered so quickly and with such good imagery. I doubt that many of us on ARHAB would gripe about getting even a fraction of the press that El Reg gave ya.

But the point of the grousing is that many of these flights are being covered as if they were equivalent to the landing of the Eagle on the moon!

And there may just a smattering of sour grapes amongst us olde fahrts :=P.

73 de Mike W5VSI

On 11/16/2010 13:38, Steve D wrote:

Yes even the reporters I spoke to directly could not get it right. We never
said we got into space or even close. The 23 miles up was a misquote I said
the plane "flew" from release to landing for 23km. I am 46 not 42 and my
girlfriend was suppressed to learn I was married.

It was only ever intended as a bit of fun although the construction and tracking was serious.

My intention was to promote ballooning and amateur radio.

We had no idea it would get the attention it did. If it's got anyone to join a
proper balloon group then good. If it's upset anyone then I apologise it was
not the intention.

But hopefully out of it I will get the chance to do a scientific launch.

I agree with the article linked to

Steve

G6UIM

---

*From:*GPSL@yahoogroups.com<mailto:%2AGPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>>
[mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>?>] *On Behalf Of *L.
Paul Verhage
Sent: 16 November 2010 19:36
*To:*GPSL@yahoogroups.com<mailto:%2AGPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>>

Subject: Re: [GPSL] Near Space Is Not Space

I suppose some jounalists are too busy to research the matter.

If they did, they'd realize there's still alot of neat stuff going on
ourt
 there.

Paul

On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner<mconner1@...
<mailto:mconner1%40gmail.com> <mailto:mconner1@...
<mailto:mconner1%40gmail.com>>
<mailto:mconner1@...<mailto:mconner1%40gmail.com>
<mailto:mconner1@...<mailto:mconner1%40gmail.com>?>>> wrote:

And many of these stories are prime examples of extraordinarily sloppy
reporting. They are often a story about a story about a story about a
launch
and the last iteration is so far removed from what actually happened
there is
almost no resemblance. The journalists (and I use the term loosely)
need to go
back much closer to the source rather than spending 20 minutes
summarizing
(badly) what they found with Google News.

Most sci/tech stories in the "big" media seem to suffer from this.

</dumbjournalistsoapbox>

73 de Mark N9XTN

On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage<nearsys@...
<mailto:nearsys%40gmail.com> <mailto:nearsys@...
<mailto:nearsys%40gmail.com>>
<mailto:nearsys@...<mailto:nearsys%40gmail.com>
<mailto:nearsys@...<mailto:nearsys%40gmail.com>?>>> wrote:

The Space Review has an interesting commentary on this issue. Seems
we're not
the only ones who think the media is over hyping near sapce launches.

http://www.thespacereview.com/article/1726/1

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

--
Mike Manesmrmanes@...<mailto:Manesmrmanes%40gmail.com>
<mailto:mrmanes@...<mailto:mrmanes%40gmail.com>> Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

--
Mike Manes mrmanes@...<mailto:mrmanes%40gmail.com> Tel:
303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

--
Mike Manes   mrmanes@...   Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

Steve RandallRandom Engineering Ltdsteve@...+44 7802 242135

8922. Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:11:41 UTC
From: Joe
Topic: 8922 Message: 8922
Attachments: 2 described; binary payloads are missing from this source WARC

Am I the only one watching this flight?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 9:50 AM, Joe wrote:
> Hi Gang,
>
> OK, what altitude did the leveling off happen last time? wasn't it
> close to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 8:51 AM, GregC wrote:
>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>
>> -- Greg K7RKT
>>
>>
>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>
>>> http://www.CaliforniaNearSpaceProject.com
>>>
>>> -Ron K6RPT
>>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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8923. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:15:16 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8923
Attachments: 2 described; binary payloads are missing from this source WARC

I took a quick peek. I use to live in California and saw familar towns.

So it l;ooks like the chase team is going to have to take I-80 across Donner Summit and then down highway 95 south. It's tough to chase east across Califonia's Serria Nevadas.

Paul

On Thu, Nov 18, 2010 at 10:11 AM, Joe <nss@...> wrote:

> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,
>
> OK, what altitude did the leveling off happen last time? wasn't it close
> to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 8:51 AM, GregC wrote:
>
> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>
> -- Greg K7RKT
>
>
> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> <Ron@...> wrote:
>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude

attempt on November 18, 2010 at 2:30 a.m. PST.
> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
>
> -Ron K6RPT
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

--
Onwards and Upwards,
Paul

8924. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:19:05 UTC
From: Joe
Topic: 8922 Message: 8924
Attachments: 3 described; binary payloads are missing from this source WARC

If they even bother chasing. when will it punch through what ever is keeping it from rising? and if it doesn't will it then come down at sunset, this could be interesting.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 10:15 AM, L. Paul Verhage wrote:
>
>
> I took a quick peek. I use to live in California and saw familar towns.
> So it l;ooks like the chase team is going to have to take I-80 across
> Donner Summit and then down highway 95 south. It's tough to chase
> east across Califonia's Serria Nevadas.
> Paul
>
> On Thu, Nov 18, 2010 at 10:11 AM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 11/18/2010 9:50 AM, Joe wrote:
>> Hi Gang,
>>
>> OK, what altitude did the leveling off happen last time? wasn't
>> it close to this altitude last time when it slowed down?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com

>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>
>>> -- Greg K7RKT
>>>
>>>
>>> --- InBalloon_Sked@yahoogroups.com <mailto:Balloon_Sked@yahoogroups.com>, "k6rpt"<Ron@...> <mailto:Ron@...> wrote:
>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
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>>>> http://www.CaliforniaNearSpaceProject.com
<http://www.californianearspaceproject.com/>
>>>>
>>>> -Ron K6RPT
>>>>
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>>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
>
>
>

8925. Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:21:06 UTC
From: Mark Caviezel
Topic: 8922 Message: 8925
Attachments: 2 described; binary payloads are missing from this source WARC

Joe:
I'm watching it. Should we have a betting pool to see if anyone thinks it can overfly NV and make it to Utah?

best

- Mark

--- On Thu, 11/18/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
To: "GregC" <greg@...>
Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
Date: Thursday, November 18, 2010, 8:11 AM

Am I the only one watching this flight?

Joe WB9SBD

Sig

The Original Rolling
Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010 9:50 AM, Joe wrote:

Hi Gang,

OK, what altitude did the leveling off happen last time? wasn't
it close to this altitude last time when it slowed down?

Joe WB9SBD

Sig

The Original Rolling
Ball Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010 8:51 AM, GregC wrote:

This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!

-- Greg K7RKT

--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

Yahoo! Groups Links

8926. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:22:37 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8926
Attachments: 3 described; binary payloads are missing from this source WARC

Pete Sais had a flight like this in 1999(?) It took seven hours to land.

The winds were 63 MPH when I looked. I wonder if the positive lift is so
low it can't get through.

Does this mean there's significant wind shear across the height of the
balloon?

I guess my task for next year is to make a commerically viable flight
termination unit kit.

Paul

On Thu, Nov 18, 2010 at 10:19 AM, Joe <nss@...> wrote:

> If they even bother chasing. when will it punch through what ever is
> keeping it from rising? and if it doesn't will it then come down at sunset,
> this could be interesting.
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 10:15 AM, L. Paul Verhage wrote:
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> I took a quick peek. I use to live in California and saw familar towns.
>
> So it l;ooks like the chase team is going to have to take I-80 across
> Donner Summit and then down highway 95 south. It's tough to chase east
> across Califonia's Serria Nevadas.
>
> Paul
>
> On Thu, Nov 18, 2010 at 10:11 AM, Joe <nss@...> wrote:
>
>> Am I the only one watching this flight?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme

>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 9:50 AM, Joe wrote:
>>
>> Hi Gang,
>>
>> OK, what altitude did the leveling off happen last time? wasn't it close
>> to this altitude last time when it slowed down?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>
>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>>
>> -- Greg K7RKT
>>
>>
>> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> <Ron@...> wrote:
>>
>> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
>> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
>>
>> -Ron K6RPT
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>> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
>
>

--
Onwards and Upwards,
Paul

8927. Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:26:12 UTC
From: Joe
Topic: 8922 Message: 8927
Attachments: 3 described; binary payloads are missing from this source WARC

What altitude was it at when it levelled off last time? or at least
slowed way down remember it brought up the pressure thing and all that?

And i wonder what is happenening at this level that stopping it from
punching through.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 10:21 AM, Mark Caviezel wrote:
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone
> thinks it can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
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>>
>> OK, what altitude did the leveling off happen last time? wasn't
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>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>>>
>>> -- Greg K7RKT
>>>
>>>
>>> --- InBalloon_Sked@yahoogroups.com </mc/compose?to=Balloon_Sked@yahoogroups.com>,
"k6rpt"<Ron@...> </mc/compose?to=Ron@...> wrote:
>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>
>>>> http://www.CaliforniaNearSpaceProject.com
>>>>
>>>> -Ron K6RPT
>>>>
>>>
>>> ------------------------------------
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>>> Yahoo! Groups Links
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8928. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:26:44 UTC
From: Jerry Gable
Topic: 8922 Message: 8928

A new money making idea, balloon lotto.

From: Mark Caviezel <kmcaviezel@...>
To: GregC <greg@...>; Joe <nss@...>
Cc: Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
Sent: Thu, November 18, 2010 9:21:06 AM
Subject: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Joe:
I'm watching it. Should we have a betting pool to see if anyone thinks it can overfly NV and make it to Utah?

best

- Mark

--- On Thu, 11/18/10, Joe <nss@...> wrote:

>From: Joe <nss@...>
>Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>To: "GregC" <greg@...>
>Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>Date: Thursday, November 18, 2010, 8:11 AM
>
>
>Am I the only one watching this flight?
>
>Joe WB9SBD
>
>Sig
>The Original Rolling Ball Clock
>Idle Tyme
>Idle-Tyme.com
>http://www.idle-tyme.com
>
>On 11/18/2010 9:50 AM, Joe wrote:
>Hi Gang,
>>
>>OK, what altitude did the leveling off happen last time? wasn't it close
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>>
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>>On 11/18/2010 8:51 AM, GregC wrote:
>>This one's still in the air and slooooowly climbing -- looks like it's going to
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>>>-- Greg K7RKT
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>>>--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
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>>>altitude attempt on November 18, 2010 at 2:30 a.m. PST.
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>>>>
>>>>http://www.CaliforniaNearSpaceProject.com
>>>>
>>>>-Ron K6RPT
>>>>
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>>
>>Yahoo! Groups Links
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8929. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:28:39 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8929

How about balloon futures?
Balloon bellies?

Or near space futures?

Paul

On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...> wrote:

>
>
> A new money making idea, balloon lotto.
>
> ------------------------------
> *From:* Mark Caviezel <kmcaviezel@...>
> *To:* GregC <greg@...>; Joe <nss@...>
>
> *Cc:* Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
> *Sent:* Thu, November 18, 2010 9:21:06 AM
> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
>
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone thinks it
> can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe <nss@...>* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18,
> 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>

> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,
>
> OK, what altitude did the leveling off happen last time? wasn't it close
> to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 8:51 AM, GregC wrote:
>
> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>
> -- Greg K7RKT
>
>
> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
>
> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
>
> -Ron K6RPT
>
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> ------------------------------------
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8930. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:30:06 UTC
From: Keith Kaiser
Topic: 8922 Message: 8930

I've already posted in the records page the highest altitude for the flight. Are you the only one watching ..... I don't think so.

On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:

>
> How about balloon futures?
> Balloon bellies?
>
> Or near space futures?
>
> Paul
>
> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...> wrote:
>
>
> A new money making idea, balloon lotto.
>
> From: Mark Caviezel <kmcaviezel@yahoo.com>
> To: GregC <greg@...>; Joe <nss@...>
>
> Cc: Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
> Sent: Thu, November 18, 2010 9:21:06 AM
> Subject: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone thinks it can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On Thu, 11/18/10, Joe <nss@...> wrote:
>
> From: Joe <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>

> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
>>
>> Hi Gang,
>>
>> OK, what altitude did the leveling off happen last time? wasn't it close to this altitude last time when it slowed down?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>>
>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>
>>> -- Greg K7RKT
>>>
>>>
>>> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>>>
>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>
>>>> http://www.CaliforniaNearSpaceProject.com
>>>>
>>>>
>>>> -Ron K6RPT
>>>>
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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>>> (Yahoo! ID required)
>>>

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>
> --
> Onwards and Upwards,
> Paul
>
>

8931. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:32:17 UTC
From: Michael Willett
Topic: 8922 Message: 8931
Attachments: 2 described; binary payloads are missing from this source WARC

I am here too, just wondering what kind of battery life that APRS has, I
would enjoy watching it go across as many states as it can!

--Michael
k5NOT

On 11/18/2010 10:21 AM, Mark Caviezel wrote:
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone
> thinks it can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
>> Hi Gang,
>>
>> OK, what altitude did the leveling off happen last time? wasn't
>> it close to this altitude last time when it slowed down?
>>
>> Joe WB9SBD
>>

>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>
>>> -- Greg K7RKT
>>>
>>>
>>> --- InBalloon_Sked@yahoogroups.com </mc/compose?to=Balloon_Sked@yahoogroups.com>, "k6rpt"<Ron@...> </mc/compose?to=Ron@...> wrote:
>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>
>>>> http://www.CaliforniaNearSpaceProject.com
>>>>
>>>> -Ron K6RPT
>>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>

8932. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:33:51 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8932
Attachments: 2 described; binary payloads are missing from this source WARC

This is where solar would come in handy.

I've run a TT3 payload (on the ground) for 22 hours with once per minute
updates.
Paul
On Thu, Nov 18, 2010 at 10:32 AM, Michael Willett <mw@...> wrote:

> I am here too, just wondering what kind of battery life that APRS has, I
> would enjoy watching it go across as many states as it can!
>
> --Michael
> k5NOT
>
> On 11/18/2010 10:21 AM, Mark Caviezel wrote:
>
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone thinks it
> can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe <nss@...> <nss@...>* wrote:
>
>
> From: Joe <nss@...> <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18,
> 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...> <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com><GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>

> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,
>
> OK, what altitude did the leveling off happen last time? wasn't it close
> to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 8:51 AM, GregC wrote:
>
> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>
> -- Greg K7RKT
>
>
> --- In Balloon_Sked@yahoogroups.com <http://mc/compose?to=Balloon_Sked@yahoogroups.com>,
"k6rpt" <Ron@...> <http://mc/compose?to=Ron@...> wrote:
>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
>
> -Ron K6RPT
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8933. RE: [GPSL] Near Space Is Not Space

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:34:11 UTC
From: Steve D
Topic: 8895 Message: 8933

Well some good news is a local primary school got some belated attention of the back of PARIS

http://www.thisissouthdevon.co.uk/news/Pupils-moon-space-spud/article-2908353-detail/article.html

Sadly the reporter failed in the altitude conversion. So I contacted him, they flight made 35km which puts them around 26th on the ARHAB record list.

So a bunch of young children have hopefully been encouraged to do some more science

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: 17 November 2010 19:46
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Near Space Is Not Space

Mike....The journalists' bottom line is how to do a twist on the story that sells. If they have a choice between covering the following two examples from Colorado:

- EOSS launches student experiments to sample the atmosphere.

- Boy may be trapped inside runaway balloon.

Guess which one gets the journalist's attention and grabs the public's attention.

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <mrmanes@...>
To: GPSL@yahoogroups.com
Cc: Steve D <sbd64000@...>
Sent: Tue, Nov 16, 2010 8:35 pm
Subject: Re: [GPSL] Near Space Is Not Space

Hi Steve,

Your work with the PARIS group is excellent - it's not every maiden balloon flight that gets documented so well and recovered so quickly and with such good imagery. I doubt that many of us on ARHAB would

gripe about getting even a fraction of the press that El Reg gave ya.

But the point of the grousing is that many of these flights are being covered as if they were equivalent to the landing of the Eagle on the moon!

And there may just a smattering of sour grapes amongst us olde fahrts :=P.

73 de Mike W5VSI

On 11/16/2010 13:38, Steve D wrote:
>
>
> Yes even the reporters I spoke to directly could not get it right. We never
> said we got into space or even close. The 23 miles up was a misquote I said
> the plane "flew" from release to landing for 23km. I am 46 not 42 and my
> girlfriend was suppressed to learn I was married.
>
> It was only ever intended as a bit of fun although the construction and
> tracking was serious.
>
> My intention was to promote ballooning and amateur radio.
>
> We had no idea it would get the attention it did. If it's got anyone to join a
> proper balloon group then good. If it's upset anyone then I apologise it was
> not the intention.
>
> But hopefully out of it I will get the chance to do a scientific launch.
>
> I agree with the article linked to
>
> Steve
>
> G6UIM
>
>

--
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com?>] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 16 November 2010 19:36
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Near Space Is Not Space
>
> I suppose some jounalists are too busy to research the matter.

>
> If they did, they'd realize there's still alot of neat stuff going on ourt there.
>
> Paul
>
> On Tue, Nov 16, 2010 at 1:27 PM, Mark Conner <mconner1@...
> <mailto:mconner1@... <mailto:mconner1@...?> >> wrote:
>
>
>
> And many of these stories are prime examples of extraordinarily sloppy
> reporting. They are often a story about a story about a story about a launch
> and the last iteration is so far removed from what actually happened there is
> almost no resemblance. The journalists (and I use the term loosely) need to go
> back much closer to the source rather than spending 20 minutes summarizing
> (badly) what they found with Google News.
>
> Most sci/tech stories in the "big" media seem to suffer from this.
>
> </dumbjournalistsoapbox>
>
> 73 de Mark N9XTN
>
>
>
> On Tue, Nov 16, 2010 at 13:07, L. Paul Verhage <nearsys@...
> <mailto:nearsys@... <mailto:nearsys@...?> >> wrote:
>
> The Space Review has an interesting commentary on this issue. Seems we're not
> the only ones who think the media is over hyping near sapce launches.
>
> http://www.thespacereview.com/article/1726/1
>
> --
> Onwards and Upwards,
> Paul
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> --
> Onwards and Upwards,

> Paul
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

8934. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:35:57 UTC
From: Ron Meadows
Topic: 8922 Message: 8934

I have to go back to work, APRS run time is 25 hrs.

-Ron K6RPT

Michael Willett wrote:
> I am here too, just wondering what kind of battery life that APRS has,
> I would enjoy watching it go across as many states as it can!
>
> --Michael
> k5NOT
>
> On 11/18/2010 10:21 AM, Mark Caviezel wrote:
>> Joe:
>> I'm watching it. Should we have a betting pool to see if anyone
>> thinks it can overfly NV and make it to Utah?
>>
>> best
>>
>> - Mark
>>
>>
>> --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:
>>
>>
>> From: Joe <nss@...>
>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>> November 18, 2010 at 2:30 a.m. PST.
>> To: "GregC" <greg@...>
>> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>> Date: Thursday, November 18, 2010, 8:11 AM
>>
>> Am I the only one watching this flight?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 9:50 AM, Joe wrote:
>>> Hi Gang,
>>>
>>> OK, what altitude did the leveling off happen last time? wasn't

>>> it close to this altitude last time when it slowed down?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> http://www.idle-tyme.com
>>>
>>> On 11/18/2010 8:51 AM, GregC wrote:
>>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>>
>>>> -- Greg K7RKT
>>>>
>>>>
>>>> --- In Balloon_Sked@yahoogroups.com </mc/compose?to=Balloon_Sked@yahoogroups.com>, "k6rpt" <Ron@...> </mc/compose?to=Ron@...> wrote:
>>>>
>>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>
>>>>> http://www.CaliforniaNearSpaceProject.com
>>>>>
>>>>> -Ron K6RPT
>>>>>
>>>>>
>>>> ------------------------------------
>>>>
>>>> Yahoo! Groups Links
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>

8935. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:36:03 UTC
From: Joe
Topic: 8922 Message: 8935
Attachments: 1 described; binary payloads are missing from this source WARC

The question was NOT what altitude did it get to..

The question WAS, what altitude did the slowing and almost levelling
off happen at last time?

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 10:30 AM, Keith Kaiser wrote:
>
>
> I've already posted in the records page the highest altitude for the
> flight. Are you the only one watching ..... I don't think so.
>
>
> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
>
>>
>> How about balloon futures?
>> Balloon bellies?
>> Or near space futures?
>> Paul
>>
>> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...
>> <mailto:jerrygable@...>> wrote:
>>
>>
>>
>> A new money making idea, balloon lotto.
>>
>> ---
>> *From:* Mark Caviezel <kmcaviezel@...
>> <mailto:kmcaviezel@...>>
>> *To:* GregC <greg@... <mailto:greg@...>>; Joe
>> <nss@... <mailto:nss@...>>
>>
>> *Cc:* Balloon_Sked@yahoogroups.com
>> <mailto:Balloon_Sked@yahoogroups.com>; gpsl <GPSL@yahoogroups.com
>> <mailto:GPSL@yahoogroups.com>>

>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>
>> Joe:
>> I'm watching it. Should we have a betting pool to see if anyone
>> thinks it can overfly NV and make it to Utah?
>>
>> best
>>
>> - Mark
>>
>>
>> --- On *Thu, 11/18/10, Joe /<nss@... <mailto:nss@...>>/*
>> wrote:
>>
>>
>> From: Joe <nss@... <mailto:nss@...>>
>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>> November 18, 2010 at 2:30 a.m. PST.
>> To: "GregC" <greg@... <mailto:greg@...>>
>> Cc: Balloon_Sked@yahoogroups.com
>> <mailto:Balloon_Sked@yahoogroups.com>, "gpsl"
>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>> Date: Thursday, November 18, 2010, 8:11 AM
>>
>> Am I the only one watching this flight?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://idle-tyme.com/>
>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 11/18/2010 9:50 AM, Joe wrote:
>>> Hi Gang,
>>>
>>> OK, what altitude did the leveling off happen last time?
>>> wasn't it close to this altitude last time when it slowed down?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://Idle-Tyme.com>
>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>
>>> On 11/18/2010 8:51 AM, GregC wrote:
>>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit

further away than expected!!!
>>>>
>>>> -- Greg K7RKT
>>>>
>>>>
>>>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
>>>>
>>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>
>>>>> http://www.CaliforniaNearSpaceProject.com
<http://www.californianearspaceproject.com/>
>>>>>
>>>>>
>>>>> -Ron K6RPT
>>>>>
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>>>> ------------------------------------
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>>>> Yahoo! Groups Links
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>>>> (Yahoo! ID required)
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>> --
>> Onwards and Upwards,
>> Paul
>>
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>

8936. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:36:36 UTC
From: Tim
Topic: 8922 Message: 8936
Attachments: 2 described; binary payloads are missing from this source WARC

I would like to see go far as well, however I am not the one chasing it...

Tim
KJ6HSX

From: Michael Willett <mw@...>
To: GPSL@yahoogroups.com
Sent: Thu, November 18, 2010 8:32:17 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

I am here too, just wondering what kind of battery life that APRS has, I would enjoy watching it go across as many states as it can!

--Michael
k5NOT

On 11/18/2010 10:21 AM, Mark Caviezel wrote:
Joe:
>I'm watching it. Should we have a betting pool to see if anyone
>thinks it can overfly NV and make it to Utah?
>
>
>best
>
>- Mark
>
>
>--- On Thu, 11/18/10, Joe <nss@...> wrote:
>
>
>>From: Joe <nss@...>
>>Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>>November 18, 2010 at 2:30 a.m. PST.
>>To: "GregC" <greg@...>
>>Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>>Date: Thursday, November 18, 2010, 8:11 AM
>>
>>
>>Am I the only one watching this flight?
>>
>>Joe WB9SBD
>>

>>Sig
>>The Original Rolling Ball Clock
>>Idle Tyme
>>Idle-Tyme.com
>>http://www.idle-tyme.com
>>
>>On 11/18/2010 9:50 AM, Joe wrote:
>>Hi Gang,
>>>
>>>OK, what altitude did the leveling off happen last time?
>>>wasn't it close to this altitude last time when it slowed
>>>down?
>>>
>>>Joe WB9SBD
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>>>http://www.idle-tyme.com
>>>
>>>On 11/18/2010 8:51 AM, GregC wrote:
>>>This one's still in the air and slooooowly climbing -- looks like it's going to
>>>be bit further away than expected!!!
>>>>
>>>>-- Greg K7RKT
>>>>
>>>>
>>>>--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>>>>
>>>>California Near Space Project is preparing to launch K6RPT-11, another high
>>>>altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>
>>>>>
>>>>>http://www.CaliforniaNearSpaceProject.com -Ron K6RPT
>>>online go to: http://groups.yahoo.com/group/Balloon_Sked/join (Yahoo! ID
>>>

8937. RE: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:43:22 UTC
From: Steve D
Topic: 8922 Message: 8937
Attachments: 1 described; binary payloads are missing from this source WARC

I am watching as Lynn says, I try to watch as many as I can, currently willing the balloon to start going up again.

Steve

G6UIM

From: Balloon_Sked@yahoogroups.com [mailto:Balloon_Sked@yahoogroups.com] On Behalf Of Lynn W. Deffenbaugh (Mr)
Sent: 18 November 2010 16:24
To: Joe
Cc: GregC; Balloon_Sked@yahoogroups.com; gpsl
Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Negative. I'm watching, and I believe G6UIM is also monitoring from England. I just haven't had anything to add to your analysis. I'm holding my breath right now to see if it gets back above 114K which it did earlier (something like 114,403). 113,999 right now!

Lynn (D) - KJ4ERJ - Watching from Palm Bay, FL while working...

Joe wrote:

Am I the only one watching this flight?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/18/2010 9:50 AM, Joe wrote:

Hi Gang,

OK, what altitude did the leveling off happen last time? wasn't it close to this altitude last time when it slowed down?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme

Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/18/2010 8:51 AM, GregC wrote:

This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!

-- Greg K7RKT

--- In Balloon_Sked@yahoogroups.com, "k6rpt" <mailto:Ron@...> <Ron@...> wrote:

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.CaliforniaNearSpaceProject.com

-Ron K6RPT

Yahoo! Groups Links

8938. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:43:47 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8938
Attachments: 2 described; binary payloads are missing from this source WARC

Do you have a phone number on the capsule?

We should notify hams to keep an eye out for the near spacecraft. Someone
in Nevada (Utah??) may be able to recover the payload when it comes down.

Paul

On Thu, Nov 18, 2010 at 10:36 AM, Tim <sarbresam@...> wrote:

> I would like to see go far as well, however I am not the one chasing
> it...
>
> Tim
> KJ6HSX
>
>
> ------------------------------
> *From:* Michael Willett <mw@...>
> *To:* GPSL@yahoogroups.com
> *Sent:* Thu, November 18, 2010 8:32:17 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
>
> I am here too, just wondering what kind of battery life that APRS has, I
> would enjoy watching it go across as many states as it can!
>
> --Michael
> k5NOT
>
> On 11/18/2010 10:21 AM, Mark Caviezel wrote:
>
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone thinks it
> can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe <nss@...> <nss@...>* wrote:
>
>
> From: Joe <nss@...> <nss@...>

> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18,
> 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@...> <greg@...>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com><GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,
>
> OK, what altitude did the leveling off happen last time? wasn't it close
> to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 8:51 AM, GregC wrote:
>
> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>
> -- Greg K7RKT
>
>
> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
>
> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
>
> -Ron K6RPT
>
>
> ------------------------------------
>
> Yahoo! Groups Links

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--
Onwards and Upwards,
Paul

8939. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:44:56 UTC
From: Jerry Gable
Topic: 8922 Message: 8939
Attachments: 1 described; binary payloads are missing from this source WARC

Joe,

Back when we were first speculating on this flight we guessed 50% lift at 110K feet and 0 lift at 130K feet. I think we were off a little but I think this shows the internal pressure does limit the altitude.

Here is the thread http://groups.yahoo.com/group/GPSL/message/8443

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: Keith Kaiser <wa0tjt@...>
Sent: Thu, November 18, 2010 9:36:03 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

The question was NOT what altitude did it get to..

The question WAS, what altitude did the slowing and almost levelling off happen at last time?

Joe WB9SBD
Near Space Sciences

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 10:30 AM, Keith Kaiser wrote:
I've already posted in the records page the highest altitude for the flight. Are you the only one watching ..... I don't think so.

>
>
>
>
>On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
>
>
>>
>>

>>How about balloon futures?
>>Balloon bellies?
>>
>>Or near space futures?
>>
>>Paul
>>
>>
>>On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable
>><jerrygable@...> wrote:
>>
>>
>>>
>>>
>>>A new money making idea, balloon lotto.
>>>
>>>
>>>
>>>

From: Mark Caviezel <kmcaviezel@...>
>>>To: GregC <greg@...>; Joe <nss@...>
>>
>>>
>>>Cc: Balloon_Sked@yahoogroups.com; gpsl
>>><GPSL@yahoogroups.com>
>>>Sent: Thu, November 18, 2010 9:21:06 AM
>>>Subject: [GPSL] Re: [Balloon_Sked] Re: CNSP high
>>>altitude attempt on November 18, 2010 at 2:30 a.m.
>>>PST.
>>>
>>>
>>>
>>>Joe:
>>>I'm watching it. Should we have a
>>>betting pool to see if anyone thinks it
>>>can overfly NV and make it to Utah?
>>>
>>>
>>>best
>>>
>>>- Mark
>>>
>>>
>>>--- On Thu, 11/18/10, Joe <nss@...> wrote:
>>>
>>>
>>>>From: Joe <nss@...>
>>>>Subject: Re: [Balloon_Sked] Re: CNSP
>>>>high altitude attempt on November 18,

>>>>2010 at 2:30 a.m. PST.
>>>>To: "GregC" <greg@...>
>>>>Cc: Balloon_Sked@yahoogroups.com,
>>>>"gpsl" <GPSL@yahoogroups.com>
>>>>Date: Thursday, November 18, 2010,
>>>>8:11 AM
>>>>
>>>>
>>>>Am I the only one watching this
>>>>flight?
>>>>
>>>>Joe WB9SBD
>>>>
>>>>
>>>>The Original Rolling Ball
>>>>Clock
>>>>Idle Tyme
>>>>Idle-Tyme.com
>>>>http://www.idle-tyme.com
>>>>
>>>>On 11/18/2010 9:50 AM, Joe wrote:
>
>>>>Hi Gang,
>>>>>
>>>>>OK, what altitude did the leveling
>>>>>off happen last time? wasn't it
>>>>>close to this altitude last time
>>>>>when it slowed down?
>>>>>
>>>>>Joe WB9SBD
>>>>>
>>>>>
>>>>>The Original Rolling Ball
>>>>>Clock
>>>>>Idle Tyme
>>>>>Idle-Tyme.com
>>>>>http://www.idle-tyme.com
>>>>>
>>>>>On 11/18/2010 8:51 AM, GregC
>>>>>wrote:
>>>>>
>>>>>This one's still in the air and slooooowly climbing -- looks like it's going to
>>>>>be bit further away than expected!!!
>>>>>>
>>>>>>-- Greg K7RKT
>>>>>>
>>>>>>
>>>>>>--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>>>>>>
>>>>>>

>>>>>>California Near Space Project is preparing to launch K6RPT-11, another high
>>>>>>altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>>
>>>>>>>
>>>>>>>http://www.californianearspaceproject.com/ -Ron K6RPT
>>>>>online go to: http://groups.yahoo.com/group/Balloon_Sked/join (Yahoo!
>>>>>
>>>
>>>
>>
>>
>>--
>>Onwards and Upwards,
>>Paul
>>
>>
>>
>

8940. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:50:32 UTC
From: Joe
Topic: 8922 Message: 8940
Attachments: 2 described; binary payloads are missing from this source WARC

Thanks Jerry,

and this is fitting your numbers again is it not?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 10:44 AM, Jerry Gable wrote:
> Joe,
>
> Back when we were first speculating on this flight we guessed 50% lift
> at 110K feet and 0 lift at 130K feet. I think we were off a little
> but I think this shows the internal pressure does limit the altitude.
>
> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
>
> Jerry
>
>
> ---
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Keith Kaiser <wa0tjt@...>
> *Sent:* Thu, November 18, 2010 9:36:03 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
> attempt on November 18, 2010 at 2:30 a.m. PST.
>
> The question was NOT what altitude did it get to..
>
> The question WAS, what altitude did the slowing and almost levelling
> off happen at last time?
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://Idle-Tyme.com>
> http://www.idle-tyme.com
>

> On 11/18/2010 10:30 AM, Keith Kaiser wrote:
>> I've already posted in the records page the highest altitude for the
>> flight. Are you the only one watching ..... I don't think so.
>>
>>
>> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
>>
>>>
>>> How about balloon futures?
>>> Balloon bellies?
>>> Or near space futures?
>>> Paul
>>>
>>> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...
>>> <mailto:jerrygable@...>> wrote:
>>>
>>>
>>>
>>> A new money making idea, balloon lotto.
>>>
>>> ---
>>> *From:* Mark Caviezel <kmcaviezel@...
>>> <mailto:kmcaviezel@...>>
>>> *To:* GregC <greg@... <mailto:greg@...>>;
>>> Joe <nss@... <mailto:nss@...>>
>>>
>>> *Cc:* Balloon_Sked@yahoogroups.com
>>> <mailto:Balloon_Sked@yahoogroups.com>; gpsl
>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
>>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>>
>>> Joe:
>>> I'm watching it. Should we have a betting pool to see if
>>> anyone thinks it can overfly NV and make it to Utah?
>>>
>>> best
>>>
>>> - Mark
>>>
>>>
>>> --- On *Thu, 11/18/10, Joe /<nss@... <mailto:nss@...>>/*
>>> wrote:
>>>
>>>
>>> From: Joe <nss@... <mailto:nss@...>>
>>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt
>>> on November 18, 2010 at 2:30 a.m. PST.
>>> To: "GregC" <greg@... <mailto:greg@...>>

>>> Cc: Balloon_Sked@yahoogroups.com
>>> <mailto:Balloon_Sked@yahoogroups.com>, "gpsl"
>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>> Date: Thursday, November 18, 2010, 8:11 AM
>>>
>>> Am I the only one watching this flight?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://idle-tyme.com/>
>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>
>>> On 11/18/2010 9:50 AM, Joe wrote:
>>>> Hi Gang,
>>>>
>>>> OK, what altitude did the leveling off happen last time?
>>>> wasn't it close to this altitude last time when it slowed down?
>>>>
>>>> Joe WB9SBD
>>>>
>>>> The Original Rolling Ball Clock
>>>> Idle Tyme
>>>> Idle-Tyme.com <http://Idle-Tyme.com>
>>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>>
>>>> On 11/18/2010 8:51 AM, GregC wrote:
>>>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>>>
>>>>> -- Greg K7RKT
>>>>>
>>>>>
>>>>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
>>>>>
>>>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>>
>>>>>> http://www.californianearspaceproject.com/
>>>>>>
>>>>>>
>>>>>> -Ron K6RPT
>>>>>>
>>>>> ------------------------------------
>>>>>
>>>>> Yahoo! Groups Links
>>>>>
>>>>>
>>>>> (Yahoo! ID required)

>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>

8941. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 16:52:03 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8941
Attachments: 1 described; binary payloads are missing from this source WARC

So without enough extra pressure, the helium inside the balloon can't cause
the latex to stretch any further?

Can we figure out a safe minimum lift for the balloon?

On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable <jerrygable@...> wrote:

> Joe,
>
> Back when we were first speculating on this flight we guessed 50% lift at
> 110K feet and 0 lift at 130K feet. I think we were off a little but I think
> this shows the internal pressure does limit the altitude.
>
> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
>
> Jerry
>
>
> ------------------------------
> *From:* Joe <nss@...>
> *To:* GPSL@yahoogroups.com
> *Cc:* Keith Kaiser <wa0tjt@...>
> *Sent:* Thu, November 18, 2010 9:36:03 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
>
> The question was NOT what altitude did it get to..
>
> The question WAS, what altitude did the slowing and almost levelling off
> happen at last time?
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com
>
> On 11/18/2010 10:30 AM, Keith Kaiser wrote:
>
> I've already posted in the records page the highest altitude for the
> flight. Are you the only one watching ..... I don't think so.

>
>
> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
>
>
>
> How about balloon futures?
> Balloon bellies?
>
> Or near space futures?
>
> Paul
>
> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...>wrote:
>
>>
>>
>> A new money making idea, balloon lotto.
>>
>> ------------------------------
>> *From:* Mark Caviezel <kmcaviezel@...>
>> *To:* GregC <greg@...>; Joe <nss@...>
>>
>> *Cc:* Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>> November 18, 2010 at 2:30 a.m. PST.
>>
>> Joe:
>> I'm watching it. Should we have a betting pool to see if anyone thinks
>> it can overfly NV and make it to Utah?
>>
>> best
>>
>> - Mark
>>
>>
>> --- On *Thu, 11/18/10, Joe <nss@...>* wrote:
>>
>>
>> From: Joe <nss@...>
>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18,
>> 2010 at 2:30 a.m. PST.
>> To: "GregC" <greg@...>
>> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>> Date: Thursday, November 18, 2010, 8:11 AM
>>
>> Am I the only one watching this flight?
>>
>> Joe WB9SBD

>>
>> The Original Rolling Ball Clock
>> Idle Tyme
>> Idle-Tyme.com <http://idle-tyme.com/>
>> http://www.idle-tyme.com
>>
>> On 11/18/2010 9:50 AM, Joe wrote:
>>
>> Hi Gang,
>>
>> OK, what altitude did the leveling off happen last time? wasn't it close
>> to this altitude last time when it slowed down?
>>
>> Joe WB9SBD
>>
>> The Original Rolling Ball Clock
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>>
>> On 11/18/2010 8:51 AM, GregC wrote:
>>
>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>>
>> -- Greg K7RKT
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>> --- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
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>> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
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>> http://www.californianearspaceproject.com/
>>
>>
>> -Ron K6RPT
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>> (Yahoo! ID required)
>>
>>
>> Balloon_Sked-unsubscribe@yahoogroups.com
>>
>>

>>
>>
>>
>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Onwards and Upwards,
Paul

8942. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:03:53 UTC
From: Michael Willett
Topic: 8922 Message: 8942
Attachments: 1 described; binary payloads are missing from this source WARC

Exactly. The latex mechanical maximum, the point that the latex is starting to be incapable of further expansion will result in a slight compression of the helium, possibly reaching equilibrium. This is what I explained at GPSL this year with the sudden increase in pressure just before burst. This has been verified by a few of us by monitoring the envelope pressure. I think this holds true with all balloons of this type though it is harder to observe, such as with the smaller 600 gr balloons.

--Michael
K5NOT

On 11/18/2010 10:52 AM, L. Paul Verhage wrote:
> So without enough extra pressure, the helium inside the balloon can't
> cause the latex to stretch any further?
> Can we figure out a safe minimum lift for the balloon?
>
> On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable <jerrygable@...
> <mailto:jerrygable@...>> wrote:
>
> Joe,
>
> Back when we were first speculating on this flight we guessed 50%
> lift at 110K feet and 0 lift at 130K feet. I think we were off a
> little but I think this shows the internal pressure does limit the
> altitude.
>
> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
>
> Jerry
>
>
> ---
> *From:* Joe <nss@... <mailto:nss@...>>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Keith Kaiser <wa0tjt@... <mailto:wa0tjt@...>>
> *Sent:* Thu, November 18, 2010 9:36:03 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
> attempt on November 18, 2010 at 2:30 a.m. PST.
>
> The question was NOT what altitude did it get to..
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> levelling off happen at last time?
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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> On 11/18/2010 10:30 AM, Keith Kaiser wrote:
>> I've already posted in the records page the highest altitude for
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>>
>> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
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>>>
>>> How about balloon futures?
>>> Balloon bellies?
>>> Or near space futures?
>>> Paul
>>>
>>> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable
>>> <jerrygable@... <mailto:jerrygable@...>> wrote:
>>>
>>>
>>>
>>> A new money making idea, balloon lotto.
>>>
>>> ---
>>> *From:* Mark Caviezel <kmcaviezel@...
>>> <mailto:kmcaviezel@...>>
>>> *To:* GregC <greg@...
>>> <mailto:greg@...>>; Joe <nss@...
>>> <mailto:nss@...>>
>>>
>>> *Cc:* Balloon_Sked@yahoogroups.com
>>> <mailto:Balloon_Sked@yahoogroups.com>; gpsl
>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
>>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>>
>>> Joe:
>>> I'm watching it. Should we have a betting pool to see if
>>> anyone thinks it can overfly NV and make it to Utah?
>>>
>>> best
>>>

>>> - Mark
>>>
>>>
>>> --- On *Thu, 11/18/10, Joe /<nss@...
>>> <mailto:nss@...>>/* wrote:
>>>
>>>
>>> From: Joe <nss@... <mailto:nss@...>>
>>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude
>>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>> To: "GregC" <greg@... <mailto:greg@...>>
>>> Cc: Balloon_Sked@yahoogroups.com
>>> <mailto:Balloon_Sked@yahoogroups.com>, "gpsl"
>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>> Date: Thursday, November 18, 2010, 8:11 AM
>>>
>>> Am I the only one watching this flight?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://idle-tyme.com/>
>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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>>> On 11/18/2010 9:50 AM, Joe wrote:
>>>> Hi Gang,
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>>>> OK, what altitude did the leveling off happen last
>>>> time? wasn't it close to this altitude last time when
>>>> it slowed down?
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>>>>> -- Greg K7RKT
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>>>>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
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>>>>>
>>>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude

attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>>
>>>>>> http://www.californianearspaceproject.com/
>>>>>>
>>>>>>
>>>>>> -Ron K6RPT
>>>>>>
>>>>> ------------------------------------
>>>>>
>>>>> Yahoo! Groups Links
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>>>>>
>>>>> (Yahoo! ID required)
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>>>>>
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>>>>>
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>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>
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> --
> Onwards and Upwards,
> Paul
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8943. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:07:56 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8943
Attachments: 1 described; binary payloads are missing from this source WARC

We use to think that using less helium to start with gave the balloon more
room to exapnd and let it reach a high altitude.

Does this mean that the balloon has reached it max altitude, even if it had
a little extra helium inside?

Paul

On Thu, Nov 18, 2010 at 11:03 AM, Michael Willett <mw@...> wrote:

> Exactly. The latex mechanical maximum, the point that the latex is starting
> to be incapable of further expansion will result in a slight compression of
> the helium, possibly reaching equilibrium. This is what I explained at GPSL
> this year with the sudden increase in pressure just before burst. This has
> been verified by a few of us by monitoring the envelope pressure. I think
> this holds true with all balloons of this type though it is harder to
> observe, such as with the smaller 600 gr balloons.
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> --Michael
> K5NOT
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> On 11/18/2010 10:52 AM, L. Paul Verhage wrote:
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> So without enough extra pressure, the helium inside the balloon can't cause
> the latex to stretch any further?
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> Can we figure out a safe minimum lift for the balloon?
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> On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable <jerrygable@...>wrote:
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>> Joe,
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>> Back when we were first speculating on this flight we guessed 50% lift at
>> 110K feet and 0 lift at 130K feet. I think we were off a little but I think
>> this shows the internal pressure does limit the altitude.
>>
>> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
>>
>> Jerry
>>
>>
>> ------------------------------
>> *From:* Joe <nss@...>

>> *To:* GPSL@yahoogroups.com
>> *Cc:* Keith Kaiser <wa0tjt@...>
>> *Sent:* Thu, November 18, 2010 9:36:03 AM
>> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt
>> on November 18, 2010 at 2:30 a.m. PST.
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>> The question was NOT what altitude did it get to..
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>> The question WAS, what altitude did the slowing and almost levelling off
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>> Joe WB9SBD
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>> flight. Are you the only one watching ..... I don't think so.
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>> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
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>> How about balloon futures?
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>> Paul
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>> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...>wrote:
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>>>
>>>
>>> A new money making idea, balloon lotto.
>>>
>>> ------------------------------
>>> *From:* Mark Caviezel <kmcaviezel@...>
>>> *To:* GregC <greg@...>; Joe <nss@...>
>>>
>>> *Cc:* Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
>>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>>> November 18, 2010 at 2:30 a.m. PST.

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>>> Joe:
>>> I'm watching it. Should we have a betting pool to see if anyone thinks
>>> it can overfly NV and make it to Utah?
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>>> --- On *Thu, 11/18/10, Joe <nss@...>* wrote:
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>>> From: Joe <nss@...>
>>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November
>>> 18, 2010 at 2:30 a.m. PST.
>>> To: "GregC" <greg@...>
>>> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>>> Date: Thursday, November 18, 2010, 8:11 AM
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Onwards and Upwards,
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8944. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:09:54 UTC
From: Joe
Topic: 8922 Message: 8944
Attachments: 2 described; binary payloads are missing from this source WARC

1900Z should be an interesting time to watch if it' still up then.
right then should be about max heating from the sun. after that it will
start to loose some of the heating and see if it starts to slowly lower
or not.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 11:03 AM, Michael Willett wrote:
> Exactly. The latex mechanical maximum, the point that the latex is
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> just before burst. This has been verified by a few of us by monitoring
> the envelope pressure. I think this holds true with all balloons of
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>> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
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>> ---
>> *From:* Joe <nss@... <mailto:nss@...>>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Cc:* Keith Kaiser <wa0tjt@... <mailto:wa0tjt@...>>
>> *Sent:* Thu, November 18, 2010 9:36:03 AM
>> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
>> attempt on November 18, 2010 at 2:30 a.m. PST.
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>>>> <mailto:kmcaviezel@...>>
>>>> *To:* GregC <greg@...
>>>> <mailto:greg@...>>; Joe <nss@...
>>>> <mailto:nss@...>>
>>>>

>>>> *Cc:* Balloon_Sked@yahoogroups.com
>>>> <mailto:Balloon_Sked@yahoogroups.com>; gpsl
>>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>>> *Sent:* Thu, November 18, 2010 9:21:06 AM
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>>>> To: "GregC" <greg@...
>>>> <mailto:greg@...>>
>>>> Cc: Balloon_Sked@yahoogroups.com
>>>> <mailto:Balloon_Sked@yahoogroups.com>, "gpsl"
>>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>>> Date: Thursday, November 18, 2010, 8:11 AM
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8945. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:11:18 UTC
From: Joe
Topic: 8922 Message: 8945
Attachments: 2 described; binary payloads are missing from this source WARC

It's must be running into something that is stopping it. different
temp, wind shear, something. it shouldn't be at the limit of
stretching again yet.

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 11:07 AM, L. Paul Verhage wrote:
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> We use to think that using less helium to start with gave the balloon
> more room to exapnd and let it reach a high altitude.
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> increase in pressure just before burst. This has been verified by
> a few of us by monitoring the envelope pressure. I think this
> holds true with all balloons of this type though it is harder to
> observe, such as with the smaller 600 gr balloons.
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> --Michael
> K5NOT
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> On 11/18/2010 10:52 AM, L. Paul Verhage wrote:
>> So without enough extra pressure, the helium inside the balloon
>> can't cause the latex to stretch any further?
>> Can we figure out a safe minimum lift for the balloon?
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>> On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable
>> <jerrygable@... <mailto:jerrygable@...>> wrote:
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>> Joe,
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>> Back when we were first speculating on this flight we guessed
>> 50% lift at 110K feet and 0 lift at 130K feet. I think we
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>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Cc:* Keith Kaiser <wa0tjt@... <mailto:wa0tjt@...>>
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>>>> *To:* GregC <greg@...
>>>> <mailto:greg@...>>; Joe <nss@...
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>>>> Cc: Balloon_Sked@yahoogroups.com
>>>> <mailto:Balloon_Sked@yahoogroups.com>, "gpsl"
>>>> <GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>>
>>>> Date: Thursday, November 18, 2010, 8:11 AM
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8946. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:16:32 UTC
From: Jerry Gable
Topic: 8922 Message: 8946
Attachments: 1 described; binary payloads are missing from this source WARC

Less helium will allow the balloon to rise farther up to a point. At some point the delta pressure on the balloon reduces the lift because the helium is slightly denser from pressure than the air around it. This happens around 100K feet from what I have seen.

As for the increase in pressure at the maximum stretch, that makes it worse but at some point even the pressure before this point starts to affect lift.

I want to put together something that allows this to be more easily predicted but I haven't had the time or data yet to do it. Since my cruise (Carnival Splender) has now been canceled maybe I can work on this some next week.

From: L. Paul Verhage <nearsys@...>
To: GPSL@yahoogroups.com
Sent: Thu, November 18, 2010 10:07:56 AM
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

We use to think that using less helium to start with gave the balloon more room to exapnd and let it reach a high altitude.

Does this mean that the balloon has reached it max altitude, even if it had a little extra helium inside?

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>>>>>>
>>>>>>From: Joe <nss@...>
>>>>>>Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010
>>>>>>at 2:30 a.m. PST.

>>>>>>>To: "GregC" <greg@...>
>>>>>>>Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>>>>>>>Date: Thursday, November 18, 2010, 8:11 AM
>>>>>>>
>>>>>>>
>>>>>>>Am I the only one watching this flight?
>>>>>>>
>>>>>>>Joe WB9SBD
>>>>>>>
>>>>>>>
>>>>>>>The Original Rolling Ball Clock
>>>>>>>Idle Tyme
>>>>>>>Idle-Tyme.com
>>>>>>>http://www.idle-tyme.com
>>>>>>>
>>>>>>>On 11/18/2010 9:50 AM, Joe wrote:
>>>>>>>Hi Gang,
>>>>>>>>
>>>>>>>>OK, what altitude did the leveling off happen last time? wasn't it close to
>>>>>>>>this altitude last time when it slowed down?
>>>>>>>>
>>>>>>>>Joe WB9SBD
>>>>>>>>
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>>>>>>>>On 11/18/2010 8:51 AM, GregC wrote:
>>>>>>>>This one's still in the air and slooooowly climbing -- looks like it's going to
>>>>>>>>be bit further away than expected!!!
>>>>>>>>>
>>>>>>>>>-- Greg K7RKT
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>California Near Space Project is preparing to launch K6RPT-11, another high
>>>>>>>>>>altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>>>>>>>>
>>>>>>>>>>
>>>>>>>>>>http://www.californianearspaceproject.com/ -Ron K6RPT
>>>>>>>>>>------------------------------------
>>>>>>>>>>
>>>>>>>>>>Yahoo! Groups Links
>>>>>>>>>>
>>>>>>>>>>

>>>>>>
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>>>>>
>>>>>
>>>>>--
>>>>>Onwards and Upwards,
>>>>>Paul
>>>>>
>>>>>
>>>>>
>>>>
>>
>>
>>--
>>Onwards and Upwards,
>>Paul
>>

--
Onwards and Upwards,
Paul

8947. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:16:38 UTC
From: Mark Conner
Topic: 8922 Message: 8947
Attachments: 1 described; binary payloads are missing from this source WARC

One thing you have to account for is that you'll hit the same air density at a lower altitude this time of year. Colder denser air and all that.

I think you'll hit a fundamental limit which will be most closely related to air density. An identical setup will reach a higher GPS-indicated altitude in the summer than it will in the winter. The best altitudes will likely be reached when launched into a stout vertically-stacked high pressure area in the summer.

73 de Mark N9XTN

On Thu, Nov 18, 2010 at 11:11, Joe <nss@...> wrote:

> It's must be running into something that is stopping it. different temp,
> wind shear, something. it shouldn't be at the limit of stretching again
> yet.
>
>
> Joe WB9SBD
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 11:07 AM, L. Paul Verhage wrote:
>
> We use to think that using less helium to start with gave the balloon more
> room to exapnd and let it reach a high altitude.
>
> Does this mean that the balloon has reached it max altitude, even if it had
> a little extra helium inside?
>
> Paul
>
>

8948. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:25:06 UTC
From: Mark Conner
Topic: 8922 Message: 8948

Sneaking back upwards now to the 114,400-ish range.

8949. RE: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:38:02 UTC
From: DON FRASER
Topic: 8922 Message: 8949

I'm also tracking and wonder if the balloon will stay aloft long enough to make western Colorado (5 hours). If so, I would hope it stays up another 3+ hours to make it to I-25 and the front range where there is a chance of recovery versus landing in the Rocky Mountains.

Don, WA9WWS

To: GPSL@yahoogroups.com
From: mconner1@...
Date: Thu, 18 Nov 2010 11:25:06 -0600
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Sneaking back upwards now to the 114,400-ish range.

8950. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:45:54 UTC
From: BASE
Topic: 8922 Message: 8950
Attachments: 1 described; binary payloads are missing from this source WARC

I think that the various pressure increase measurements that Michael, Jerry, the Minnesota students, and others have obtained, it is safe to say that the latex response to stretching is not linear. It seems reasonable that the small amount of helium in the balloon cannot supply the required force to stretch the balloon to the breaking point.
The initial helium gas fill was about 120 cubic feet and the burst volume for the 3000 gram balloon is almost 41,000 cubic feet. Using the ideal gas law, the force per square centimeter at burst volume would only be 0.03 Newtons.
I'll try to revisit the breaking force data that my students looked at earlier in the fall, but I think that the required force was bigger than 0.03 Newtons.
Howard
--- On Thu, 11/18/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
To: GPSL@yahoogroups.com
Date: Thursday, November 18, 2010, 11:52 AM

So without enough extra pressure, the helium inside the balloon can't cause the latex to stretch any further?

Can we figure out a safe minimum lift for the balloon?

On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable <jerrygable@...> wrote:

Joe,

Back when we were first speculating on this flight we guessed 50% lift at 110K feet and 0 lift at 130K feet. I think we were off a little but I think this shows the internal pressure does limit the altitude.

Here is the thread http://groups.yahoo.com/group/GPSL/message/8443

Jerry

From: Joe <nss@...>
To: GPSL@yahoogroups.com

Cc: Keith Kaiser <wa0tjt@...>
Sent: Thu, November 18, 2010 9:36:03 AM

Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

The question was NOT what altitude did it get to..

The question WAS, what altitude did the slowing and almost levelling off happen at last time?

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock

Idle Tyme
Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010 10:30 AM, Keith Kaiser wrote:
I've already posted in the records page the highest altitude for the flight. Are you the only one watching ..... I don't think so.

On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:

How about balloon futures?
Balloon bellies?

Or near space futures?

Paul

On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...> wrote:

A new money making idea, balloon lotto.

From: Mark Caviezel <kmcaviezel@yahoo.com>
To: GregC <greg@...>; Joe <nss@...>

Cc: Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>

Sent: Thu, November 18, 2010 9:21:06 AM
Subject: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Joe:
I'm watching it.   Should we have a betting pool to see if anyone thinks it can overfly NV and make it to Utah?

best

- Mark

--- On Thu, 11/18/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

To: "GregC" <greg@...>
Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>

Date: Thursday, November 18, 2010, 8:11 AM

Am I the only one watching this flight?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme

Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 9:50 AM, Joe wrote:
Hi Gang,

OK, what altitude did the leveling off happen last time? wasn't it close to this altitude last time when it slowed down?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme

Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 8:51 AM, GregC wrote:
This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!

-- Greg K7RKT

--- In Balloon_Sked@...m, "k6rpt" <Ron@...> wrote:

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.californianearspaceproject.com/

-Ron K6RPT

Yahoo! Groups Links

(Yahoo! ID required)

Balloon_Sked-unsubscribe@yahoogroups.com

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

8951. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:46:29 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8951

Come to Kansas!

On Thu, Nov 18, 2010 at 11:38 AM, DON FRASER <wa9wws@...> wrote:

>
>
> I'm also tracking and wonder if the balloon will stay aloft long enough to
> make western Colorado (5 hours). If so, I would hope it stays up another 3+
> hours to make it to I-25 and the front range where there is a chance of
> recovery versus landing in the Rocky Mountains.
>
> Don, WA9WWS
>
> ------------------------------
> To: GPSL@yahoogroups.com
> From: mconner1@...
> Date: Thu, 18 Nov 2010 11:25:06 -0600
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
>
>
> Sneaking back upwards now to the 114,400-ish range.
>
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

8952. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:48:14 UTC
From: Joe
Topic: 8922 Message: 8952
Attachments: 2 described; binary payloads are missing from this source WARC

0.03 newt to Psi please?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 11:45 AM, BASE wrote:
> I think that the various pressure increase measurements that Michael,
> Jerry, the Minnesota students, and others have obtained, it is safe to
> say that the latex response to stretching is not linear. It seems
> reasonable that the small amount of helium in the balloon cannot
> supply the required force to stretch the balloon to the breaking point.
>
> The initial helium gas fill was about 120 cubic feet and the burst
> volume for the 3000 gram balloon is almost 41,000 cubic feet. Using
> the ideal gas law, the force per square centimeter at burst volume
> would only be 0.03 Newtons.
>
> I'll try to revisit the breaking force data that my students looked at
> earlier in the fall, but I think that the required force was bigger
> than 0.03 Newtons.
>
> Howard
>
> --- On *Thu, 11/18/10, L. Paul Verhage /<nearsys@...>/* wrote:
>
>
> From: L. Paul Verhage <nearsys@...>
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
> attempt on November 18, 2010 at 2:30 a.m. PST.
> To: GPSL@yahoogroups.com
> Date: Thursday, November 18, 2010, 11:52 AM
>
> So without enough extra pressure, the helium inside the balloon
> can't cause the latex to stretch any further?
> Can we figure out a safe minimum lift for the balloon?
>
> On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable
> <jerrygable@... </mc/compose?to=jerrygable@...>> wrote:
>
> Joe,
>

> Back when we were first speculating on this flight we guessed
> 50% lift at 110K feet and 0 lift at 130K feet. I think we
> were off a little but I think this shows the internal pressure
> does limit the altitude.
>
> Here is the thread
> http://groups.yahoo.com/group/GPSL/message/8443
>
> Jerry
>
>
> ---
> *From:* Joe <nss@... </mc/compose?to=nss@...>>
> *To:* GPSL@yahoogroups.com </mc/compose?to=GPSL@yahoogroups.com>
> *Cc:* Keith Kaiser <wa0tjt@...
> </mc/compose?to=wa0tjt@...>>
> *Sent:* Thu, November 18, 2010 9:36:03 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high
> altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>
> The question was NOT what altitude did it get to..
>
> The question WAS, what altitude did the slowing and almost
> levelling off happen at last time?
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com <http://idle-tyme.com/>
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
> On 11/18/2010 10:30 AM, Keith Kaiser wrote:
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>> for the flight. Are you the only one watching ..... I don't
>> think so.
>>
>>
>> On Nov 18, 2010, at 10:28 AM, L. Paul Verhage wrote:
>>
>>>
>>> How about balloon futures?
>>> Balloon bellies?
>>> Or near space futures?
>>> Paul
>>>
>>> On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable
>>> <jerrygable@... </mc/compose?to=jerrygable@...>>
>>> wrote:

>>>
>>>
>>>
>>> A new money making idea, balloon lotto.
>>>
>>> ---
>>> *From:* Mark Caviezel <kmcaviezel@...
>>> </mc/compose?to=kmcaviezel@...>>
>>> *To:* GregC <greg@...
>>> </mc/compose?to=greg@...>>; Joe <nss@...
>>> </mc/compose?to=nss@...>>
>>>
>>> *Cc:* Balloon_Sked@yahoogroups.com
>>> </mc/compose?to=Balloon_Sked@yahoogroups.com>; gpsl
>>> <GPSL@yahoogroups.com </mc/compose?to=GPSL@yahoogroups.com>>
>>> *Sent:* Thu, November 18, 2010 9:21:06 AM
>>> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high
>>> altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>
>>> Joe:
>>> I'm watching it. Should we have a betting pool to see
>>> if anyone thinks it can overfly NV and make it to Utah?
>>>
>>> best
>>>
>>> - Mark
>>>
>>>
>>> --- On *Thu, 11/18/10, Joe /<nss@...
>>> </mc/compose?to=nss@...>>/* wrote:
>>>
>>>
>>> From: Joe <nss@... </mc/compose?to=nss@...>>
>>> Subject: Re: [Balloon_Sked] Re: CNSP high altitude
>>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>> To: "GregC" <greg@...
>>> </mc/compose?to=greg@...>>
>>> Cc: Balloon_Sked@yahoogroups.com
>>> </mc/compose?to=Balloon_Sked@yahoogroups.com>,
>>> "gpsl" <GPSL@yahoogroups.com
>>> </mc/compose?to=GPSL@yahoogroups.com>>
>>> Date: Thursday, November 18, 2010, 8:11 AM
>>>
>>> Am I the only one watching this flight?
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>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com <http://idle-tyme.com/>

>>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>>
>>> On 11/18/2010 9:50 AM, Joe wrote:
>>>> Hi Gang,
>>>>
>>>> OK, what altitude did the leveling off happen last
>>>> time? wasn't it close to this altitude last time
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>>>>>
>>>>>
>>>>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
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>>>>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude
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>>>>>> http://www.californianearspaceproject.com/
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>>>>>>
>>>>>> -Ron K6RPT
>>>>>>
>>>>> ------------------------------------
>>>>>
>>>>> Yahoo! Groups Links
>>>>>
>>>>>
>>>>> (Yahoo! ID required)
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>
>>>
>>>
>>>
>>>

>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

8953. Canon Camera As A Video Player

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:53:25 UTC
From: Joe
Topic: 8953 Message: 8953
Attachments: 1 described; binary payloads are missing from this source WARC

UPDATE!

I tried the small "Bill" and the Bikini video as a test, and that posting I made the other day describing some programs to use, as well as a Russian site for instructions. IT WORKS!!!!!

Bill and the bikini is on my Canon Cameras now and it Plays great!

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8954. RE: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:53:12 UTC
From: DON FRASER
Topic: 8922 Message: 8954
Attachments: 2 described; binary payloads are missing from this source WARC

Joe; You'll need to know if its newtons per sq cm or sq m, and then use a converter like: http://www.translatorscafe.com/cafe/units-converter/pressure

To: GPSL@yahoogroups.com
CC: basedepauw@...
From: nss@...
Date: Thu, 18 Nov 2010 11:48:14 -0600
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

0.03 newt to Psi please?

The Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com

On 11/18/2010 11:45 AM, BASE wrote:

I think that the various pressure increase measurements that Michael, Jerry, the Minnesota students, and others have obtained, it is safe to say that the latex response to stretching is not linear. It seems reasonable that the small amount of helium in the balloon cannot supply the required force to stretch the balloon to the breaking point.

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I'll try to revisit the breaking force data that my students looked at earlier in the fall, but I think that the required force was bigger than 0.03 Newtons.

Howard

--- On Thu, 11/18/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
To: GPSL@yahoogroups.com
Date: Thursday, November 18, 2010, 11:52 AM

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Near Space Sciences

The Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com

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Balloon bellies?

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Paul

On Thu, Nov 18, 2010 at 10:26 AM, Jerry Gable <jerrygable@...> wrote:

A new money making idea, balloon lotto.

From: Mark Caviezel <kmcaviezel@...>
To: GregC <greg@...>; Joe <nss@...>

Cc: Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>
Sent: Thu, November 18, 2010 9:21:06 AM
Subject: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

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The Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com

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The Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com

On 11/18/2010 8:51 AM, GregC wrote:
This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!

-- Greg K7RKT

--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:

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http://www.californianearspaceproject.com/

-Ron K6RPT

Yahoo! Groups Links

(Yahoo! ID required)

Balloon_Sked-unsubscribe@yahoogroups.com

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,

Paul

8955. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:55:18 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8955
Attachments: 2 described; binary payloads are missing from this source WARC

1 N = 0.2248 pounds.

We'll need to know over how much area the 0.03N is applied.

Paul

On Thu, Nov 18, 2010 at 11:48 AM, Joe <nss@...> wrote:

> 0.03 newt to Psi please?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 11:45 AM, BASE wrote:
>
> I think that the various pressure increase measurements that Michael,
> Jerry, the Minnesota students, and others have obtained, it is safe to say
> that the latex response to stretching is not linear. It seems reasonable
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> force to stretch the balloon to the breaking point.
>
> The initial helium gas fill was about 120 cubic feet and the burst volume
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> 0.03 Newtons.
>
> Howard
>
> --- On *Thu, 11/18/10, L. Paul Verhage <nearsys@...><nearsys@...>
> * wrote:
>
>
>
> From: L. Paul Verhage <nearsys@...> <nearsys@...>
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
> To: GPSL@yahoogroups.com
> Date: Thursday, November 18, 2010, 11:52 AM
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>
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> > wrote:
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> this shows the internal pressure does limit the altitude.
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> Here is the thread http://groups.yahoo.com/group/GPSL/message/8443
>
> Jerry
>
>
> ------------------------------
> *From:* Joe <nss@... <http://mc/compose?to=nss@...>>
> *To:* GPSL@yahoogroups.com <http://mc/compose?to=GPSL@yahoogroups.com>
> *Cc:* Keith Kaiser <wa0tjt@...<http://mc/compose?to=wa0tjt@...>
> >
> *Sent:* Thu, November 18, 2010 9:36:03 AM
> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> November 18, 2010 at 2:30 a.m. PST.
>
> The question was NOT what altitude did it get to..
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> The question WAS, what altitude did the slowing and almost levelling off
> happen at last time?
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> Joe WB9SBD
> Near Space Sciences
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> The Original Rolling Ball Clock
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> How about balloon futures?
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>
> Or near space futures?
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> > wrote:
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>
> A new money making idea, balloon lotto.
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> ------------------------------
> *From:* Mark Caviezel <kmcaviezel@...<http://mc/compose?to=kmcaviezel@...>
> >
> *To:* GregC <greg@... <http://mc/compose?to=greg@...>>;
> Joe <nss@... <http://mc/compose?to=nss@...>>
>
> *Cc:* Balloon_Sked@yahoogroups.com<http://mc/compose?to=Balloon_Sked@yahoogroups.com>;
> gpsl <GPSL@yahoogroups.com <http://mc/compose?to=GPSL@yahoogroups.com>>
> *Sent:* Thu, November 18, 2010 9:21:06 AM
> *Subject:* [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on
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> - Mark
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> 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@... <http://mc/compose?to=greg@...>>
> Cc: Balloon_Sked@yahoogroups.com<http://mc/compose?to=Balloon_Sked@yahoogroups.com>,
> "gpsl" <GPSL@yahoogroups.com <http://mc/compose?to=GPSL@yahoogroups.com>>
> Date: Thursday, November 18, 2010, 8:11 AM

>
> Am I the only one watching this flight?
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> http://www.idle-tyme.com
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> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,
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> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
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> California Near Space Project is preparing to launch K6RPT-11, another high altitude
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> http://www.californianearspaceproject.com/
>
>
> -Ron K6RPT
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>
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>
> Yahoo! Groups Links
>
>
> (Yahoo! ID required)

>
>
> Balloon_Sked-unsubscribe@yahoogroups.com
>
>
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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

8956. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 17:56:43 UTC
From: Joe
Topic: 8922 Message: 8956
Attachments: 3 described; binary payloads are missing from this source WARC

I know I was just being lazy thinking someone already had it. and was
curious as to how it compares to my test measurements that came in psi
numbers

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 11:53 AM, DON FRASER wrote:
>
>
> Joe; You'll need to know if its newtons per sq cm or sq m, and
> then use a converter like:
> http://www.translatorscafe.com/cafe/units-converter/pressure
>
> ---
> To: GPSL@yahoogroups.com
> CC: basedepauw@...
> From: nss@...
> Date: Thu, 18 Nov 2010 11:48:14 -0600
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt
> on November 18, 2010 at 2:30 a.m. PST.
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> http://www.idle-tyme.com <http://www.idle-tyme.com/>
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> On 11/18/2010 11:45 AM, BASE wrote:
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> I think that the various pressure increase measurements that
> Michael, Jerry, the Minnesota students, and others have obtained,
> it is safe to say that the latex response to stretching is not
> linear. It seems reasonable that the small amount of helium in
> the balloon cannot supply the required force to stretch the
> balloon to the breaking point.
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> The initial helium gas fill was about 120 cubic feet and the burst

> volume for the 3000 gram balloon is almost 41,000 cubic feet.
> Using the ideal gas law, the force per square centimeter at burst
> volume would only be 0.03 Newtons.
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> <mailto:nearsys@...>/* wrote:
>
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> From: L. Paul Verhage <nearsys@...>
> <mailto:nearsys@...>
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
> attempt on November 18, 2010 at 2:30 a.m. PST.
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 11:52 AM
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> balloon can't cause the latex to stretch any further?
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> A new money making idea, balloon lotto.
>
> ---
> *From:* Mark Caviezel <kmcaviezel@...
> <http:///mc/compose?to=kmcaviezel@...>>
> *To:* GregC <greg@...
> <http:///mc/compose?to=greg@...>>;
> Joe <nss@...
> <http:///mc/compose?to=nss@...>>
>
> *Cc:* Balloon_Sked@yahoogroups.com
> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>;
> gpsl <GPSL@yahoogroups.com
> <http:///mc/compose?to=GPSL@yahoogroups.com>>

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> Cc: Balloon_Sked@yahoogroups.com
> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>,
> "gpsl" <GPSL@yahoogroups.com
> <http:///mc/compose?to=GPSL@yahoogroups.com>>
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> Onwards and Upwards,

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8957. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 18:00:18 UTC
From: Joe
Topic: 8922 Message: 8957
Attachments: 3 described; binary payloads are missing from this source WARC

OF COURSE 0.03 NEWT PER WHAT?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

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> CC: basedepauw@...
> From: nss@...
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> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt
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> it is safe to say that the latex response to stretching is not
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> *Cc:* Balloon_Sked@yahoogroups.com
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> Cc: Balloon_Sked@yahoogroups.com
> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>,
> "gpsl" <GPSL@yahoogroups.com
> <http:///mc/compose?to=GPSL@yahoogroups.com>>
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> Onwards and Upwards,
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8958. Re: CNSP high altitude attempt - UPPER LEVEL WINDS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 18:37:19 UTC
From: Michael Willett
Topic: 8922 Message: 8958

96 MPH at 115K feet! That balloon is cooking right along!

I guess now you start to think that actually, the balloon is going slower than the earth is spinning!

8959. We Got Utah

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 18:49:51 UTC
From: Joe
Topic: 8959 Message: 8959
Attachments: 1 described; binary payloads are missing from this source WARC

Well it's made it into Utah!

Joe WB9SBD
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

8960. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 18:50:50 UTC
From: BASE
Topic: 8922 Message: 8960
Attachments: 3 described; binary payloads are missing from this source WARC

In my note, I said 0.03 Newtons per square centimeter. (I've been back in the lab with my students.)
Our students found the breaking force for small strips (approximately 2 cm wide and 15 cm relaxed length) of latex balloon earlier this fall to be between 5 and 12 Newtons.
Howard

--- On Thu, 11/18/10, Joe <nss@...> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
To: GPSL@yahoogroups.com
Cc: "DON FRASER" <wa9wws@...>, basedepauw@...
Date: Thursday, November 18, 2010, 1:00 PM

OF COURSE 0.03 NEWT PER WHAT?

Sig

The Original Rolling
Ball
Clock

Idle Tyme

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On 11/18/2010 11:53 AM, DON FRASER wrote:

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To: GPSL@yahoogroups.com

CC: basedepauw@yahoo.com

From: nss@...

Date: Thu, 18 Nov 2010 11:48:14 -0600

Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
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that the required force was bigger than 0.03 Newtons.

Howard

--- On Thu, 11/18/10, L. Paul Verhage <nearsys@...>
wrote:

From: L. Paul Verhage <nearsys@...>

Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high
altitude attempt on November 18, 2010 at 2:30 a.m.
PST.

To: GPSL@yahoogroups.com

Date: Thursday, November 18, 2010, 11:52 AM

So without enough extra pressure,
the helium inside the balloon can't cause
the latex to stretch any further?

Can we figure out a safe minimum lift for
the balloon?

On Thu,
Nov 18, 2010 at 10:44 AM, Jerry Gable <jerrygable@...>
wrote:

Joe,

Back when we were first speculating on
this flight we guessed 50% lift at 110K
feet and 0 lift at 130K feet. I think
we were off a little but I think this
shows the internal pressure does limit
the altitude.

Here is the thread http://groups.yahoo.com/group/GPSL/message/8443

Jerry

From: Joe
<nss@...>

To: GPSL@yahoogroups.com

Cc: Keith
Kaiser <wa0tjt@...>

Sent: Thu,
November 18, 2010 9:36:03 AM

Subject: Re:
[GPSL] Re: [Balloon_Sked] Re: CNSP
high altitude attempt on November
18, 2010 at 2:30 a.m. PST.

The question was NOT what altitude
did it get to..

The question WAS, what altitude did
the slowing and almost levelling off
happen at last time?

Joe WB9SBD

Near Space Sciences

The Original Rolling
Ball Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010 10:30 AM, Keith Kaiser
wrote:
I've already posted in
the records page the highest
altitude for the flight. Are you
the only one watching I

don't think so.

On Nov 18, 2010, at 10:28
AM, L. Paul Verhage wrote:

How about balloon
futures?
Balloon bellies?

Or near space
futures?

Paul

On
Thu, Nov 18, 2010 at
10:26 AM, Jerry Gable
<jerrygable@...>
wrote:

A new money
making idea,
balloon lotto.

From:
Mark Caviezel
<kmcaviezel@...>

To:
GregC <greg@...>;
Joe <nss@...>

Cc:
Balloon_Sked@yahoogroups.com; gpsl <GPSL@yahoogroups.com>

Sent:
Thu, November
18, 2010
9:21:06 AM

Subject:
[GPSL] Re:
[Balloon_Sked]
Re: CNSP high
altitude
attempt on
November 18,
2010 at 2:30
a.m. PST.

Joe:

I'm watching
it. Should
we have a
betting pool
to see if
anyone thinks
it can overfly
NV and make it
to Utah?

best

- Mark

--- On Thu,
11/18/10, Joe
<nss@...>
wrote:

From: Joe <nss@mwt.net>

Subject: Re:
[Balloon_Sked]
Re: CNSP high
altitude
attempt on
November 18,
2010 at 2:30
a.m. PST.

To: "GregC"
<greg@...>

Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>

Date:
Thursday,
November 18,
2010, 8:11 AM

Am I the
only one
watching this
flight?

Joe WB9SBD

The
Original
Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010
9:50 AM, Joe
wrote:
Hi
Gang,

OK, what
altitude did
the leveling
off happen
last time?
wasn't it
close to this
altitude last
time when it
slowed down?

Joe WB9SBD

The
Original
Rolling Ball
Clock

Idle Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010
8:51 AM, GregC
wrote:

This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!

-- Greg K7RKT

--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.californianearspaceproject.com/

-Ron K6RPT

Yahoo! Groups Links

(Yahoo! ID required)

Balloon_Sked-unsubscribe@yahoogroups.com

--

Onwards and Upwards,

Paul

--

Onwards and Upwards,

Paul

8961. RE: [GPSL] We Got Utah

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:03:13 UTC
From: DON FRASER
Topic: 8959 Message: 8961
Attachments: 1 described; binary payloads are missing from this source WARC

And if it stays up, it will make western Colorado in less than 3 hrs.

Don

To: GPSL@yahoogroups.com
From: nss@...
Date: Thu, 18 Nov 2010 12:49:51 -0600
Subject: [GPSL] We Got Utah

Well it's made it into Utah!

Joe WB9SBD

--

The Original Rolling Ball ClockIdle TymeIdle-Tyme.comhttp://www.idle-tyme.com

8962. Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:17:11 UTC
From: gregwilliams@knology.net
Topic: 8962 Message: 8962

http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html

Pupils at Landscove CofE Primary School dressed the spud with a white beard and red bobble hat before positioning him into a ‘shuttle’ made out of a two-litre plastic drink bottle.

The ‘spacechip’ – named Spudnik2 – was then tied to a helium weather balloon with a camera attached and launched from the local village car park in Devon.

They watched as it soared 17 miles up – reaching 90,000ft – before the balloon to burst and the shuttle floated back down to earth on a parachute and landed 140 miles away in Hampshire.

Pics and video at link

8963. Re: [GPSL] Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:22:05 UTC
From: L. Paul Verhage
Topic: 8962 Message: 8963

I've sent email to the story editor. I'm going to see if I can send them a BalloonSat Mini for their next flight. That way they can collect some data.

Paul

On Thu, Nov 18, 2010 at 1:17 PM, <gregwilliams@...> wrote:

>
> http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html
>
> Pupils at Landscove CofE Primary School dressed the spud with a white beard
> and red bobble hat before positioning him into a ‘shuttle’ made out of a
> two-litre plastic drink bottle.
>
> The ‘spacechip’ – named Spudnik2 – was then tied to a helium weather
> balloon with a camera attached and launched from the local village car park
> in Devon.
>
> They watched as it soared 17 miles up – reaching 90,000ft – before the
> balloon to burst and the shuttle floated back down to earth on a parachute
> and landed 140 miles away in Hampshire.
>
> Pics and video at link
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

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Onwards and Upwards,
Paul

8964. Re: [GPSL] We Got Utah

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:29:47 UTC
From: Joe
Topic: 8959 Message: 8964
Attachments: 2 described; binary payloads are missing from this source WARC

Ok, max sun has passed and it looks like it might be coming down, BUT
it's way too slow for a Burst, and yet way too fast from loss of
heating, i wonder what's happening to this guy now?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 1:03 PM, DON FRASER wrote:
>
>
> And if it stays up, it will make western Colorado in less than 3 hrs.
>
> Don
>
> ---
> To: GPSL@yahoogroups.com
> From: nss@...
> Date: Thu, 18 Nov 2010 12:49:51 -0600
> Subject: [GPSL] We Got Utah
>
> Well it's made it into Utah!
>
> Joe WB9SBD
> --
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>
>
>

8965. Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:30:14 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8965
Attachments: 1 described; binary payloads are missing from this source WARC

The KU flight last week used a 3000g balloon with 15 pounds of lift (10 pound payload). The balloon slowed down the last 8 minutes of flight. So even with lots of lift, it looks like the balloon experienced difficulty expanding near the end of its flight.

http://nearsys.com/arhab/flightdata/2010/h/index.htm

Paul

On Thu, Nov 18, 2010 at 1:23 PM, Barry <barry2@...m> wrote:

> All depends on how under inflated and close to the burst size the balloon
> is. We had one start to float at about 107K ft, but it only took about an
> hour for the UV to weaken it and cause it to burst (at least I'm guessing
> that's the reason it burst).
>
>
>
> Barry VE6SBS
> ------------------------------
>
> *From:* L. Paul Verhage [mailto:nearsys@gmail.com]
> *Sent:* November 18, 2010 12:10 PM
> *To:* barry2@...
> *Subject:* Re: [Balloon_Sked] Re: CNSP high altitude attempt on November
> 18, 2010 at 2:30 a.m. PST.
>
>
>
> My bet is all the way to Colorado. I think it will start dropping in a
> some three hours (as the sun begins to drop in the west), but it stay above
> the ground for a few hours after that.
>
>
>
> Paul
>
> On Thu, Nov 18, 2010 at 1:07 PM, Barry <bs@...> wrote:
>
>
>
> I'm watching as well. Mark - I was going to bet it would make it to Utah,
> but see it already has! Doubt it will make Colorado however, but who knows?
> But I'm surprised at the wind speed and have always found balloons simply

> wander around a fairly stationary point after rising above about 100K ft.
>
>
>
> Barry VE6SBS
> ------------------------------
>
> *From:* Balloon_Sked@yahoogroups.com [mailto:Balloon_Sked@yahoogroups.com]
> *On Behalf Of *Mark Caviezel
> *Sent:* November 18, 2010 9:21 AM
> *To:* GregC; Joe
> *Cc:* Balloon_Sked@yahoogroups.com; gpsl
> *Subject:* Re: [Balloon_Sked] Re: CNSP high altitude attempt on November
> 18, 2010 at 2:30 a.m. PST.
>
>
>
> Joe:
> I'm watching it. Should we have a betting pool to see if anyone thinks it
> can overfly NV and make it to Utah?
>
> best
>
> - Mark
>
>
> --- On *Thu, 11/18/10, Joe <nss@...>* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18,
> 2010 at 2:30 a.m. PST.
> To: "GregC" <greg@bigredbee.com>
> Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> Date: Thursday, November 18, 2010, 8:11 AM
>
> Am I the only one watching this flight?
>
> Joe WB9SBD
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/18/2010 9:50 AM, Joe wrote:
>
> Hi Gang,

>
> OK, what altitude did the leveling off happen last time? wasn't it close
> to this altitude last time when it slowed down?
>
> Joe WB9SBD
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/18/2010 8:51 AM, GregC wrote:
>
> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
further away than expected!!!
>
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>
> -- Greg K7RKT
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>
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> --- In Balloon_Sked@yahoogroups.com <http://mc/compose?to=Balloon_Sked@yahoogroups.com>,
"k6rpt" <Ron@...> <http://mc/compose?to=Ron@...> wrote:
>
> California Near Space Project is preparing to launch K6RPT-11, another high altitude
attempt on November 18, 2010 at 2:30 a.m. PST.
>
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>

> http://www.CaliforniaNearSpaceProject.com <http://www.californianearspaceproject.com/>
> -Ron K6RPT
> ---
> Yahoo! Groups Links
> http://groups.yahoo.com/group/Balloon_Sked/
> Individual Email | Traditional

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>
> http://groups.yahoo.com/group/Balloon_Sked/join
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> (Yahoo! ID required)
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>
> Balloon_Sked-digest@yahoogroups.com
<http://mc/compose?to=Balloon_Sked-digest@yahoogroups.com>
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> Balloon_Sked-fullfeatured@yahoogroups.com
<http://mc/compose?to=Balloon_Sked-fullfeatured@yahoogroups.com>
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> Balloon_Sked-unsubscribe@yahoogroups.com
<http://mc/compose?to=Balloon_Sked-unsubscribe@yahoogroups.com>
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> http://docs.yahoo.com/info/terms/

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> --
> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

8966. Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:32:43 UTC
From: L. Paul Verhage
Topic: 8922 Message: 8966

It's headed to Filmore. I've stayed at their KOA several years ago. As I recall, its not a bad place to rtecover.

Paul

On Thu, Nov 18, 2010 at 1:30 PM, Lynn W. Deffenbaugh (Mr) <ldeffenb@...> wrote:

> K6RPT-11 seems to have popped. Highest I saw was 115,505ft. At 86K now
> and falling fast.
>
> Lynn (D) - KJ4ERJ
>
> Barry wrote:
> >
> >
> > I’m watching as well. Mark - I was going to bet it would make it to
> > Utah, but see it already has! Doubt it will make Colorado however, but
> > who knows? But I’m surprised at the wind speed and have always found
> > balloons simply wander around a fairly stationary point after rising
> > above about 100K ft.
> >
> > Barry VE6SBS
> >
> > ---
> >
> > *From:* Balloon_Sked@yahoogroups.com
> > [mailto:Balloon_Sked@yahoogroups.com] *On Behalf Of *Mark Caviezel
> > *Sent:* November 18, 2010 9:21 AM
> > *To:* GregC; Joe
> > *Cc:* Balloon_Sked@yahoogroups.com; gpsl
> > *Subject:* Re: [Balloon_Sked] Re: CNSP high altitude attempt on
> > November 18, 2010 at 2:30 a.m. PST.
> >
> > Joe:
> > I'm watching it. Should we have a betting pool to see if anyone thinks
> > it can overfly NV and make it to Utah?
> >
> > best
> >
> > - Mark
> >
> >
> > --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:

> >
> >
> > From: Joe <nss@...>
> > Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November
> > 18, 2010 at 2:30 a.m. PST.
> > To: "GregC" <greg@bigredbee.com>
> > Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
> > Date: Thursday, November 18, 2010, 8:11 AM
> >
> > Am I the only one watching this flight?
> >
> > Joe WB9SBD
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> >
> > On 11/18/2010 9:50 AM, Joe wrote:
> >
> > Hi Gang,
> >
> > OK, what altitude did the leveling off happen last time? wasn't it
> > close to this altitude last time when it slowed down?
> >
> > Joe WB9SBD
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> >
> > On 11/18/2010 8:51 AM, GregC wrote:
> >
> > This one's still in the air and slooooowly climbing -- looks like it's
> going to be bit further away than expected!!!
> >
> >
> >
> > -- Greg K7RKT
> >
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> >
> > --- In Balloon_Sked@yahoogroups.com </mc/compose?to=

> Balloon_Sked@yahoogroups.com>, "k6rpt" <Ron@...> </mc/compose?to=Ron@...>
> wrote:
> >> California Near Space Project is preparing to launch K6RPT-11, another
> high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
> >>
> >>
> >>
> >> http://www.CaliforniaNearSpaceProject.com<http://www.californianearspaceproject.com/>
> >>
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> >>
> >> -Ron K6RPT
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> > Yahoo! Groups Links
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> > http://groups.yahoo.com/group/Balloon_Sked/
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> > Individual Email | Traditional
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> >
> > http://groups.yahoo.com/group/Balloon_Sked/join
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> > (Yahoo! ID required)
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> > Balloon_Sked-digest@yahoogroups.com </mc/compose?to=
> Balloon_Sked-digest@yahoogroups.com>
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> > Balloon_Sked-fullfeatured@yahoogroups.com </mc/compose?to=
> Balloon_Sked-fullfeatured@...m>
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> > Balloon_Sked-unsubscribe@yahoogroups.com </mc/compose?to=
> Balloon_Sked-unsubscribe@yahoogroups.com>
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> Yahoo! Groups Links
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Onwards and Upwards,
Paul

8967. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:40:08 UTC
From: Roger Hammond
Topic: 8922 Message: 8967

I'm a little disappointed, I was hoping for a Nebraska recovery with
headlines...
CNNSP recovers CNSP.

Rog KC0MWM

On Thu, Nov 18, 2010 at 1:32 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> It's headed to Filmore. I've stayed at their KOA several years ago. As I
> recall, its not a bad place to rtecover.
>
> Paul
>
> On Thu, Nov 18, 2010 at 1:30 PM, Lynn W. Deffenbaugh (Mr) <
> ldeffenb@...> wrote:
>
>> K6RPT-11 seems to have popped. Highest I saw was 115,505ft. At 86K now
>> and falling fast.
>>
>> Lynn (D) - KJ4ERJ
>>
>> Barry wrote:
>> >
>> >
>> > I'm watching as well. Mark - I was going to bet it would make it to
>> > Utah, but see it already has! Doubt it will make Colorado however, but
>> > who knows? But I'm surprised at the wind speed and have always found
>> > balloons simply wander around a fairly stationary point after rising
>> > above about 100K ft.
>> >
>> > Barry VE6SBS
>> >
>> > ---
>> >
>> > *From:* Balloon_Sked@yahoogroups.com
>> > [mailto:Balloon_Sked@yahoogroups.com] *On Behalf Of *Mark Caviezel
>> > *Sent:* November 18, 2010 9:21 AM
>> > *To:* GregC; Joe
>> > *Cc:* Balloon_Sked@yahoogroups.com; gpsl
>> > *Subject:* Re: [Balloon_Sked] Re: CNSP high altitude attempt on
>> > November 18, 2010 at 2:30 a.m. PST.
>> >

>> > Joe:
>> > I'm watching it. Should we have a betting pool to see if anyone thinks
>> > it can overfly NV and make it to Utah?
>> >
>> > best
>> >
>> > - Mark
>> >
>> >
>> > --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:
>> >
>> >
>> > From: Joe <nss@...>
>> > Subject: Re: [Balloon_Sked] Re: CNSP high altitude attempt on November
>> > 18, 2010 at 2:30 a.m. PST.
>> > To: "GregC" <greg@...>
>> > Cc: Balloon_Sked@yahoogroups.com, "gpsl" <GPSL@yahoogroups.com>
>> > Date: Thursday, November 18, 2010, 8:11 AM
>> >
>> > Am I the only one watching this flight?
>> >
>> > Joe WB9SBD
>> >
>> >
>> > The Original Rolling Ball Clock
>> > Idle Tyme
>> > Idle-Tyme.com
>> > http://www.idle-tyme.com
>> >
>> >
>> > On 11/18/2010 9:50 AM, Joe wrote:
>> >
>> > Hi Gang,
>> >
>> > OK, what altitude did the leveling off happen last time? wasn't it
>> > close to this altitude last time when it slowed down?
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>> > Joe WB9SBD
>> >
>> >
>> > The Original Rolling Ball Clock
>> > Idle Tyme
>> > Idle-Tyme.com
>> > http://www.idle-tyme.com
>> >
>> >
>> > On 11/18/2010 8:51 AM, GregC wrote:
>> >
>> > This one's still in the air and slooooowly climbing -- looks like it's
>> going to be bit further away than expected!!!

>> >
>> >
>> >
>> > -- Greg K7RKT
>> >
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>> >
>> > --- In Balloon_Sked@yahoogroups.com </mc/compose?to=
>> Balloon_Sked@yahoogroups.com>, "k6rpt" <Ron@...> </mc/compose?to=Ron@...>
>> wrote:
>> >> California Near Space Project is preparing to launch K6RPT-11, another
>> high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>> >>
>> >>
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>> >>
http://www.CaliforniaNearSpaceProject.com<http://www.californianearspaceproject.com/>
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>> >>
>> >> -Ron K6RPT
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>> > Yahoo! Groups Links
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>> > http://groups.yahoo.com/group/Balloon_Sked/
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>> > Individual Email | Traditional
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>> > http://groups.yahoo.com/group/Balloon_Sked/join
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>> > (Yahoo! ID required)
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>> > Balloon_Sked-digest@yahoogroups.com </mc/compose?to=

>> Balloon_Sked-digest@yahoogroups.com>
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>> > Balloon_Sked-fullfeatured@yahoogroups.com </mc/compose?to=
>> Balloon_Sked-fullfeatured@yahoogroups.com>
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>> > Balloon_Sked-unsubscribe@yahoogroups.com </mc/compose?to=
>> Balloon_Sked-unsubscribe@yahoogroups.com>
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>> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
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8968. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:42:17 UTC
From: gregwilliams@knology.net
Topic: 8922 Message: 8968

Somebody might want to get on the horn with some Utah hams pronto. I don't see many stations in Utah at all on APRS. It's actually being reported by stations in Colorado.

Looks to be landing near Hwy 257, just west of I-15. Elevation in that area is 5000' so the Colorado digis may keep it tracked until the last couple of thousand feet.

Greg, K4HSM

8969. RE: [GPSL] Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:51:34 UTC
From: Steve D
Topic: 8962 Message: 8969

Well I will email and see if I can get a story for them. Something like high altitude balloon enthusiasts worldwide were impressed etc. and are offering equipment for another launch. unless someone else wants to write something up.

These are keystage 2 children so aged 7 to 11. unless someone else wants to write something up.

The 90,000ft is incorrect according to the journalist who wrote the original piece they made 35km or around 115,000ft.

Comments are allowed on the original link I posted.

The school can be contacted on admin@...

That's very nice of you to offer them equipment Paul.

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 18 November 2010 19:22
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Spudnik a success

I've sent email to the story editor. I'm going to see if I can send them a BalloonSat Mini for their next flight. That way they can collect some data.

Paul

On Thu, Nov 18, 2010 at 1:17 PM, <gregwilliams@...> wrote:

http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html

Pupils at Landscove CofE Primary School dressed the spud with a white beard and red bobble hat before positioning him into a 'shuttle' made out of a two-litre plastic drink bottle.

The 'spacechip' - named Spudnik2 - was then tied to a helium weather balloon with a camera attached and launched from the local village car park in Devon.

They watched as it soared 17 miles up - reaching 90,000ft - before the balloon to burst and the shuttle floated back down to earth on a parachute

and landed 140 miles away in Hampshire.

Pics and video at link

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

8970. Re: [GPSL] Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 19:57:11 UTC
From: L. Paul Verhage
Topic: 8962 Message: 8970

Thanks for the email address. I just sent an email and will let everyone
know the response.

I'll send a temperature sensor kit along with the flight computer.

Now to find the cost of shipping to England.......

Paul

On Thu, Nov 18, 2010 at 1:51 PM, Steve D <sbd64000@...> wrote:

>
>
> Well I will email and see if I can get a story for them. Something like
> high altitude balloon enthusiasts worldwide were impressed etc. and are
> offering equipment for another launch. unless someone else wants to write
> something up.
>
> These are keystage 2 children so aged 7 to 11. unless someone else wants
> to write something up.
>
> The 90,000ft is incorrect according to the journalist who wrote the
> original piece they made 35km or around 115,000ft.
>
>
>
> Comments are allowed on the original link I posted.
>
> The school can be contacted on admin@...
>
>
>
> That’s very nice of you to offer them equipment Paul.
>
>
>
> Steve
>
> G6UIM
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 18 November 2010 19:22

> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Spudnik a success
>
>
>
>
>
> I've sent email to the story editor. I'm going to see if I can send them a
> BalloonSat Mini for their next flight. That way they can collect some data.
>
>
>
> Paul
>
> On Thu, Nov 18, 2010 at 1:17 PM, <gregwilliams@...> wrote:
>
>
> http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html
>
> Pupils at Landscove CofE Primary School dressed the spud with a white beard
> and red bobble hat before positioning him into a ‘shuttle’ made out of a
> two-litre plastic drink bottle.
>
> The ‘spacechip’ – named Spudnik2 – was then tied to a helium weather
> balloon with a camera attached and launched from the local village car park
> in Devon.
>
> They watched as it soared 17 miles up – reaching 90,000ft – before the
> balloon to burst and the shuttle floated back down to earth on a parachute
> and landed 140 miles away in Hampshire.
>
> Pics and video at link
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> Yahoo! Groups Links
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> --
> Onwards and Upwards,
> Paul
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>

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Onwards and Upwards,
Paul

8971. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 20:02:35 UTC
From: Mark Conner
Topic: 8922 Message: 8971

I'm thinking this will land not far from I-15 in the Meadow UT area. There is a digi on the ridgeline to the east of Meadow that should pick it up fine all the way to the ground. If it lands before it gets to the forested area east of I-15, recovery should be almost trivial.

73 de Mark N9XTN

On Thu, Nov 18, 2010 at 13:42, <gregwilliams@...> wrote:

> Somebody might want to get on the horn with some Utah hams pronto. I don't
> see many stations in Utah at all on APRS. It's actually being reported by
> stations in Colorado.
>
> Looks to be landing near Hwy 257, just west of I-15. Elevation in that area
> is 5000' so the Colorado digis may keep it tracked until the last couple of
> thousand feet.
>
> Greg, K4HSM
>
>

8972. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 20:06:40 UTC
From: Mark Conner
Topic: 8922 Message: 8972

Just now posted a note to the APRSSIG in the hopes someone in Utah will see
it.

73 de Mark N9XTN

On Thu, Nov 18, 2010 at 14:02, Mark Conner <mconner1@...> wrote:

> I'm thinking this will land not far from I-15 in the Meadow UT area. There
> is a digi on the ridgeline to the east of Meadow that should pick it up fine
> all the way to the ground. If it lands before it gets to the forested area
> east of I-15, recovery should be almost trivial.
>
> 73 de Mark N9XTN
>
>
> On Thu, Nov 18, 2010 at 13:42, <gregwilliams@...> wrote:
>
>> Somebody might want to get on the horn with some Utah hams pronto. I don't
>> see many stations in Utah at all on APRS. It's actually being reported by
>> stations in Colorado.
>>
>> Looks to be landing near Hwy 257, just west of I-15. Elevation in that
>> area is 5000' so the Colorado digis may keep it tracked until the last
>> couple of thousand feet.
>>
>> Greg, K4HSM
>>
>>
>

8973. Re: [GPSL] We Got Utah

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 20:10:23 UTC
From: Tim
Topic: 8959 Message: 8973
Attachments: 2 described; binary payloads are missing from this source WARC

Do you think the balloon just started to leak, or does it have a chute? It is
just drifting back to earth....

Tim
KJ6HSX

From: Joe <nss@...>
To: GPSL@yahoogroups.com
Cc: DON FRASER <wa9wws@...>
Sent: Thu, November 18, 2010 11:29:47 AM
Subject: Re: [GPSL] We Got Utah

Ok, max sun has passed and it looks like it might be coming down, BUT
it's way too slow for a Burst, and yet way too fast from loss of heating,
i wonder what's happening to this guy now?

Joe WB9SBD

Sig
The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 1:03 PM, DON FRASER wrote:
And if it stays up, it will make western Colorado in less than 3 hrs.
>
>Don
>
>---
To: GPSL@yahoogroups.com
>From: nss@...
>Date: Thu, 18 Nov 2010 12:49:51 -0600
>Subject: [GPSL] We Got Utah
>
>Well it's made it into Utah!
>
>Joe WB9SBD
>
>--
>
>The Original Rolling Ball Clock
>Idle Tyme
>Idle-Tyme.com

>http://www.idle-tyme.com
>

8974. RE: [GPSL] Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 20:16:01 UTC
From: Steve D
Topic: 8962 Message: 8974

Hi Paul,

I guess they will need a balloon. Lol.

If they are interested, if you want to ship to me I will see if I can get some news coverage of the hand over of equipment on your or anyone else that donates behalf.

I don't particularly need coverage for myself. Lol. Up to you on that.

Make sure you label it a donation else customs will charge the recipient.

My address is correct on QRZ

Steve Daniels

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 18 November 2010 19:57
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Spudnik a success

Thanks for the email address. I just sent an email and will let everyone know the response.

I'll send a temperature sensor kit along with the flight computer.

Now to find the cost of shipping to England.....

Paul

On Thu, Nov 18, 2010 at 1:51 PM, Steve D <sbd64000@...> wrote:

Well I will email and see if I can get a story for them. Something like high altitude balloon enthusiasts worldwide were impressed etc. and are offering equipment for another launch. unless someone else wants to write something up.

These are keystage 2 children so aged 7 to 11. unless someone else wants to write something up.

The 90,000ft is incorrect according to the journalist who wrote the original piece they made 35km or around 115,000ft.

Comments are allowed on the original link I posted.

The school can be contacted on admin@...

That's very nice of you to offer them equipment Paul.

Steve

G6UIM

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 18 November 2010 19:22
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Spudnik a success

I've sent email to the story editor. I'm going to see if I can send them a BalloonSat Mini for their next flight. That way they can collect some data.

Paul

On Thu, Nov 18, 2010 at 1:17 PM, <gregwilliams@...> wrote:

http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html

Pupils at Landscove CofE Primary School dressed the spud with a white beard and red bobble hat before positioning him into a 'shuttle' made out of a two-litre plastic drink bottle.

The 'spacechip' - named Spudnik2 - was then tied to a helium weather balloon with a camera attached and launched from the local village car park in Devon.

They watched as it soared 17 miles up - reaching 90,000ft - before the balloon to burst and the shuttle floated back down to earth on a parachute and landed 140 miles away in Hampshire.

Pics and video at link

Yahoo! Groups Links

--
Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

8975. Re: [GPSL] Spudnik a success

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-18 20:18:42 UTC
From: L. Paul Verhage
Topic: 8962 Message: 8975

Thanks for helping out. Good information about the donation, that will help.

Sure, I'll send it to you.

Hope to hear form them tomorrow. That time zone change is a killer!

Paul

On Thu, Nov 18, 2010 at 2:16 PM, Steve D <sbd64000@...> wrote:

>
>
> Hi Paul,
>
> I guess they will need a balloon. Lol.
>
> If they are interested, if you want to ship to me I will see if I can get
> some news coverage of the hand over of equipment on your or anyone else that
> donates behalf.
>
> I don’t particularly need coverage for myself. Lol. Up to you on that.
>
> Make sure you label it a donation else customs will charge the recipient.
>
>
>
> My address is correct on QRZ
>
>
>
> Steve Daniels
>
> G6UIM
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> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 18 November 2010 19:57
>

> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Spudnik a success
>
>
>
>
>
> Thanks for the email address. I just sent an email and will let everyone
> know the response.
>
>
>
> I'll send a temperature sensor kit along with the flight computer.
>
>
>
> Now to find the cost of shipping to England.......
>
>
>
> Paul
>
> On Thu, Nov 18, 2010 at 1:51 PM, Steve D <sbd64000@yahoo.com> wrote:
>
>
>
> Well I will email and see if I can get a story for them. Something like
> high altitude balloon enthusiasts worldwide were impressed etc. and are
> offering equipment for another launch. unless someone else wants to write
> something up.
>
> These are keystage 2 children so aged 7 to 11. unless someone else wants
> to write something up.
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> The 90,000ft is incorrect according to the journalist who wrote the
> original piece they made 35km or around 115,000ft.
>
>
>
> Comments are allowed on the original link I posted.
>
> The school can be contacted on admin@...n.sch.uk
>
>
>
> That’s very nice of you to offer them equipment Paul.
>
>
>
> Steve

>
> G6UIM
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* 18 November 2010 19:22
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Spudnik a success
>
>
>
>
>
> I've sent email to the story editor. I'm going to see if I can send them a
> BalloonSat Mini for their next flight. That way they can collect some data.
>
>
>
> Paul
>
> On Thu, Nov 18, 2010 at 1:17 PM, <gregwilliams@...> wrote:
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>
> http://swns.com/spudnik-amazing-pictures-from-potato-launched-into-space-181430.html
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> and red bobble hat before positioning him into a ‘shuttle’ made out of a
> two-litre plastic drink bottle.
>
> The ‘spacechip’ – named Spudnik2 – was then tied to a helium weather
> balloon with a camera attached and launched from the local village car park
> in Devon.
>
> They watched as it soared 17 miles up – reaching 90,000ft – before the
> balloon to burst and the shuttle floated back down to earth on a parachute
> and landed 140 miles away in Hampshire.
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> Pics and video at link
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> Yahoo! Groups Links
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> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
> Paul
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Onwards and Upwards,
Paul

8976. Re: [GPSL] Canon Camera As A Video Player

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 00:00:12 UTC
From: HarryM
Topic: 8953 Message: 8976

SigHi Joe,
I guess I missed the thread on this one. Can you direct me to the sites for the scripts or the names of them?

Thanks!
Harry KC5TRB
>I tried the small "Bill" and the Bikini video as a test,...

8977. Re: Canon Camera As A Video Player

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 00:26:23 UTC
From: Joe
Topic: 8953 Message: 8977

here ya go, it asks about someone trying it, but i guess I beat them.

Attached are the two Bill & bikini Files.

Hey dudes! the hackers say they have fixed this, anyone have some time to try it out? this is what they say to do to make any video play in these canon Cameras. Problem the way to do it is in Russian. Anyone?

All this stuff has been examined a long time ago and everything works.
Here is the link to description in russian, maybe google translate can help you with this.
http://chdk.clan.su/load/2-1-0-2
In any way there are a lots of pictures so it should be easy enough to understand.

In short: you will need to convert your video using VirtualDub with fallowing parameters - mjpeg codec (subsampling 4:2:2), 15 fps, resolutions 320x240/160x120/640x480.
Then save as AVI from VirtualDub and use this tool to create THM preview -
http://chdk.clan.su/load/0-0-0-2-20

PS: Before editing video in VirtualDub you should install MJPEG codec (http://download.accusoft.com/picvideo/PICVIDEO.EXE), you can find registration data in the archive below with test video.

Here is converted sample movie, try will it play or not.
Codec serial number included as a bonus
http://www.multiupload.com/BEPW6LTPXJ

PPS: This is PHOTO CAMERA, not a multimedia player

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

--- In GPSL@yahoogroups.com, "HarryM" <hhm_74115@...> wrote:
>
> SigHi Joe,
> I guess I missed the thread on this one. Can you direct me to the sites for the scripts or the names of them?
>
> Thanks!
> Harry KC5TRB
> >I tried the small "Bill" and the Bikini video as a test,...
>

8978. What Is This?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 00:29:17 UTC
From: Joe
Topic: 8978 Message: 8978

I have been getting this about 50% of the time when I have been posting to the group, as seen below. Whats going on?

Alert! The attached outbound message has been quarantined.

We're sorry, but our mail server did not deliver your message because it was caught by our outbound spam filter.

This message was not delivered to its intended recipient(s):

GPSL@yahoogroups.com

To release from quarantine to this recipient, go to

https://airstream.redcondor.net/console/digest/view.action?token=bnNzQG13dC5uZXQAAAEs_AD638r9ANEcsX9Vz_FOXGsmxIP_zB4E&dbid=f60185c2-4106-4c44-99c1-cb98589a16d2&smtpid=2010111900214 9799&recipient=%3CGPSL%23yahoogroups.com%40207.190.94.137%2F32%3E

Alert!
Your message has been QUARANTINED!

We're sorry, but our mail server did not deliver your message because it was caught by our outbound spam filter.

This message was not delivered to its intended recipient(s):

* GPSL@yahoogroups.com

To release this message from quarantine, click the corresponding recipient.

Original-Envelope-Id: <4CE5C317.4050205@...>
Reporting-MTA: dns; rco2.airstreamcomm.net
Received-From-MTA: gadget.mwt.net (207.190.94.137)
Arrival-Date: Fri, 19 Nov 2010 00:21:49 +0000

Final-Recipient: RFC822; <GPSL@yahoogroups.com>
Action: failed
Status: 5.7.1 (permanent failure)
X-REDCONDOR-FILTER: rules-spam
X-REDCONDOR-PROFILE: 207.190.94.137/32
X-REDCONDOR-CAUSE: SPAM - 1599956

Part 1.2
Subject:
Re: [GPSL] Canon Camera As A Video Player
From:
Joe <nss@mwt.net>
Date:

Thu, 18 Nov 2010 18:21:43 -0600
To:
GPSL@yahoogroups.com

here ya go, it asks about someone trying it, but i guess I beat them.

Attached are the two Bill & bikini Files.

Hey dudes! the hackers say they have fixed this, anyone have some time to try it out? this is what they say to do to make any video play in these canon Cameras. Problem the way to do it is in Russian. Anyone?

All this stuff has been examined a long time ago and everything works.
Here is the link to description in russian, maybe google translate can help you with this.
http://chdk.clan.su/load/2-1-0-2
In any way there are a lots of pictures so it should be easy enough to understand.

In short: you will need to convert your video using VirtualDub with fallowing parameters - mjpeg codec (subsampling 4:2:2), 15 fps, resolutions 320x240/160x120/640x480.
Then save as AVI from VirtualDub and use this tool to create THM preview -
http://chdk.clan.su/load/0-0-0-2-20

PS: Before editing video in VirtualDub you should install MJPEG codec (http://download.accusoft.com/picvideo/PICVIDEO.EXE), you can find registration data in the archive below with test video.

Here is converted sample movie, try will it play or not.
Codec serial number included as a bonus
http://www.multiupload.com/BEPW6LTPXJ

PPS: This is PHOTO CAMERA, not a multimedia player

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/18/2010 6:00 PM, HarryM wrote:
>
>
> Hi Joe,
> I guess I missed the thread on this one. Can you direct me to the sites for the scripts or the names of them?
>
> Thanks!
> Harry KC5TRB
>
>
> >I tried the small "Bill" and the Bikini video as a test,...
>

>
>

8979. Re: [GPSL] Re: Canon Camera As A Video Player

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 00:55:51 UTC
From: HarryM
Topic: 8953 Message: 8979

Thanks Joe, I didn’t miss the thread, looks like you changed the subject.
My SD1000 takes AVI, but my SX200 takes MOV movies.
Don’t understand why Canon decided on the MOV format.

73 Harry

> here ya go, it asks about someone trying it, but i guess I beat them....

8980. Re: [GPSL] CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 02:52:03 UTC
From: Mike Manes
Topic: 8917 Message: 8980

... no ZZZzzzz's :=(

On 11/17/2010 21:33, Rick von Glahn wrote:
> Cool (literally), no IR heating, no UV degrading latex. This an excellent idea. Good luck.
>
>
> 73 - Rick -- N0KKZ
>
>
> On Nov 17, 2010, at 17:21, "k6rpt"<Ron@...> wrote:
>
>>
>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>
>> http://www.CaliforniaNearSpaceProject.com
>>
>> -Ron K6RPT
>>
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8981. Re: [GPSL] Re: CNSP high altitude attempt - UPPER LEVEL WINDS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 04:19:00 UTC
From: Mike Manes
Topic: 8922 Message: 8981

Well, yeah, sorta. But it's still moving with the Earth relative to the sun line. The circumference of the the Earth is Pi x 8000 mi, or about 25,000 miles, so the equator is moving about 1000 mph relative to the sun line. At 40d N lat, apply cos(40d) and get about 800 mph.
73 de Mike W5VSI

On 11/18/2010 11:37, Michael Willett wrote:
>
> 96 MPH at 115K feet! That balloon is cooking right along!
>
> I guess now you start to think that actually, the balloon is going
> slower than the earth is spinning!
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

8982. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 14:47:00 UTC
From: Joe
Topic: 8922 Message: 8982
Attachments: 3 described; binary payloads are missing from this source WARC

On 11/18/2010 12:50 PM, BASE wrote:
> In my note, I said 0.03 Newtons per square centimeter. (I've been back
> in the lab with my students.)
>
> Our students found the breaking force for small strips (approximately
> 2 cm wide and 15 cm relaxed length) of latex balloon earlier this fall
> to be between 5 and 12 Newtons.
>
Thats an awful large window. The strong is more than twice as strong as
the weakest test? We used a tensile strength machine, and ran a dozen
test samples, and the high was 17.2 Mpa and the Low was 16.2 Mpa the
average came to be 16.7 Mpa Tensile Strength.

Joe WB9SBD
Near Space Sciences
>
> Howard
>
> --- On *Thu, 11/18/10, Joe /<nss@...>/* wrote:
>
>
> From: Joe <nss@...>
> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
> attempt on November 18, 2010 at 2:30 a.m. PST.
> To: GPSL@yahoogroups.com
> Cc: "DON FRASER" <wa9wws@...>, basedepauw@...
> Date: Thursday, November 18, 2010, 1:00 PM
>
> OF COURSE 0.03 NEWT PER WHAT?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/18/2010 11:53 AM, DON FRASER wrote:
>> Joe; You'll need to know if its newtons per sq cm or sq m, and
>> then use a converter like:
>> http://www.translatorscafe.com/cafe/units-converter/pressure
>>
>> --
>> To: GPSL@yahoogroups.com </mc/compose?to=GPSL@yahoogroups.com>
>> CC: basedepauw@... </mc/compose?to=basedepauw@...>

>> From: nss@... </mc/compose?to=nss@...>
>> Date: Thu, 18 Nov 2010 11:48:14 -0600
>> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude
>> attempt on November 18, 2010 at 2:30 a.m. PST.
>>
>> 0.03 newt to Psi please?
>>
>> The Original Rolling Ball Clock
>> Idle Tyme
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>> http://www.idle-tyme.com <http://www.idle-tyme.com/>
>>
>> On 11/18/2010 11:45 AM, BASE wrote:
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>> I think that the various pressure increase measurements that
>> Michael, Jerry, the Minnesota students, and others have
>> obtained, it is safe to say that the latex response to
>> stretching is not linear. It seems reasonable that the small
>> amount of helium in the balloon cannot supply the required
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>> The initial helium gas fill was about 120 cubic feet and the
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>> I'll try to revisit the breaking force data that my students
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>>
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>> </mc/compose?to=nearsys@...>/* wrote:
>>
>>
>> From: L. Paul Verhage <nearsys@...>
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>> Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high
>> altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>> To: GPSL@yahoogroups.com
>> </mc/compose?to=GPSL@yahoogroups.com>
>> Date: Thursday, November 18, 2010, 11:52 AM
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>> So without enough extra pressure, the helium inside the
>> balloon can't cause the latex to stretch any further?
>> Can we figure out a safe minimum lift for the balloon?
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>> On Thu, Nov 18, 2010 at 10:44 AM, Jerry Gable
>> <jerrygable@...

>> <http:///mc/compose?to=jerrygable@...>> wrote:
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>> Here is the thread
>> http://groups.yahoo.com/group/GPSL/message/8443
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>> Jerry
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>>
>> ---
>> *From:* Joe <nss@...
>> <http:///mc/compose?to=nss@...>>
>> *To:* GPSL@yahoogroups.com
>> <http:///mc/compose?to=GPSL@yahoogroups.com>
>> *Cc:* Keith Kaiser <wa0tjt@...
>> <http:///mc/compose?to=wa0tjt@...>>
>> *Sent:* Thu, November 18, 2010 9:36:03 AM
>> *Subject:* Re: [GPSL] Re: [Balloon_Sked] Re: CNSP
>> high altitude attempt on November 18, 2010 at 2:30
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>> The question was NOT what altitude did it get to..
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>> A new money making idea, balloon lotto.
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>> *From:* Mark Caviezel
>> <kmcaviezel@...
>> <http:///mc/compose?to=kmcaviezel@...>>
>> *To:* GregC <greg@...
>> <http:///mc/compose?to=greg@...>>;
>> Joe <nss@...
>> <http:///mc/compose?to=nss@...>>
>>
>> *Cc:* Balloon_Sked@yahoogroups.com
>> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>;
>> gpsl <GPSL@yahoogroups.com
>> <http:///mc/compose?to=GPSL@yahoogroups.com>>
>> *Sent:* Thu, November 18, 2010 9:21:06 AM
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>> Joe:
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>> can overfly NV and make it to Utah?
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>> - Mark
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>> Subject: Re: [Balloon_Sked] Re: CNSP
>> high altitude attempt on November 18,

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>> To: "GregC" <greg@...
>> <http:///mc/compose?to=greg@...>>
>> Cc: Balloon_Sked@yahoogroups.com
>> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>,
>> "gpsl" <GPSL@yahoogroups.com
>> <http:///mc/compose?to=GPSL@yahoogroups.com>>
>> Date: Thursday, November 18, 2010,
>> 8:11 AM
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>> Am I the only one watching this flight?
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>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit
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>> -- Greg K7RKT
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>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
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>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>> (Yahoo! ID required)
>>
>>
>> Balloon_Sked-unsubscribe@yahoogroups.com
>>
>>
>>
>>
>>
>>
>>
>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>>
>>
>>
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>> Paul
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>>
>

8983. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 15:45:17 UTC
From: BASE
Topic: 8922 Message: 8983

Joe,
It was a very simple first run of a test with a generic force transducer. The balloon strip was tied to the hook on the end of the transducer and a student pulled down on the strip until it broke. Some of the scatter is due to the simple set-up.
I would not get excited about the number, but just the order of magnitude. The force at break was around 10 Newtons. Of course, you are quoting tensile strength value. Our answers would have a larger scatter, but come in between 10 and 24 Mpa.
If we took greater care, I imagine that we would get more consistent values, but we certainly agree with your numbers.
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--- On Fri, 11/19/10, Joe <nss@mwt.net> wrote:

From: Joe <nss@...>
Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
To: GPSL@yahoogroups.com
Cc: "BASE" <basedepauw@...>
Date: Friday, November 19, 2010, 9:47 AM

On 11/18/2010 12:50 PM, BASE wrote:In my note, I said 0.03 Newtons per square centimeter. (I've been back in the lab with my students.)
Our students found the breaking force for small strips (approximately 2 cm wide and 15 cm relaxed length) of latex balloon earlier this fall to be between 5 and 12 Newtons.Thats an awful large window. The strong is more than twice as strong as the weakest test? We used a tensile strength machine, and ran a dozen test samples, and the high was 17.2 Mpa and the Low was 16.2 Mpa the average came to be 16.7 Mpa Tensile Strength.

Joe WB9SBD
Near Space Sciences

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Near Space Sciences

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PST.

To: GPSL@yahoogroups.com

Cc: "DON FRASER" <wa9wws@...>,
basedepauw@...

Date: Thursday, November 18, 2010, 1:00 PM

OF COURSE 0.03 NEWT PER WHAT?

Sig

The
Original Rolling Ball Clock

Idle
Tyme

Idle-Tyme.com

http://www.idle-tyme.com

On 11/18/2010 11:53 AM, DON FRASER wrote:

Joe; You'll need to know if its newtons per sq cm or sq m,
and then use a converter like:
http://www.translatorscafe.com/cafe/units-converter/pressure

To: GPSL@yahoogroups.com

CC: basedepauw@...

From: nss@...

Date: Thu, 18 Nov 2010 11:48:14 -0600

Subject: Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

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I'll try to revisit the breaking force data that my students looked at earlier in the fall, but I think that the required force was bigger than 0.03 Newtons.

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--- On Thu, 11/18/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>

Subject: Re: [GPSL] Re:
[Balloon_Sked] Re: CNSP high
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2010 at 2:30 a.m. PST.

To: GPSL@yahoogroups.com

Date: Thursday, November 18, 2010,
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Here is the thread
http://groups.yahoo.com/group/GPSL/message/8443

Jerry

From:
Joe <nss@mwt.net>

To:
GPSL@yahoogroups.com

Cc:
Keith Kaiser <wa0tjt@...>

Sent:
Thu, November 18,
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Subject:
Re: [GPSL] Re:
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Near Space Sciences

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Paul Verhage
wrote:

How about
balloon

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Balloon
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Or near
space futures?

Paul

On

Thu, Nov 18,
2010 at 10:26
AM, Jerry
Gable <jerrygable@...>
wrote:

A new
money making
idea, balloon
lotto.

From:
Mark Caviezel
<kmcaviezel@yahoo.com>

To:
GregC <greg@bigredbee.com>;

Joe <nss@...>

Cc:
Balloon_Sked@yahoogroups.com;
gpsl <GPSL@yahoogroups.com>

Sent:
Thu, November
18, 2010
9:21:06 AM

Subject:
[GPSL] Re:
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best

- Mark

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Subject: Re:
[Balloon_Sked]
Re: CNSP high
altitude
attempt on
November 18,
2010 at 2:30
a.m. PST.

To: "GregC"
<greg@bigredbee.com>

Cc: Balloon_Sked@yahoogroups.com,
"gpsl" <GPSL@yahoogroups.com>

Date:
Thursday,
November 18,
2010, 8:11 AM

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The
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--- In Balloon_Sked@yahoogroups.com, "k6rpt" <Ron@...> wrote:

California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

http://www.californianearspaceproject.com/

-Ron K6RPT

Yahoo! Groups Links

(Yahoo! ID required)

Balloon_Sked-unsubscribe@yahoogroups.com

--

Onwards and
Upwards,

Paul

--

Onwards and Upwards,

Paul

8984. Re: [GPSL] Re: [Balloon_Sked] Re: CNSP high altitude attempt on November 18, 2010 at 2:30 a.m. PST.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 16:02:00 UTC
From: Joe
Topic: 8922 Message: 8984

I understand,

Plus those numbers are probably a tad low too, because of any edge defects in the cut sample will cause it to tear prematurely true?

Our test machine uses a special Die and press machine to cut the test samples out of the raw material, and of course any microscopic nicks or same would cause a similar defect in the cut and Like a glass cutting cause it to fail at this defect.

The machine uses self gripping clamps where it automatically grips the ends of the test sample and automatically adjusts for even loading etc.

It was at a plastic company I used to work for that had the machine. it cost them $380,000 bucks!

Joe

The Original Rolling Ball Clock
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On 11/19/2010 9:45 AM, BASE wrote:
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>> Cc: "DON FRASER" <wa9wws@...>
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>> Date: Thursday, November 18, 2010, 1:00 PM
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>>> <kmcaviezel@...
>>> <http:///mc/compose?to=kmcaviezel@...>>
>>> *To:* GregC <greg@...
>>> <http:///mc/compose?to=greg@...>>;
>>> Joe <nss@...
>>> <http:///mc/compose?to=nss@...>>
>>>
>>> *Cc:* Balloon_Sked@yahoogroups.com
>>> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>;
>>> gpsl <GPSL@yahoogroups.com
>>> <http:///mc/compose?to=GPSL@yahoogroups.com>>
>>> *Sent:* Thu, November 18, 2010
>>> 9:21:06 AM
>>> *Subject:* [GPSL] Re: [Balloon_Sked]
>>> Re: CNSP high altitude attempt on
>>> November 18, 2010 at 2:30 a.m. PST.
>>>
>>> Joe:
>>> I'm watching it. Should we have a
>>> betting pool to see if anyone thinks
>>> it can overfly NV and make it to Utah?
>>>
>>> best
>>>
>>> - Mark
>>>
>>>
>>> --- On *Thu, 11/18/10, Joe
>>> /<nss@...
>>> <http:///mc/compose?to=nss@...>>/*
>>> wrote:
>>>
>>>
>>> From: Joe <nss@...
>>> <http:///mc/compose?to=nss@...>>
>>> Subject: Re: [Balloon_Sked] Re:
>>> CNSP high altitude attempt on
>>> November 18, 2010 at 2:30 a.m. PST.
>>> To: "GregC" <greg@...
>>> <http:///mc/compose?to=greg@...>>
>>> Cc: Balloon_Sked@yahoogroups.com
>>> <http:///mc/compose?to=Balloon_Sked@yahoogroups.com>,
>>> "gpsl" <GPSL@yahoogroups.com
>>> <http:///mc/compose?to=GPSL@yahoogroups.com>>
>>> Date: Thursday, November 18,
>>> 2010, 8:11 AM
>>>
>>> Am I the only one watching this

>>> flight?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> <http://idle-tyme.com/>
>>> http://www.idle-tyme.com
>>> <http://www.idle-tyme.com/>
>>>
>>> On 11/18/2010 9:50 AM, Joe wrote:
>>>
>>> Hi Gang,
>>>
>>> OK, what altitude did the
>>> leveling off happen last
>>> time? wasn't it close to
>>> this altitude last time when
>>> it slowed down?
>>>
>>> Joe WB9SBD
>>>
>>> The Original Rolling Ball Clock
>>> Idle Tyme
>>> Idle-Tyme.com
>>> <http://idle-tyme.com/>
>>> http://www.idle-tyme.com
>>> <http://www.idle-tyme.com/>
>>>
>>> On 11/18/2010 8:51 AM, GregC
>>> wrote:
>>>
>>> This one's still in the air and slooooowly climbing -- looks like it's going to be bit further away than expected!!!
>>>
>>> -- Greg K7RKT
>>>
>>>
>>> --- InBalloon_Sked@yahoogroups.com, "k6rpt"<Ron@...> wrote:
>>>
>>>
>>>
>>> California Near Space Project is preparing to launch K6RPT-11, another high altitude attempt on November 18, 2010 at 2:30 a.m. PST.
>>>
>>> http://www.californianearspaceproject.com/
>>>
>>>
>>> -Ron K6RPT

>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>> (Yahoo! ID required)
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>>
>>>
>>>
>>> --
>>> Onwards and Upwards,
>>> Paul
>>>
>>>
>>
>

8985. Landscove School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 16:07:53 UTC
From: L. Paul Verhage
Topic: 8985 Message: 8985

I've contacted Landscove and will send them a BalloonSat Mini and Temperature Array for their next launch.

I've mentioned before that I plan to start a BalloonSats without Borders program that will send a BalloonSat around the world to hams with near space experience. I have a BalloonSat design in mind and will start it after I complete my comps next semester. I imagine running a program like this would look good on my vita.

Steve came up with a follow-on idea of sending a curriculum to other countries. It would include balloons, parachutes, tracking equipment, helium, and a BalloonSat students would build. It's a much more expensive program than B w/o B, but could have a great impact on education.

We're wondering how you could pay for something like this. Any suggestions for donors etc, would be appreciated.

--
Onwards and Upwards,
Paul

8986. RE: [GPSL] Landscove School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 16:46:17 UTC
From: Steve D
Topic: 8985 Message: 8986

I think it would be great to have a kit that schools could assemble even if they have to put some money towards it. Primary schools in this country don't have a lot of money. But the ability to fly a balloon with a science payload would be a great educational experience.

I do have one potential sponsor, I will get in touch with them and see what they are prepared to do.

I think a webpage explaining the idea so that sponsors and schools can get an idea of whats happening would be a good start.

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 19 November 2010 16:08
To: gpsl@yahoogroups.com
Subject: [GPSL] Landscove School

I've contacted Landscove and will send them a BalloonSat Mini and Temperature Array for their next launch.

I've mentioned before that I plan to start a BalloonSats without Borders program that will send a BalloonSat around the world to hams with near space experience. I have a BalloonSat design in mind and will start it after I complete my comps next semester. I imagine running a program like this would look good on my vita.

Steve came up with a follow-on idea of sending a curriculum to other countries. It would include balloons, parachutes, tracking equipment, helium, and a BalloonSat students would build. It's a much more expensive program than B w/o B, but could have a great impact on education.

We're wondering how you could pay for something like this. Any suggestions for donors etc, would be appreciated.

--
Onwards and Upwards,
Paul

8987. Re: [GPSL] Landscove School

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-19 18:03:56 UTC
From: Jerry Gable
Topic: 8985 Message: 8987

If you are looking for balloons for this, someone has a bunch of 600G balloons (more than 10) on ebay for $20 each. I bought a couple and they are in good shape, still beige at least.

http://cgi.ebay.com/Giant-Kaymont-600gram-Meteorological-Weather-Balloon-/170567685458?pt=LH_DefaultDomain_0&hash=item27b6a05552

From: Steve D <sbd64000@...>
To: GPSL@yahoogroups.com
Sent: Fri, November 19, 2010 9:46:17 AM
Subject: RE: [GPSL] Landscove School

I think it would be great to have a kit that schools could assemble even if they have to put some money towards it. Primary schools in this country don't have a lot of money. But the ability to fly a balloon with a science payload would be a great educational experience.

I do have one potential sponsor, I will get in touch with them and see what they are prepared to do.
I think a webpage explaining the idea so that sponsors and schools can get an idea of whats happening would be a good start.

Steve
G6UIM

From:GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 19 November 2010 16:08
To: gpsl@yahoogroups.com
Subject: [GPSL] Landscove School

I've contacted Landscove and will send them a BalloonSat Mini and Temperature Array for their next launch.

I've mentioned before that I plan to start a BalloonSats without Borders program that will send a BalloonSat around the world to hams with near space experience. I have a BalloonSat design in mind and will start it after I complete my comps next semester. I imagine running a program like this would look good on my vita.

Steve came up with a follow-on idea of sending a curriculum to other countries. It would include balloons, parachutes, tracking equipment, helium, and a BalloonSat students would build. It's a much more expensive program than B w/o B, but could have a great impact on education.

We're wondering how you could pay for something like this. Any suggestions for donors etc, would be appreciated.

--
Onwards and Upwards,
Paul

8988. ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 16:34:04 UTC
From: Steve D
Topic: 8988 Message: 8988

Anyone else watching 126,587ft as I type

Steve

G6UIM

8989. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:01:41 UTC
From: Joe
Topic: 8988 Message: 8989
Attachments: 1 described; binary payloads are missing from this source WARC

Wow, where did this flight come from?

What r they using etc.?

This broke records already 130006 right now at 1700 Z

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:
>
>
> Anyone else watching 126,587ft as I type
>
> Steve
>
> G6UIM
>
>
>
>

8990. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:01:58 UTC
From: Wayne Helms
Topic: 8988 Message: 8990

i am now thanks wonder if it will splash down in the alantic?

wayne
kc5wxc

On Sat, Nov 20, 2010 at 10:34 AM, Steve D <sbd64000@...> wrote:

>
>
> Anyone else watching 126,587ft as I type
>
>
>
> Steve
>
> G6UIM
>
>
>

8991. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:05:12 UTC
From: Joe
Topic: 8988 Message: 8991
Attachments: 1 described; binary payloads are missing from this source WARC

Anyone have any details of the flight train?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 11:01 AM, Wayne Helms wrote:
>
>
> i am now thanks wonder if it will splash down in the alantic?
>
> wayne
> kc5wxc
>
> On Sat, Nov 20, 2010 at 10:34 AM, Steve D <sbd64000@...
> <mailto:sbd64000@...>> wrote:
>
>
>
>
> Anyone else watching 126,587ft as I type
>
> Steve
>
> G6UIM
>
>
>
>
>
>
>
>

8992. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:13:49 UTC
From: Joe
Topic: 8988 Message: 8992
Attachments: 2 described; binary payloads are missing from this source WARC

Looks like we got Burst!

130903 feet!! way to go!!!

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 11:05 AM, Joe wrote:
> Anyone have any details of the flight train?
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/20/2010 11:01 AM, Wayne Helms wrote:
>> i am now thanks wonder if it will splash down in the alantic?
>>
>> wayne
>> kc5wxc
>>
>> On Sat, Nov 20, 2010 at 10:34 AM, Steve D <sbd64000@...
>> <mailto:sbd64000@...>> wrote:
>>
>>
>>
>> Anyone else watching 126,587ft as I type
>>
>> Steve
>>
>> G6UIM
>>
>>
>>
>>

8993. RE: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:15:31 UTC
From: Steve D
Topic: 8988 Message: 8993
Attachments: 1 described; binary payloads are missing from this source WARC

Launch in Perth Ottawa

Looks to be coming down now I get 130,902 as the peak

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: 20 November 2010 17:02
To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] ve3rex-11

Wow, where did this flight come from?

What r they using etc.?

This broke records already 130006 right now at 1700 Z

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:

Anyone else watching 126,587ft as I type

Steve

G6UIM

8994. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:47:30 UTC
From: Joe
Topic: 8988 Message: 8994
Attachments: 1 described; binary payloads are missing from this source WARC

I wionder if it went for a swim?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:
>
>
> Anyone else watching 126,587ft as I type
>
> Steve
>
> G6UIM
>
>
>
>

8995. RE: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 17:50:38 UTC
From: Steve D
Topic: 8988 Message: 8995
Attachments: 1 described; binary payloads are missing from this source WARC

Does seem to have stopped transmitting very near the river.

Steve

G6UIM

From: Joe [mailto:nss@...]
Sent: 20 November 2010 17:48
To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] ve3rex-11

I wionder if it went for a swim?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:

Anyone else watching 126,587ft as I type

Steve

G6UIM

8996. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 18:15:12 UTC
From: Wayne Helms
Topic: 8988 Message: 8996
Attachments: 1 described; binary payloads are missing from this source WARC

Not sure as to when the river will freeze over there so maybe it hit thin ice but looking at the area maybe it was recovered before it had tyme to sink .

wayne
kc5wxc

On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:

>
>
> Does seem to have stopped transmitting very near the river.
>
>
>
> Steve
>
> G6UIM
>
>
> ------------------------------
>
> *From:* Joe [mailto:nss@...]
> *Sent:* 20 November 2010 17:48
>
> *To:* GPSL@yahoogroups.com
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
>
>
>
>
> I wionder if it went for a swim?
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/20/2010 10:34 AM, Steve D wrote:
>
>
> Anyone else watching 126,587ft as I type
>

>
>
> Steve
>
> G6UIM
>
>
>
>
>
>

8997. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:10:35 UTC
From: Wayne Helms
Topic: 8988 Message: 8997
Attachments: 1 described; binary payloads are missing from this source WARC

I have been on the phone with a ham in the area he is hearing a signal on 144.390 so it must be out of the water it's last transmission location is less than two miles from his qth

wayne
kc5wxc

On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...> wrote:

> Not sure as to when the river will freeze over there so maybe it hit thin
> ice but looking at the area maybe it was recovered before it had tyme to
> sink .
>
> wayne
> kc5wxc
>
>
> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:
>
>>
>>
>> Does seem to have stopped transmitting very near the river.
>>
>>
>>
>> Steve
>>
>> G6UIM
>>
>>
>> ------------------------------
>>
>> *From:* Joe [mailto:nss@...]
>> *Sent:* 20 November 2010 17:48
>>
>> *To:* GPSL@yahoogroups.com
>> *Cc:* Steve D
>> *Subject:* Re: [GPSL] ve3rex-11
>>
>>
>>
>> I wionder if it went for a swim?
>>
>>
>> The Original Rolling Ball Clock

>> Idle Tyme
>> Idle-Tyme.com
>> http://www.idle-tyme.com
>>
>>
>> On 11/20/2010 10:34 AM, Steve D wrote:
>>
>>
>> Anyone else watching 126,587ft as I type
>>
>>
>>
>> Steve
>>
>> G6UIM
>>
>>
>>
>>
>>
>>
>
>

8998. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:12:31 UTC
From: Joe
Topic: 8988 Message: 8998
Attachments: 2 described; binary payloads are missing from this source WARC

That's cool.

I'd like to know what they flew for a flight train.

Payload. amount of lift, the balloon etc.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 1:10 PM, Wayne Helms wrote:
>
>
> I have been on the phone with a ham in the area he is hearing a signal
> on 144.390 so it must be out of the water it's last transmission
> location is less than two miles from his qth
>
>
> wayne
> kc5wxc
>
>
> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
> <mailto:kc5wxc@...>> wrote:
>
> Not sure as to when the river will freeze over there so maybe it
> hit thin ice but looking at the area maybe it was recovered
> before it had tyme to sink .
>
> wayne
> kc5wxc
>
>
> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...
> <mailto:sbd64000@...>> wrote:
>
>
>
>
> Does seem to have stopped transmitting very near the river.
>
> Steve

>
> G6UIM
>
> ---
>
> *From:*Joe [mailto:nss@... <mailto:nss@...>]
> *Sent:* 20 November 2010 17:48
>
>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
>
> I wionder if it went for a swim?
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/20/2010 10:34 AM, Steve D wrote:
>
>
> Anyone else watching 126,587ft as I type
>
> Steve
>
> G6UIM
>
>
>
>
>
>
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>
>
>
>

8999. RE: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:13:47 UTC
From: Steve D
Topic: 8988 Message: 8999
Attachments: 1 described; binary payloads are missing from this source WARC

I hope he goes out and attempts to retrieve the payload. Lets hope it's only lost GPS lock and can be DF.

Fingers crossed

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne Helms
Sent: 20 November 2010 19:11
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

I have been on the phone with a ham in the area he is hearing a signal on 144.390 so it must be out of the water it's last transmission location is less than two miles from his qth

wayne

kc5wxc

On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...> wrote:

Not sure as to when the river will freeze over there so maybe it hit thin ice but looking at the area maybe it was recovered before it had tyme to sink .

wayne

kc5wxc

On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:

Does seem to have stopped transmitting very near the river.

Steve

G6UIM

From: Joe [mailto:nss@...]
Sent: 20 November 2010 17:48

To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] ve3rex-11

I wionder if it went for a swim?

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:

Anyone else watching 126,587ft as I type

Steve

G6UIM

9000. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:18:36 UTC
From: Joe
Topic: 8988 Message: 9000
Attachments: 2 described; binary payloads are missing from this source WARC

DFing on 144.39 is horrid. unless youre using a doppler system.

First the transmission is soo short it's tough to get a peak on it.
Plus with all the dozens of other signals all running it's rard to know
which one is the right one.

Thats where the ultra LOUD alarms come in handy. like the ones we use if
your withinn like a mile you can hear it.

Joe

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 1:13 PM, Steve D wrote:
>
>
> I hope he goes out and attempts to retrieve the payload. Lets hope
> it's only lost GPS lock and can be DF.
>
> Fingers crossed
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> Of *Wayne Helms
> *Sent:* 20 November 2010 19:11
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
>
> I have been on the phone with a ham in the area he is hearing a signal
> on 144.390 so it must be out of the water it's last transmission
> location is less than two miles from his qth
>
> wayne
>
> kc5wxc
>
> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...

> <mailto:kc5wxc@...>> wrote:
>
> Not sure as to when the river will freeze over there so maybe it hit
> thin ice but looking at the area maybe it was recovered before it had
> tyme to sink .
>
> wayne
>
> kc5wxc
>
> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...
> <mailto:sbd64000@...>> wrote:
>
> Does seem to have stopped transmitting very near the river.
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*Joe [mailto:nss@... <mailto:nss@...>]
> *Sent:* 20 November 2010 17:48
>
>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
>
> I wionder if it went for a swim?
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/20/2010 10:34 AM, Steve D wrote:
>
> Anyone else watching 126,587ft as I type
>
> Steve
>
> G6UIM
>
>
>
>
>

9001. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:27:41 UTC
From: Wayne Helms
Topic: 8988 Message: 9001
Attachments: 2 described; binary payloads are missing from this source WARC

I searched a few ago on the aprs.fi site for zip code 04239 and the only thing running on that site any where close to that zip is the balloon. There are only 8 hams in that zip code so not many around to be doing much.when it's found the ham I spoke too will shoot me an e-mail i also gave him what info i had on the balloon which is not much. But I have sparked a interest in a older ham who has not been away from HF in a long tyme....

wayne
kc5wxc

On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...> wrote:

> DFing on 144.39 is horrid. unless youre using a doppler system.
>
> First the transmission is soo short it's tough to get a peak on it. Plus
> with all the dozens of other signals all running it's rard to know which one
> is the right one.
>
> Thats where the ultra LOUD alarms come in handy. like the ones we use if
> your withinn like a mile you can hear it.
>
> Joe
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/20/2010 1:13 PM, Steve D wrote:
>
> I hope he goes out and attempts to retrieve the payload. Lets hope it’s
> only lost GPS lock and can be DF.
>
> Fingers crossed
>
>
>
> Steve
>
> G6UIM
>
>
> ------------------------------
>

> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com<GPSL@yahoogroups.com>]
> *On Behalf Of *Wayne Helms
> *Sent:* 20 November 2010 19:11
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
>
>
>
>
>
> I have been on the phone with a ham in the area he is hearing a signal on
> 144.390 so it must be out of the water it's last transmission location is
> less than two miles from his qth
>
>
>
>
>
> wayne
>
> kc5wxc
>
>
>
> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@gmail.com> wrote:
>
> Not sure as to when the river will freeze over there so maybe it hit thin
> ice but looking at the area maybe it was recovered before it had tyme to
> sink .
>
>
>
> wayne
>
> kc5wxc
>
>
>
> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:
>
>
>
> Does seem to have stopped transmitting very near the river.
>
>
>
> Steve
>
> G6UIM
>

>
> ------------------------------
>
> *From:* Joe [mailto:nss@...]
> *Sent:* 20 November 2010 17:48
>
>
> *To:* GPSL@yahoogroups.com
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
>
>
>
> I wionder if it went for a swim?
>
>
> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
>
> On 11/20/2010 10:34 AM, Steve D wrote:
>
>
>
> Anyone else watching 126,587ft as I type
>
>
>
> Steve
>
> G6UIM
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9002. RE: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:34:17 UTC
From: Steve D
Topic: 8988 Message: 9002
Attachments: 1 described; binary payloads are missing from this source WARC

LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew on way there. Local hams assisting with recovery.

From va3qv web blog

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne Helms
Sent: 20 November 2010 19:28
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

I searched a few ago on the aprs.fi site for zip code 04239 and the only thing running on that site any where close to that zip is the balloon. There are only 8 hams in that zip code so not many around to be doing much.when it's found the ham I spoke too will shoot me an e-mail i also gave him what info i had on the balloon which is not much. But I have sparked a interest in a older ham who has not been away from HF in a long tyme....

wayne

kc5wxc

On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...> wrote:

DFing on 144.39 is horrid. unless youre using a doppler system.

First the transmission is soo short it's tough to get a peak on it. Plus with all the dozens of other signals all running it's rard to know which one is the right one.

Thats where the ultra LOUD alarms come in handy. like the ones we use if your withinn like a mile you can hear it.

Joe

The Original Rolling Ball Clock
Idle Tyme
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<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 1:13 PM, Steve D wrote:

I hope he goes out and attempts to retrieve the payload. Lets hope it's only lost GPS lock and can be DF.

Fingers crossed

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne Helms
Sent: 20 November 2010 19:11
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

I have been on the phone with a ham in the area he is hearing a signal on 144.390 so it must be out of the water it's last transmission location is less than two miles from his qth

wayne

kc5wxc

On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...> wrote:

Not sure as to when the river will freeze over there so maybe it hit thin ice but looking at the area maybe it was recovered before it had tyme to sink .

wayne

kc5wxc

On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:

Does seem to have stopped transmitting very near the river.

Steve

G6UIM

From: Joe [mailto:nss@...]
Sent: 20 November 2010 17:48

To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] ve3rex-11

I wionder if it went for a swim?

The Original Rolling Ball Clock
Idle Tyme

Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:

Anyone else watching 126,587ft as I type

Steve

G6UIM

9003. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 19:52:20 UTC
From: Wayne Helms
Topic: 8988 Message: 9003
Attachments: 1 described; binary payloads are missing from this source WARC

So anyone know what LASA is?

On Sat, Nov 20, 2010 at 1:34 PM, Steve D <sbd64000@...> wrote:

>
>
> LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew on
> way there. Local hams assisting with recovery.
>
> From va3qv web blog
>
>
>
> Steve
>
> G6UIM
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Wayne
> Helms
> *Sent:* 20 November 2010 19:28
>
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
>
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> I searched a few ago on the aprs.fi site for zip code 04239 and the only
> thing running on that site any where close to that zip is the balloon.
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> him what info i had on the balloon which is not much. But I have sparked a
> interest in a older ham who has not been away from HF in a long tyme....
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> kc5wxc
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> On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...> wrote:
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> DFing on 144.39 is horrid. unless youre using a doppler system.
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> First the transmission is soo short it's tough to get a peak on it. Plus
> with all the dozens of other signals all running it's rard to know which one
> is the right one.
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> Thats where the ultra LOUD alarms come in handy. like the ones we use if
> your withinn like a mile you can hear it.
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> On 11/20/2010 1:13 PM, Steve D wrote:
>
> I hope he goes out and attempts to retrieve the payload. Lets hope it’s
> only lost GPS lock and can be DF.
>
> Fingers crossed
>
>
>
> Steve
>
> G6UIM
>
>
> ------------------------------
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com<GPSL@yahoogroups.com>]
> *On Behalf Of *Wayne Helms
> *Sent:* 20 November 2010 19:11
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
>
>
>
>

>
> I have been on the phone with a ham in the area he is hearing a signal on
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> Steve
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> G6UIM
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> ------------------------------
>
> *From:* Joe [mailto:nss@...]
> *Sent:* 20 November 2010 17:48
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>
> *To:* GPSL@yahoogroups.com
> *Cc:* Steve D

> *Subject:* Re: [GPSL] ve3rex-11
>
>
>
> I wionder if it went for a swim?
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> On 11/20/2010 10:34 AM, Steve D wrote:
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> Anyone else watching 126,587ft as I type
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> Steve
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9004. RE: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 20:01:31 UTC
From: Steve D
Topic: 8988 Message: 9004
Attachments: 1 described; binary payloads are missing from this source WARC

Lanark Space Agency

http://lanarkspace.wordpress.com/

http://www.szijarto.ca/index.php?option=com_content
<http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=
96> &task=view&id=67&Itemid=96

Steve

G6UIM

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne
Helms
Sent: 20 November 2010 19:52
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

So anyone know what LASA is?

On Sat, Nov 20, 2010 at 1:34 PM, Steve D <sbd64000@...> wrote:

LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew on way
there. Local hams assisting with recovery.

From va3qv web blog

Steve

G6UIM

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne
Helms
Sent: 20 November 2010 19:28

To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

I searched a few ago on the aprs.fi site for zip code 04239 and the only
thing running on that site any where close to that zip is the balloon.
There are only 8 hams in that zip code so not many around to be doing
much.when it's found the ham I spoke too will shoot me an e-mail i also gave
him what info i had on the balloon which is not much. But I have sparked a
interest in a older ham who has not been away from HF in a long tyme....

wayne

kc5wxc

On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...> wrote:

DFing on 144.39 is horrid. unless youre using a doppler system.

First the transmission is soo short it's tough to get a peak on it. Plus with all the dozens of other signals all running it's rard to know which one is the right one.

Thats where the ultra LOUD alarms come in handy. like the ones we use if your withinn like a mile you can hear it.

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<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 1:13 PM, Steve D wrote:

I hope he goes out and attempts to retrieve the payload. Lets hope it's only lost GPS lock and can be DF.

Fingers crossed

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Wayne Helms
Sent: 20 November 2010 19:11
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ve3rex-11

I have been on the phone with a ham in the area he is hearing a signal on 144.390 so it must be out of the water it's last transmission location is less than two miles from his qth

wayne

kc5wxc

On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...> wrote:

Not sure as to when the river will freeze over there so maybe it hit thin ice but looking at the area maybe it was recovered before it had tyme to sink .

wayne

kc5wxc

On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...> wrote:

Does seem to have stopped transmitting very near the river.

Steve

G6UIM

From: Joe [mailto:nss@...]
Sent: 20 November 2010 17:48

To: GPSL@yahoogroups.com
Cc: Steve D
Subject: Re: [GPSL] ve3rex-11

I wionder if it went for a swim?

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Idle-Tyme.com
<http://www.idle-tyme.com> http://www.idle-tyme.com

On 11/20/2010 10:34 AM, Steve D wrote:

Anyone else watching 126,587ft as I type

Steve

G6UIM

9005. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 22:36:15 UTC
From: Joe
Topic: 8988 Message: 9005

Too bad they do say any details of what they fly.

Joe WB9SBD
Near Space Sciences

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 2:01 PM, Steve D wrote:
>
>
> Lanark Space Agency
>
> http://lanarkspace.wordpress.com/
>
> http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=96
> <http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=96>
>
> Steve
>
> G6UIM
>
> ---
>
> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
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> *Sent:* 20 November 2010 19:52
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
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> So anyone know what LASA is?
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>
> LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew
> on way there. Local hams assisting with recovery.
>
> From va3qv web blog
>
> Steve
>
> G6UIM
>

> ---
>
> *From:*GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On Behalf
> Of *Wayne Helms
> *Sent:* 20 November 2010 19:28
>
>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Subject:* Re: [GPSL] ve3rex-11
>
> I searched a few ago on the aprs.fi <http://aprs.fi> site for zip code
> 04239 and the only thing running on that site any where close to that
> zip is the balloon. There are only 8 hams in that zip code so not
> many around to be doing much.when it's found the ham I spoke too will
> shoot me an e-mail i also gave him what info i had on the balloon
> which is not much. But I have sparked a interest in a older ham who
> has not been away from HF in a long tyme....
>
> wayne
>
> kc5wxc
>
> On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
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> DFing on 144.39 is horrid. unless youre using a doppler system.
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> First the transmission is soo short it's tough to get a peak on it.
> Plus with all the dozens of other signals all running it's rard to
> know which one is the right one.
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> Thats where the ultra LOUD alarms come in handy. like the ones we use
> if your withinn like a mile you can hear it.
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> The Original Rolling Ball Clock
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> On 11/20/2010 1:13 PM, Steve D wrote:
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> I hope he goes out and attempts to retrieve the payload. Lets hope
> it's only lost GPS lock and can be DF.
>
> Fingers crossed
>

> Steve
>
> G6UIM
>
> ---
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> *From:*GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com] *On Behalf Of *Wayne Helms
> *Sent:* 20 November 2010 19:11
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Subject:* Re: [GPSL] ve3rex-11
>
> I have been on the phone with a ham in the area he is hearing a signal
> on 144.390 so it must be out of the water it's last transmission
> location is less than two miles from his qth
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> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
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> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...
> <mailto:sbd64000@...>> wrote:
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> Does seem to have stopped transmitting very near the river.
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> Steve
>
> G6UIM
>
> ---
>
> *From:*Joe [mailto:nss@... <mailto:nss@...>]
> *Sent:* 20 November 2010 17:48
>
>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
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> I wionder if it went for a swim?
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> On 11/20/2010 10:34 AM, Steve D wrote:
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> Anyone else watching 126,587ft as I type
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> G6UIM
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>
>

9006. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 23:02:48 UTC
From: Wayne Helms
Topic: 8988 Message: 9006
Attachments: 2 described; binary payloads are missing from this source WARC

I just made a phone call to the ham that lives like 3 miles south of there he went out looking for it it is still sounding on 144.390 but it's not in the cornfield under where the last known signal seen heard on aprs.fi he seams to think it may be on the island or on the south side of the river in the lumber mill ......

I see va3zks-9 is closing in on it going the long way around

http://aprs.fi/?addr=jay%20maine&mt=roadmap&z=11&timerange=10800

<http://aprs.fi/?addr=jay%20maine&mt=roadmap&z=11&timerange=10800>wayne kc5wxc

On Sat, Nov 20, 2010 at 4:36 PM, Joe <nss@...> wrote:

> Too bad they do say any details of what they fly.
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
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> http://www.idle-tyme.com
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> Steve
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> G6UIM
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com<GPSL@yahoogroups.com>]
> *On Behalf Of *Wayne Helms

> *Sent:* 20 November 2010 19:52
> *To:* GPSL@yahoogroups.com
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> From va3qv web blog
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> Steve
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>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *Wayne
> Helms
> *Sent:* 20 November 2010 19:28
>
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> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com<GPSL@yahoogroups.com>]
> *On Behalf Of *Wayne Helms
> *Sent:* 20 November 2010 19:11
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] ve3rex-11
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> Steve
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> ------------------------------
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> *From:* Joe [mailto:nss@...]
> *Sent:* 20 November 2010 17:48
>

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> *To:* GPSL@yahoogroups.com
> *Cc:* Steve D
> *Subject:* Re: [GPSL] ve3rex-11
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9007. Re: [GPSL] ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 23:08:11 UTC
From: Mike Manes
Topic: 8988 Message: 9007

An independent DF beacon is even better - redundant and DFable.
BTW, sri I missed watching that one - was busy handling traffic
for the Colo statewide SET.
73 de Mike W5VSI

On 11/20/2010 12:18, Joe wrote:
> DFing on 144.39 is horrid. unless youre using a doppler system.
>
> First the transmission is soo short it's tough to get a peak on it. Plus with
> all the dozens of other signals all running it's rard to know which one is the
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>> I hope he goes out and attempts to retrieve the payload. Lets hope it’s only
>> lost GPS lock and can be DF.
>>
>> Fingers crossed
>>
>> Steve
>>
>> G6UIM
>>
>> ---
>>
>> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
>> *Wayne Helms
>> *Sent:* 20 November 2010 19:11
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] ve3rex-11
>>
>> I have been on the phone with a ham in the area he is hearing a signal on
>> 144.390 so it must be out of the water it's last transmission location is
>> less than two miles from his qth
>>

>> wayne
>>
>> kc5wxc
>>
>> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
>> <mailto:kc5wxc@...>> wrote:
>>
>> Not sure as to when the river will freeze over there so maybe it hit thin
>> ice but looking at the area maybe it was recovered before it had tyme to sink .
>>
>> wayne
>>
>> kc5wxc
>>
>> On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@yahoo.com
>> <mailto:sbd64000@...>> wrote:
>>
>> Does seem to have stopped transmitting very near the river.
>>
>> Steve
>>
>> G6UIM
>>
>> --
>>
>> *From:*Joe [mailto:nss@... <mailto:nss@...>]
>> *Sent:* 20 November 2010 17:48
>>
>>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Cc:* Steve D
>> *Subject:* Re: [GPSL] ve3rex-11
>>
>> I wionder if it went for a swim?
>>
>>
>> The Original Rolling Ball Clock
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>> Idle-Tyme.com
>> http://www.idle-tyme.com
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>>
>> On 11/20/2010 10:34 AM, Steve D wrote:
>>
>> Anyone else watching 126,587ft as I type
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>> Steve
>>
>> G6UIM
>>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9008. Re: ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 23:10:36 UTC
From: k6rpt
Topic: 8988 Message: 9008

Joe, I agree, I have tried to get flight information from high altitude record holders with no luck. Oh well we've learned how to build pretty good floaters.

-Ron K6RPT

--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
> Too bad they do say any details of what they fly.
>
> Joe WB9SBD
> Near Space Sciences
>
> The Original Rolling Ball Clock
> Idle Tyme
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> http://www.idle-tyme.com
>
> On 11/20/2010 2:01 PM, Steve D wrote:
> >
> >
> > Lanark Space Agency
> >
> > http://lanarkspace.wordpress.com/
> >
> > http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=96
> > <http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=96>
> >
> > Steve
> >
> > G6UIM
> >
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> > *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
> > Of *Wayne Helms
> > *Sent:* 20 November 2010 19:52
> > *To:* GPSL@yahoogroups.com
> > *Subject:* Re: [GPSL] ve3rex-11
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> > So anyone know what LASA is?
> >
> > On Sat, Nov 20, 2010 at 1:34 PM, Steve D <sbd64000@...
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> >
> > LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew

> > on way there. Local hams assisting with recovery.
> >
> > From va3qv web blog
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> > Steve
> >
> > G6UIM
> >
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> > *From:*GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On Behalf
> > Of *Wayne Helms
> > *Sent:* 20 November 2010 19:28
> >
> >
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I searched a few ago on the aprs.fi <http://aprs.fi> site for zip code
> > 04239 and the only thing running on that site any where close to that
> > zip is the balloon. There are only 8 hams in that zip code so not
> > many around to be doing much.when it's found the ham I spoke too will
> > shoot me an e-mail i also gave him what info i had on the balloon
> > which is not much. But I have sparked a interest in a older ham who
> > has not been away from HF in a long tyme....
> >
> > wayne
> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...
> > <mailto:nss@...>> wrote:
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> > DFing on 144.39 is horrid. unless youre using a doppler system.
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> > First the transmission is soo short it's tough to get a peak on it.
> > Plus with all the dozens of other signals all running it's rard to
> > know which one is the right one.
> >
> > Thats where the ultra LOUD alarms come in handy. like the ones we use
> > if your withinn like a mile you can hear it.
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> > ---
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> > *From:*Joe [mailto:nss@... <mailto:nss@...>]
> > *Sent:* 20 November 2010 17:48
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> >
> > *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > *Cc:* Steve D
> > *Subject:* Re: [GPSL] ve3rex-11
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> > I wionder if it went for a swim?
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> > The Original Rolling Ball Clock
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> > On 11/20/2010 10:34 AM, Steve D wrote:
> >
> > Anyone else watching 126,587ft as I type
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> > Steve
> >
> > G6UIM
> >
> >
> >
> >
>

9009. Re: ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-20 23:45:55 UTC
From: sbd64000
Topic: 8988 Message: 9009

I flew a morse beacon as backup on the flight I did, just in case

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> An independent DF beacon is even better - redundant and DFable.
> BTW, sri I missed watching that one - was busy handling traffic
> for the Colo statewide SET.
> 73 de Mike W5VSI
>
> On 11/20/2010 12:18, Joe wrote:
> > DFing on 144.39 is horrid. unless youre using a doppler system.
> >
> > First the transmission is soo short it's tough to get a peak on it. Plus with
> > all the dozens of other signals all running it's rard to know which one is the
> > right one.
> >
> > Thats where the ultra LOUD alarms come in handy. like the ones we use if your
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> >> *From:*GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> >> *Wayne Helms
> >> *Sent:* 20 November 2010 19:11
> >> *To:* GPSL@yahoogroups.com
> >> *Subject:* Re: [GPSL] ve3rex-11
> >>

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> >> 144.390 so it must be out of the water it's last transmission location is
> >> less than two miles from his qth
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> >> wayne
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> >> On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
> >> <mailto:kc5wxc@...>> wrote:
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> >> Not sure as to when the river will freeze over there so maybe it hit thin
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> >> I wionder if it went for a swim?
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> >> On 11/20/2010 10:34 AM, Steve D wrote:
> >>
> >> Anyone else watching 126,587ft as I type
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> >> Steve
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

9010. Re: [GPSL] Re: ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 00:05:25 UTC
From: Joe
Topic: 8988 Message: 9010
Attachments: 1 described; binary payloads are missing from this source WARC

he he he yup!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/20/2010 5:10 PM, k6rpt wrote:
> Joe, I agree, I have tried to get flight information from high altitude record holders with no luck. Oh well we've learned how to build pretty good floaters.
>
> -Ron K6RPT
>
> --- In GPSL@yahoogroups.com, Joe<nss@...> wrote:
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>> Joe WB9SBD
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>>> *Subject:* Re: [GPSL] ve3rex-11
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>>> I searched a few ago on the aprs.fi<http://aprs.fi> site for zip code
>>> 04239 and the only thing running on that site any where close to that
>>> zip is the balloon. There are only 8 hams in that zip code so not
>>> many around to be doing much.when it's found the ham I spoke too will
>>> shoot me an e-mail i also gave him what info i had on the balloon
>>> which is not much. But I have sparked a interest in a older ham who
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>>> First the transmission is soo short it's tough to get a peak on it.
>>> Plus with all the dozens of other signals all running it's rard to
>>> know which one is the right one.
>>>
>>> Thats where the ultra LOUD alarms come in handy. like the ones we use
>>> if your withinn like a mile you can hear it.
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>>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

9011. RDF Beacon for HAB Use

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 01:56:23 UTC
From: Pete Lilja
Topic: 9011 Message: 9011

In the thread with the 130,000' flight of today (great job, BTW) there was some talk of a redundant RDF beacon.

We've used the Big Red Bee <http://bigredbee.com/BeeLine.htm> and it's saved us on a couple of flights. These things are small, lighweight, self-contained, frequency agile and they just work. Oh, and they're inexpensive. They utilize the 70cm band so a small handheld Yagi makes it easy to bang around cornfields and thick brush - not to mention much easier to get in and out of the backset of the car. RDF with a ArrowAntenna offset attenuator <http://arrowantennas.com/main/4ofha.html> and you'll dial right in on the Beeline RDF beacon. Oh, and Arrow makes some nice handheld Yagis, too (I have a 5 element 70cm Yagi but the 3 element is much smaller!).

I simply drill a 1/4" hole in the lid of an empty pill bottle and pass the Beeline's SMA connector through and screw on the 7" whip antenna. That pill bottle gets taped to the suspension line for a HAB flight. 17mW of power goes a long way and the LiPo battery lasts a long time and seems to take the cold well enough.

Just about a year ago we lost a HAB's antenna during PBC. We drove around for hours looking in the wrong places. Eventually we heard the RDF beacon after dark and and found the payload after a relatively short RDF session.

The BigRedBee Beeline RDF <http://bigredbee.com/BeeLine.htm> beacon is a terrific back-up. I have no affiliation - just a satisfied user.

Pete
KC0GPB

9012. White Star Balloon live stream of their benefit concert online now

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 02:47:02 UTC
From: wb8elk@aol.com
Topic: 9012 Message: 9012

For those wanting some good entertainment on a Saturday night....the White Star Balloon group has come up with a great way to bring in some funding for their upcoming trans-Atlantic flights....they are holding a benefit concert in their LVL Hackerspace building in Louisville. You will see their 40-foot tall balloon inflated in the camera view.

http://www.ustream.tv/channel/highball-1

or go to www.ustream.tv and search for White Star Balloon.

- Bill WB8ELK

9013. lost HAB

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 17:25:19 UTC
From: Keith Kaiser
Topic: 9013 Message: 9013

Next time David you might want to post your flight with the ARHAB groups by submitting the form on http://arhab.org that way the entire community is aware of your flight. As you can see I've forwarded your note to the three primary balloon groups in hope of helping you locate your balloon.

Good Luck!

On Nov 21, 2010, at 12:24 AM, David Jones wrote:

> Greetings,
>
> My name is David Jones (KF5HUV-11) from Dallas, Texas. On 11/19/2010 a partner and I launched a HAB from Dallas and it landed in South West Arkansas (33.98672 -94.04364 Coordinates sent by spot messenger after touchdown)
>
> The flight went to an altitude of over 100,000 ft. Needless to say, it caught a 65mph NE Jet-stream and the balloon traveled much farther than planned. We took the 5 hour drive to the location, attempted recovery but, we lost too much daylight to proceed. If any of you, know anyone in that area, that could help recover it; we would be very grateful. We are offering a $200.00 reward. More details can be found here.
>
> Graciously,
>
> David Jones
> KF5HUV
> 972-832-0996

9014. RE: [GPSL] Re: ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 17:38:48 UTC
From: Steve D
Topic: 8988 Message: 9014

On the grounds that VE3REX-11 transmitted onto APRS recently, looks like they got it back

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of k6rpt
Sent: 20 November 2010 23:11
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: ve3rex-11

Joe, I agree, I have tried to get flight information from high altitude record holders with no luck. Oh well we've learned how to build pretty good floaters.

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> > http://www.szijarto.ca/index.php?option=com_content <http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=96> &task=view&id=67&Itemid=96
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> >

> > Steve
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> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
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> > know which one is the right one.
> >
> > Thats where the ultra LOUD alarms come in handy. like the ones we use
> > if your withinn like a mile you can hear it.
> >
> > Joe
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> > On 11/20/2010 1:13 PM, Steve D wrote:
> >
> > I hope he goes out and attempts to retrieve the payload. Lets hope
> > it's only lost GPS lock and can be DF.
> >
> > Fingers crossed
> >
> > Steve
> >
> > G6UIM
> >
> > --
> >
> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On
Behalf Of *Wayne Helms
> > *Sent:* 20 November 2010 19:11
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I have been on the phone with a ham in the area he is hearing a signal
> > on 144.390 so it must be out of the water it's last transmission
> > location is less than two miles from his qth
> >
> > wayne

> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
> > <mailto:kc5wxc@...>> wrote:
> >
> > Not sure as to when the river will freeze over there so maybe it hit
> > thin ice but looking at the area maybe it was recovered before it had
> > tyme to sink .
> >
> > wayne
> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...
> > <mailto:sbd64000@...>> wrote:
> >
> > Does seem to have stopped transmitting very near the river.
> >
> > Steve
> >
> > G6UIM
> >
> > --
> >
> > *From:*Joe [mailto:nss@... <mailto:nss@...>]
> > *Sent:* 20 November 2010 17:48
> >
> >
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > *Cc:* Steve D
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I wionder if it went for a swim?
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> >
> > On 11/20/2010 10:34 AM, Steve D wrote:
> >
> > Anyone else watching 126,587ft as I type
> >
> > Steve
> >
> > G6UIM

> >
> >
> >
> >
>

9015. Flight in January?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 19:00:44 UTC
From: L. Paul Verhage
Topic: 9015 Message: 9015

I have a 600 gram balloon and would be interested in using for my first H2 flight in January.

Would this be something KC and the surrounding area would be interested in?

--
Onwards and Upwards,
Paul

9016. RE: [GPSL] Re: ve3rex-11

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-21 21:27:52 UTC
From: Steve D
Topic: 8988 Message: 9016

Pay load found hanging in the full November moon just south of river in Jay Maine at n44 30.70 w70 14.74. 30ft up tree. Celebratory libations preceded a stay at a motel in Wilton. Thankfully the local hardware store was open at 8am on a Sunday morning for supplies and we are having breakfast before heading back to attempt recovery again.

From their webpages

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Steve D
Sent: 21 November 2010 17:39
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Re: ve3rex-11

On the grounds that VE3REX-11 transmitted onto APRS recently, looks like they got it back

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of k6rpt
Sent: 20 November 2010 23:11
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: ve3rex-11

Joe, I agree, I have tried to get flight information from high altitude record holders with no luck. Oh well we've learned how to build pretty good floaters.

-Ron K6RPT

--- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> , Joe <nss@...> wrote:
>
> Too bad they do say any details of what they fly.
>
> Joe WB9SBD
> Near Space Sciences
>

> The Original Rolling Ball Clock
> Idle Tyme
> Idle-Tyme.com
> http://www.idle-tyme.com
>
> On 11/20/2010 2:01 PM, Steve D wrote:
> >
> >
> > Lanark Space Agency
> >
> > http://lanarkspace.wordpress.com/
> >
> > http://www.szijarto.ca/index.php?option=com_content
<http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=
96> &task=view&id=67&Itemid=96
> > <http://www.szijarto.ca/index.php?option=com_content
<http://www.szijarto.ca/index.php?option=com_content&task=view&id=67&Itemid=
96> &task=view&id=67&Itemid=96>
> >
> > Steve
> >
> > G6UIM
> >
> > --
> >
> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
[mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On Behalf
> > Of *Wayne Helms
> > *Sent:* 20 November 2010 19:52
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > So anyone know what LASA is?
> >
> > On Sat, Nov 20, 2010 at 1:34 PM, Steve D <sbd64000@...
> > <mailto:sbd64000@...>> wrote:
> >
> > LASA Update - LASA 8 has landed close to Jay Maine. 1 LASA chase crew
> > on way there. Local hams assisting with recovery.
> >
> > From va3qv web blog
> >
> > Steve
> >
> > G6UIM
> >
> > --
> >
> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >

> > [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >] *On Behalf
> > Of *Wayne Helms
> > *Sent:* 20 November 2010 19:28
> >
> >
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I searched a few ago on the aprs.fi <http://aprs.fi> site for zip code
> > 04239 and the only thing running on that site any where close to that
> > zip is the balloon. There are only 8 hams in that zip code so not
> > many around to be doing much.when it's found the ham I spoke too will
> > shoot me an e-mail i also gave him what info i had on the balloon
> > which is not much. But I have sparked a interest in a older ham who
> > has not been away from HF in a long tyme....
> >
> > wayne
> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 1:18 PM, Joe <nss@...
> > <mailto:nss@...>> wrote:
> >
> > DFing on 144.39 is horrid. unless youre using a doppler system.
> >
> > First the transmission is soo short it's tough to get a peak on it.
> > Plus with all the dozens of other signals all running it's rard to
> > know which one is the right one.
> >
> > Thats where the ultra LOUD alarms come in handy. like the ones we use
> > if your withinn like a mile you can hear it.
> >
> > Joe
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> > On 11/20/2010 1:13 PM, Steve D wrote:
> >
> > I hope he goes out and attempts to retrieve the payload. Lets hope
> > it's only lost GPS lock and can be DF.
> >
> > Fingers crossed
> >
> > Steve

> >
> > G6UIM
> >
> > ----------
> >
> > *From:*GPSL@yahoogroups.com <mailto:%2AGPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On
Behalf Of *Wayne Helms
> > *Sent:* 20 November 2010 19:11
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I have been on the phone with a ham in the area he is hearing a signal
> > on 144.390 so it must be out of the water it's last transmission
> > location is less than two miles from his qth
> >
> > wayne
> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 12:15 PM, Wayne Helms <kc5wxc@...
> > <mailto:kc5wxc@...>> wrote:
> >
> > Not sure as to when the river will freeze over there so maybe it hit
> > thin ice but looking at the area maybe it was recovered before it had
> > tyme to sink .
> >
> > wayne
> >
> > kc5wxc
> >
> > On Sat, Nov 20, 2010 at 11:50 AM, Steve D <sbd64000@...
> > <mailto:sbd64000@...>> wrote:
> >
> > Does seem to have stopped transmitting very near the river.
> >
> > Steve
> >
> > G6UIM
> >
> > ----------
> >
> > *From:*Joe [mailto:nss@... <mailto:nss@...>]
> > *Sent:* 20 November 2010 17:48
> >
> >
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
<mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com> >

> > *Cc:* Steve D
> > *Subject:* Re: [GPSL] ve3rex-11
> >
> > I wionder if it went for a swim?
> >
> >
> > The Original Rolling Ball Clock
> > Idle Tyme
> > Idle-Tyme.com
> > http://www.idle-tyme.com
> >
> >
> > On 11/20/2010 10:34 AM, Steve D wrote:
> >
> > Anyone else watching 126,587ft as I type
> >
> > Steve
> >
> > G6UIM
> >
> >
> >
> >
>

9017. Re: [GPSL] Re: ve3rex-11 - APRS settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-22 16:33:08 UTC
From: Michael Willett
Topic: 8988 Message: 9017

I looked at some of the APRS numbers to see what ascent rate was used
and such, and noticed the APRS appears to have been set to smart
beaconing and WIDE1-1,Wide2-1...

Youch! I imagine the APRS network went berserk!

I was impressed that they made that altitude, while in the cold season
with a very respectable payload on board!

Overall, Great luck and Great job!

--Michael
K5NOT

On 11/21/2010 11:38 AM, Steve D wrote:
>
> On the grounds that VE3REX-11 transmitted onto APRS recently, looks
> like they got it back
>
>

9018. Re: [GPSL] Re: ve3rex-11 - APRS settings

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-22 19:56:42 UTC
From: Joe
Topic: 8988 Message: 9018
Attachments: 1 described; binary payloads are missing from this source WARC

What was this respectable payload?

How about the balloon?

or anything that flew?
Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/22/2010 10:33 AM, Michael Willett wrote:
>
>
>
> I looked at some of the APRS numbers to see what ascent rate was used
> and such, and noticed the APRS appears to have been set to smart
> beaconing and WIDE1-1,Wide2-1...
>
> Youch! I imagine the APRS network went berserk!
>
> I was impressed that they made that altitude, while in the cold season
> with a very respectable payload on board!
>
> Overall, Great luck and Great job!
>
> --Michael
> K5NOT
>
>
> On 11/21/2010 11:38 AM, Steve D wrote:
>>
>> On the grounds that VE3REX-11 transmitted onto APRS recently, looks
>> like they got it back
>>
>>
>
>
>
>

9019. Balloon Party/Concert Pics

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-25 15:20:46 UTC
From: Dan Bowen
Topic: 9019 Message: 9019

Hi All,
We had such a great time last Saturday at the White Star fundraising party/concert, with members of the band The Apples in Stereo. Had a few big balloons, lots of science demos, and about 75 people attend. We raised over $700, a big step toward our trans-atlantic flights, it will pay for the balloon envelopes. Enjoy these pics taken by a staff photographer of the local paper:

http://whitestarballoon.com/?p=301

Thanks,
Dan

Thanks,
Dan

9020. NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:00:18 UTC
From: L. Paul Verhage
Topic: 9020 Message: 9020

I would be interested to know if other people can see the
nearsys.comwebsite? I can't see it, but it looks like other people
can.

If you can or can't, I'd be interested to know if you're on Verizon.

Thanks

--
Onwards and Upwards,
Paul

9021. RE: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:15:19 UTC
From: Steve D
Topic: 9020 Message: 9021

Not getting the site here

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: 28 November 2010 00:00
To: gpsl@yahoogroups.com
Subject: [GPSL] NearSys website

I would be interested to know if other people can see the nearsys.com website? I can't see it, but it looks like other people can.

If you can or can't, I'd be interested to know if you're on Verizon.

Thanks

--
Onwards and Upwards,
Paul

9022. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:15:10 UTC
From: Joe
Topic: 9020 Message: 9022
Attachments: 1 described; binary payloads are missing from this source WARC

I get this,

Oops! This link appears broken.

DNS error occurred. Server cannot be found.

And i'm on a local small ISP.Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 11/27/2010 6:00 PM, L. Paul Verhage wrote:
>
>
> I would be interested to know if other people can see the nearsys.com
> <http://nearsys.com> website? I can't see it, but it looks like other
> people can.
> If you can or can't, I'd be interested to know if you're on Verizon.
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9023. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:16:20 UTC
From: Wayne Helms
Topic: 9020 Message: 9023

Paul

I can not see it and i'm on Cox cable

73's
kc5wxc

On Sat, Nov 27, 2010 at 6:00 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I would be interested to know if other people can see the nearsys.comwebsite? I can't see it, but it looks like other people can.
>
> If you can or can't, I'd be interested to know if you're on Verizon.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9024. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:22:51 UTC
From: Mike Bogard
Topic: 9020 Message: 9024

Oops! Google Chrome could not find nearsys.com

9025. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 00:53:06 UTC
From: Pete Lilja
Topic: 9020 Message: 9025

I cannot see it through my local ISP.

On Sat, Nov 27, 2010 at 6:22 PM, Mike Bogard <kd0fw@...> wrote:

>
>
> Oops! Google Chrome could not find nearsys.com
>
>

9026. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 01:14:59 UTC
From: Zack Clobes
Topic: 9020 Message: 9026

The DNS isn't resolving for me on Cox. The domain is still registered
though through late next year.

I'm guessing that the A record somehow got deleted or a server went down
with GoDaddy.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sat, Nov 27, 2010 at 6:53 PM, Pete Lilja <plilja@...> wrote:

>
>
> I cannot see it through my local ISP.
>
>
> On Sat, Nov 27, 2010 at 6:22 PM, Mike Bogard <kd0fw@...> wrote:
>
>>
>>
>> Oops! Google Chrome could not find nearsys.com
>>
>
>
>

9027. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 03:15:32 UTC
From: Mike Manes
Topic: 9020 Message: 9027

Hi Paul,

"Firefox can't find the server at www.nearsys.com."

Either the server's down or DNS can't find it.

I use Qwest DSL.

73 de Mike W5VSI

On 11/27/2010 17:00, L. Paul Verhage wrote:
>
>
> I would be interested to know if other people can see the nearsys.com
> <http://nearsys.com> website? I can't see it, but it looks like other people can.
> If you can or can't, I'd be interested to know if you're on Verizon.
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9028. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 04:27:02 UTC
From: Keith Kaiser
Topic: 9020 Message: 9028

I still can't get to it either Paul.

On Nov 27, 2010, at 6:00 PM, L. Paul Verhage wrote:

>
> I would be interested to know if other people can see the nearsys.com website? I can't see it, but it looks like other people can.
>
> If you can or can't, I'd be interested to know if you're on Verizon.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>

9029. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 05:09:56 UTC
From: HarryM
Topic: 9020 Message: 9029

I use Firefox and it can’t find it.
Tried IE8 same results.
Google search, same result.

9030. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 06:58:37 UTC
From: Greg Williams
Topic: 9020 Message: 9030

Page cannot be displayed.

Sure you're not in trouble with the DHS/ICE folks???

Greg

On Nov 27, 2010, at 7:00 PM, L. Paul Verhage wrote:

>
> I would be interested to know if other people can see the
> nearsys.com website? I can't see it, but it looks like other people
> can.
>
> If you can or can't, I'd be interested to know if you're on Verizon.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>

9031. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 15:49:38 UTC
From: L. Paul Verhage
Topic: 9020 Message: 9031

What is the A Record and how can I go about getting that fixed?

Paul

On Sat, Nov 27, 2010 at 7:14 PM, Zack Clobes <zclobes@...> wrote:

>
>
> The DNS isn't resolving for me on Cox. The domain is still registered
> though through late next year.
>
> I'm guessing that the A record somehow got deleted or a server went down
> with GoDaddy.
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.projecttraveler.org
>
>
>
> On Sat, Nov 27, 2010 at 6:53 PM, Pete Lilja <plilja@...> wrote:
>
>>
>>
>> I cannot see it through my local ISP.
>>
>>
>> On Sat, Nov 27, 2010 at 6:22 PM, Mike Bogard <kd0fw@...> wrote:
>>
>>>
>>>
>>> Oops! Google Chrome could not find nearsys.com
>>>
>>
>>
>>
>
>
>
>

--
Onwards and Upwards,
Paul

9032. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 15:55:33 UTC
From: Mark Conner
Topic: 9020 Message: 9032

If you're hosting with GoDaddy, call their customer service #. I've only had to do it once (was shortly after I signed on with them), but they were extremely helpful.

24/7 Sales & Support (480) 505-8877<http://community.godaddy.com/support/?ci=16292>

73 de Mark N9XTN

On Sun, Nov 28, 2010 at 09:49, L. Paul Verhage <nearsys@...> wrote:

>
>
> What is the A Record and how can I go about getting that fixed?
>
> Paul
>
> On Sat, Nov 27, 2010 at 7:14 PM, Zack Clobes <zclobes@...> wrote:
>
>>
>>
>> The DNS isn't resolving for me on Cox. The domain is still registered
>> though through late next year.
>>
>> I'm guessing that the A record somehow got deleted or a server went down
>> with GoDaddy.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>> www.projecttraveler.org
>>
>>
>>
>> On Sat, Nov 27, 2010 at 6:53 PM, Pete Lilja <plilja@...> wrote:
>>
>>>
>>>
>>> I cannot see it through my local ISP.
>>>
>>>
>>> On Sat, Nov 27, 2010 at 6:22 PM, Mike Bogard <kd0fw@...> wrote:
>>>
>>>>
>>>>
>>>> Oops! Google Chrome could not find nearsys.com
>>>>

>>>
>>>
>>
>>
>>
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9033. Re: [GPSL] NearSys website

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-28 18:30:45 UTC
From: Zack Clobes
Topic: 9020 Message: 9033

The A record is the "database" entry that converts Nearsys.com into the IP address of their server. If it doesn't exist, then PC's everywhere suddenly become clueless. Mark is right, this is most likely an issue with your web host (apparently GoDaddy) - they should be able to fix it for you.

Sometimes you can see intermittent issues right after a change was made because the Internet browser can cache this, the PC can cache this, corporate servers can cache it, and the ISP's servers can cache it. In other words, sometimes you have to just be patient after the fix is put into place.

You should be able to type 'ping nearsys.com' in at a command prompt, and it should return some IP address and try pinging it. If it doesn't, there's probably a DNS problem. If in doubt, reboot your PC and try again to eliminate most of the potential problems on your end.

Zack Clobes, W0ZC
Project: Traveler
www.projecttraveler.org

On Sun, Nov 28, 2010 at 9:55 AM, Mark Conner <mconner1@...> wrote:

>
>
> If you're hosting with GoDaddy, call their customer service #. I've only
> had to do it once (was shortly after I signed on with them), but they were
> extremely helpful.
>
> 24/7 Sales & Support (480) 505-8877<http://community.godaddy.com/support/?ci=16292>
>
> 73 de Mark N9XTN
>
>
> On Sun, Nov 28, 2010 at 09:49, L. Paul Verhage <nearsys@...> wrote:
>
>>
>>
>> What is the A Record and how can I go about getting that fixed?
>>
>> Paul
>>
>> On Sat, Nov 27, 2010 at 7:14 PM, Zack Clobes <zclobes@...> wrote:
>>
>>>
>>>
>>> The DNS isn't resolving for me on Cox. The domain is still registered

>>> though through late next year.
>>>
>>> I'm guessing that the A record somehow got deleted or a server went down
>>> with GoDaddy.
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>>> Zack Clobes, W0ZC
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>>> www.projecttraveler.org
>>>
>>>
>>>
>>> On Sat, Nov 27, 2010 at 6:53 PM, Pete Lilja <plilja@...> wrote:
>>>
>>>>
>>>>
>>>> I cannot see it through my local ISP.
>>>>
>>>>
>>>> On Sat, Nov 27, 2010 at 6:22 PM, Mike Bogard <kd0fw@...> wrote:
>>>>
>>>>>
>>>>>
>>>>> Oops! Google Chrome could not find nearsys.com
>>>>>
>>>>
>>>>
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>>>
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>>>
>>
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>>
>>
>
>

9034. Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 01:53:23 UTC
From: L. Paul Verhage
Topic: 9034 Message: 9034

I didn't see this GPS receiver listed as having being tested yet. However, Argent systems says the firmware in one of these receivers is designed for high altitude. I emailed the manufacturer and they said their only concern was the cold.

Has anyone flown one of these receivers before?

Thanks

--
Onwards and Upwards,
Paul

9035. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 02:05:17 UTC
From: HarryM
Topic: 9034 Message: 9035

Here’s what the spec sheet says about limits...
Operational Limits
Altitude < 18,000m or velocity < 515m/s
(COCOM limit, either may be exceeded but not both)
http://www.softelectronics.ru/docs/gps/GT-320F.pdf

9036. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 02:10:18 UTC
From: Mark Conner
Topic: 9034 Message: 9036

I believe that Scott N1VG (head guy for Argent) has actually flown this unit
to >60 kft.

73 de Mark N9XTN

On Sun, Nov 28, 2010 at 19:53, L. Paul Verhage <nearsys@...> wrote:

>
>
> I didn't see this GPS receiver listed as having being tested yet. However,
> Argent systems says the firmware in one of these receivers is designed for
> high altitude. I emailed the manufacturer and they said their only concern
> was the cold.
>
> Has anyone flown one of these receivers before?
>
> Thanks
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9037. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 03:13:20 UTC
From: Pete Lilja
Topic: 9034 Message: 9037

I bought one of these for HABing. It's hard to beat at $38. I stuck it in a plastic project box from Radio Shack and made a cable to plug in to my OT+ from Argent.

Unfortunately, I have yet to fly mine but Scott from Argent has flown the GPSr in a HAB at least twice. It works.

My understanding is he's developing a small transmitter with TNC using this GPSr.

Pete
KC0GPB

On Sun, Nov 28, 2010 at 7:53 PM, L. Paul Verhage <nearsys@...> wrote:

>
>
> I didn't see this GPS receiver listed as having being tested yet. However,
> Argent systems says the firmware in one of these receivers is designed for
> high altitude. I emailed the manufacturer and they said their only concern
> was the cold.
>
> Has anyone flown one of these receivers before?
>
> Thanks
>
>
> --
> Onwards and Upwards,
> Paul
>
>

9038. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 03:39:29 UTC
From: wb8elk@aol.com
Topic: 9034 Message: 9038

Hi Paul,

I've flown this one several times .... one night flight was at -40 deg C for several hours and it worked fine.... it did seem to be desensed by my transmitter and I had a couple of dropouts....but it did quickly recover each time.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Sun, Nov 28, 2010 7:53 pm
Subject: [GPSL] Unitraq GT-320 GPS Receiver

I didn't see this GPS receiver listed as having being tested yet. However, Argent systems says the firmware in one of these receivers is designed for high altitude. I emailed the manufacturer and they said their only concern was the cold.

Has anyone flown one of these receivers before?

Thanks

--
Onwards and Upwards,
Paul

9039. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 03:41:19 UTC
From: wb8elk@aol.com
Topic: 9034 Message: 9039

Oh...forgot to mention....I've had this one up to 103,000 feet on the flight tests I did with it last Summer.

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: gpsl@...m
Sent: Sun, Nov 28, 2010 7:53 pm
Subject: [GPSL] Unitraq GT-320 GPS Receiver

I didn't see this GPS receiver listed as having being tested yet. However, Argent systems says the firmware in one of these receivers is designed for high altitude. I emailed the manufacturer and they said their only concern was the cold.

Has anyone flown one of these receivers before?

Thanks

--
Onwards and Upwards,
Paul

9040. Re: [GPSL] Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 05:33:12 UTC
From: L. Paul Verhage
Topic: 9034 Message: 9040

Okay, that's what I needed to know. Unitraq says the version I have is their high altitude version. It was easy to put it together and test it on the ground. I just wanted to know if it had been tested above 100,000 feet before I bought another.

The price is really nice if I order 10 of them. My plan is to include it with my flight computer kits.

Paul

On Sun, Nov 28, 2010 at 9:41 PM, <wb8elk@...> wrote:

>
>
> Oh...forgot to mention....I've had this one up to 103,000 feet on the
> flight tests I did with it last Summer.
>
> - Bill WB8ELK
>
>
>
>
>
> -----Original Message-----
> From: L. Paul Verhage <nearsys@...>
> To: gpsl@yahoogroups.com
> Sent: Sun, Nov 28, 2010 7:53 pm
> Subject: [GPSL] Unitraq GT-320 GPS Receiver
>
>
> I didn't see this GPS receiver listed as having being tested yet.
> However, Argent systems says the firmware in one of these receivers is
> designed for high altitude. I emailed the manufacturer and they said their
> only concern was the cold.
>
> Has anyone flown one of these receivers before?
>
> Thanks
>
>
> --
> Onwards and Upwards,
> Paul
>
>
>

>

--
Onwards and Upwards,
Paul

9041. Re: Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 13:04:39 UTC
From: lpcoates
Topic: 9034 Message: 9041

Hi Paul

The data sheet on Scott's web page reads:

"(Note: *Firmware special supports altitude > 25KM with adjusted algorithm for space application, but not for very high dynamic*.
* Not for comerical airplane and land application. If it is used in both cases, large position error may occur due to bad satellite signal.*) "

I'm not sure what their definition of "large" position error is. A ground test, or even better a flight test with a known GPS would probably give you a good idea. It would also give you a great reason to fly!

73, Bruce
VE5BNC

9042. Re: [GPSL] Re: Unitraq GT-320 GPS Receiver

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 15:30:22 UTC
From: L. Paul Verhage
Topic: 9034 Message: 9042

When I first looked into this receiver, I was concerned they might not have set it up for altitudes of 100,000 feet. But after hearing Bill's account, I'm happy with the receiver and feel confident in ordering more.

I do have one for a test and it works well on the ground. I was hoping to put one up for the ultimate test. However, Bill made that unnecessary.

Paul

On Mon, Nov 29, 2010 at 7:04 AM, lpcoates <bruce.coates@...> wrote:

> Hi Paul
>
> The data sheet on Scott's web page reads:
>
> "(Note: *Firmware special supports altitude > 25KM with adjusted algorithm
> for space application, but not for very high dynamic*.
> * Not for comerical airplane and land application. If it is used in both
> cases, large position error may occur due to bad satellite signal.*) "
>
> I'm not sure what their definition of "large" position error is. A ground
> test, or even better a flight test with a known GPS would probably give you
> a good idea. It would also give you a great reason to fly!
>
> 73, Bruce
> VE5BNC
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Onwards and Upwards,
Paul

9043. Fwd: University Satellites Missions and Cubesat Conference Sponsorships

Yahoo group: GPSL (2009 — 2010)
Date: 2010-11-29 15:49:50 UTC
From: Mark Conner
Topic: 9043 Message: 9043

I received this from an ARRL list - thought it might be of interest to some participants here.

73 de Mark N9XTN

---------- Forwarded message ----------
From: ARRL Members Only Web site <memberlist@...>
Date: Mon, Nov 29, 2010 at 09:06
Subject: University Satellites Missions and Cubesat Conference Sponsorships
To: mconner1@...

Joe Murray, KØVTY was kind enough to pass this along to me. Here it is just in case there are any students in the Section who might be interested.

Date: Thu, 25 Nov 2010 10:59:12 +0100
Subject: [amsat-bb] 1st IAA Conference on University Satellites Missions
and Cubesat Conference Sponsorships and Accommodation

Dear all,

we are pleased to announce that ESA has kindly offered ten scholarships for students who will present a paper at the 1st IAA Conference on University Satellites Missions and Cubesat Conference next January. You can find the information at the following link:

ESA scholarships
<
http://www.gaussteam.com/index.php?option=com_content&view=article&id=111&Itemid=214
>

Furthermore, we have reached an agreement with two hotels for the accommodation of the participants. You can find all the information at the following link:

Accommodation
<
http://www.gaussteam.com/index.php?option=com_content&view=article&id=109&Itemid=211
>

We hope that this will encourage students in participating to the Conference.

Best regard

-- Gruppo di Astrodinamica Università degli Studi Sapienza
Via Salaria, 851
00138 Roma
website: www.gaussteam.com
tel. 0039 06 88346436

_____
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satellite program! Subscription settings:
http://amsat.org/mailman/listinfo/amsat-bb

ARRL Nebraska Section
Section Manager: Arthur I Zygielbaum, K0AIZ
k0aiz@...

To unsubscribe from messages, go to:
http://p1k.arrl.org/oo/6d81ed88a318b5f1a52036ec5d986ca1

9044. Launch Opportunity (long range notice)

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-01 16:19:52 UTC
From: L. Paul Verhage
Topic: 9044 Message: 9044

It looks like I'll be launching a weather balloon for teachers at KATS Kamp on Saturday, April 16. The launch site is south of Junction City. I'll have teachers make BalloonSats Friday and track the flight over the internet. I'll be looking for chase crews who can bring the BalloonSats back.

This is just a heads up, I'm not looking for any commentments yet.

--
Onwards and Upwards,
Paul

9045. Launch Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-02 20:34:16 UTC
From: Keith Kaiser
Topic: 9045 Message: 9045

Aeronauts,

As you guys all know there is no requirement to list your flights with us on the <http://www.arhab.org/ARHABlaunchannouncements.html> web sit. But when you do the number of participants in any given launch is increased by several hundreds of users on the site.

I must believe that there are upcoming flights but I have none listed. I know EOSS must have some plans, I know Paul has some plans and I bet Bill has plans. Guys, send me the details using this form <http://www.arhab.org/launches/launches/launch.html> so we can tell the world what we do.

Thanks... Keith

9046. Launch Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-02 20:35:43 UTC
From: Keith Kaiser
Topic: 9045 Message: 9046

Aeronauts,

As you guys all know there is no requirement to list your flights with us on the <http://www.arhab.org/ARHABlaunchannouncements.html> web sit. But when you do the number of participants in any given launch is increased by several hundreds of users on the site.

I must believe that there are upcoming flights but I have none listed. I know EOSS must have some plans, I know Paul has some plans and I bet Bill has plans. Guys, send me the details using this form <http://www.arhab.org/launches/launches/launch.html> so we can tell the world what we do.

Thanks... Keith

9047. Re: [GPSL] Launch Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-02 20:54:21 UTC
From: BASE
Topic: 9045 Message: 9047

Dear friends,
Snow is forecast for Saturday, which means the next flight (number 56) for BASE will be next year. 2010 was a good year with 16 flights and all systems completely recovered. (Special thanks to those that helped on the Scout flights where I stayed in camp.)
I anticipate the first flight in mid to late February 2011. 2011 should include flights with descent on balloon and will also probably have our first hydrogen fills.
Thanks for your support.
Have a Merry Christmas and Happy New Year,Howard, KC9QBN

--- On Thu, 12/2/10, Keith Kaiser <wa0tjt@...> wrote:

From: Keith Kaiser <wa0tjt@...>
Subject: [GPSL] Launch Announcements
To: "gpsl" <GPSL@yahoogroups.com>
Cc: balloonatics@yahoogroups.com, "Balloon_Sked Sked" <Balloon_Sked@yahoogroups.com>, Ballooning@yahoogroups.com
Date: Thursday, December 2, 2010, 3:35 PM

Aeronauts,

As you guys all know there is no requirement to list your flights with us on the <http://www.arhab.org/ARHABlaunchannouncements.html> web sit. But when you do the number of participants in any given launch is increased by several hundreds of users on the site.

I must believe that there are upcoming flights but I have none listed. I know EOSS must have some plans, I know Paul has some plans and I bet Bill has plans. Guys, send me the details using this form <http://www.arhab.org/launches/launches/launch.html> so we can tell the world what we do.

Thanks... Keith

9048. Re: [Balloon_Sked] Launch Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-02 22:20:34 UTC
From: Mike Manes
Topic: 9045 Message: 9048

Hi Keith,

Whenever I've tried to enter a new flight on the arhab.org web site, I can't get past the captcha gate - regardless how I enter the text, it kicks out on a captcha error. I run W2000 & Firefox. However, when I try it on my Mac at work, it works ok with Firefox. Others may have experienced the same problem, which may partially explain the low reporting rate.

73 de Mike W5VSI

On 12/2/2010 13:34, Keith Kaiser wrote:
> Aeronauts,
>
> As you guys all know there is no requirement to list your flights with us on the<http://www.arhab.org/ARHABlaunchannouncements.html> web sit. But when you do the number of participants in any given launch is increased by several hundreds of users on the site.
>
> I must believe that there are upcoming flights but I have none listed. I know EOSS must have some plans, I know Paul has some plans and I bet Bill has plans. Guys, send me the details using this form<http://www.arhab.org/launches/launches/launch.html> so we can tell the world what we do.
>
> Thanks... Keith
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9049. Re: [Balloonatics] Launch Announcements

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-02 22:22:14 UTC
From: Mike Manes
Topic: 9045 Message: 9049

Hi Keith,

Whenever I've tried to enter a new flight on the arhab.org web site, I can't get past the captcha gate - regardless how I enter the text, it kicks out on a captcha error. I run W2000 & Firefox. However, when I try it on my Mac at work, it works ok with Firefox. Others may have experienced the same problem, which may partially explain the low reporting rate.

73 de Mike W5VSI

On 12/2/2010 13:35, Keith Kaiser wrote:
> Aeronauts,
>
> As you guys all know there is no requirement to list your flights with us on the<http://www.arhab.org/ARHABlaunchannouncements.html> web sit. But when you do the number of participants in any given launch is increased by several hundreds of users on the site.
>
> I must believe that there are upcoming flights but I have none listed. I know EOSS must have some plans, I know Paul has some plans and I bet Bill has plans. Guys, send me the details using this form<http://www.arhab.org/launches/launches/launch.html> so we can tell the world what we do.
>
> Thanks... Keith
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9050. BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 04:34:27 UTC
From: L. Paul Verhage
Topic: 9050 Message: 9050

I need to begin thinking about my first research publication. I'm going to start a search on Google Scholar, but I'd be interested to hear from the universities on the list aboiut what they have done in regards to BalloonSats and publications.

I'll teach an introduction to aerospace engineering class this spring and it will make heavy use of BalloonSats. So I have a venue, I just need to come up with a topic.

Any ideas are appreciated.

Thanks, now to Google Scholar.

--
Onwards and Upwards,
Paul

9051. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 15:04:34 UTC
From: James Hannon
Topic: 9050 Message: 9051

Paul,
I would be interested in hearing what research results you find. I see a lot of information on launching and flying balloons but not much on the results of the data taken.
Jim Hannon
http://www.fmtcs.com/web/jmhannon/
42,11.90N,91,39.26W
WB0TXL
-----Original Message-----
From: "L. Paul Verhage" <nearsys@...>
Sent 12/2/2010 10:34:27 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] BalloonSat ResearchI need to begin thinking about my first research publication. I'm going to start a search on Google Scholar, but I'd be interested to hear from the universities on the list aboiut what they have done in regards to BalloonSats and publications.I'll teach an introduction to aerospace engineering class this spring and it will make heavy use of BalloonSats. So I have a venue, I just need to come up with a topic.Any ideas are appreciated.Thanks, now to Google Scholar.
--
Onwards and Upwards,
Paul

9052. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 15:40:20 UTC
From: BASE
Topic: 9050 Message: 9052

Paul,
Personally, I have not yet published anything about high altitude ballooning. I have given oral presentations at different conferences and also had some poster presentations (both mine and from my students). One challenge is to find a suitable journal for any publication. A second issue is the difficulty in obtaining statistically valid data for our experiments. The new effort begun this fall to study electromagnetic showers in lead may lead to a publication, although it could take a few years to get enough data to be confident in our results.
I did a quick search using our Web of Science server through the campus library and it yielded a few results.
These two appear to be potentially relevant.

The high altitude student platform (HASP) for student-built payloads
Author(s): Guzik TG, Wefel JP
Source: NEXT GENERATION OF SCIENTIFIC BALLOON MISSIONS Book Series: ADVANCES IN SPACE RESEARCH Volume: 37 Issue: 11 Pages: 2125-2131 Published: 2006

Comparison of balloon-carried atmospheric motion sensors with Doppler lidar turbulence measurements Author(s): Harrison RG, Heath AM, Hogan RJ, Rogers GW, REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 80 Issue: 2 Article Number: 026108 Published: FEB 2009
I'd also encourage you to post your request for information on the Near Space Network site that you recently joined. There are several academic institutions represented by the members on that site.
Howard

--- On Thu, 12/2/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] BalloonSat Research
To: gpsl@yahoogroups.com
Date: Thursday, December 2, 2010, 11:34 PM

I need to begin thinking about my first research publication. I'm going to start a search on Google Scholar, but I'd be interested to hear from the universities on the list aboiut what they have done in regards to BalloonSats and publications.

I'll teach an introduction to aerospace engineering class this spring and it will make heavy use of BalloonSats. So I have a venue, I just need to come up with a topic.

Any ideas are appreciated.

Thanks, now to Google Scholar.

--
Onwards and Upwards,
Paul

9053. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 16:08:11 UTC
From: BASE
Topic: 9050 Message: 9053

Paul,
I did a little more digging!
I know this article has its roots with the EOSS guys:
Title: AirCore: An Innovative Atmospheric Sampling System
Author(s): Karion A, Sweeney C, Tans P, et al.
Source: JOURNAL OF ATMOSPHERIC AND OCEANIC
TECHNOLOGY Volume: 27 Issue: 11 Pages: 1839-1853 Published: NOV 2010
This article might be another example, although I haven't been able to get to the abstract or the article:
Title: Temperature stratification and altitude ozone variability in the low troposphere from acoustic and balloon sounding
Author(s): Lokoshchenko MA, Shifrin DM
Source: RUSSIAN METEOROLOGY AND
HYDROLOGY Volume: 34 Issue: 2 Pages: 72-82 Published: FEB 2009

Howard
--- On Thu, 12/2/10, L. Paul Verhage <nearsys@...> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] BalloonSat Research
To: gpsl@yahoogroups.com
Date: Thursday, December 2, 2010, 11:34 PM

I need to begin thinking about my first research publication. I'm going to start a search on Google Scholar, but I'd be interested to hear from the universities on the list aboiut what they have done in regards to BalloonSats and publications.

I'll teach an introduction to aerospace engineering class this spring and it will make heavy use of BalloonSats. So I have a venue, I just need to come up with a topic.

Any ideas are appreciated.

Thanks, now to Google Scholar.

--
Onwards and Upwards,
Paul

9054. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 20:15:39 UTC
From: wb8elk@aol.com
Topic: 9050 Message: 9054

Paul,

I'm one of the authors on this paper that was published as part of an IEEE conference proceedings about 10 years ago...topic was using high altitude balloons to characterize solar cells in the stratosphere based on the Wayne State Univ/NASA Glenn Suntracker series of balloons that was launched by Dr. Woodyard KC8MSY from George Flinchbaugh's (WA8HDX SK) farm in Findlay, Ohio that was the site of my first Balloonsat in 1987:

http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=916136

A follow up paper at a more recent IEEE conference that included our own David Snyder KB8PVR:

http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel5%2F9889%2F31426%2F01488263.pdf%3Farnumber%3D1488263&authDecision=-203

So....a target journal would be the IEEE as well as the AIAA (I was a member of the AIAA Scientific Ballooning advisory board in the early 90's).

- Bill WB8ELK

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Thu, Dec 2, 2010 10:34 pm
Subject: [GPSL] BalloonSat Research

I need to begin thinking about my first research publication. I'm going to start a search on Google Scholar, but I'd be interested to hear from the universities on the list aboiut what they have done in regards to BalloonSats and publications.

I'll teach an introduction to aerospace engineering class this spring and it will make heavy use of BalloonSats. So I have a venue, I just need to come up with a topic.

Any ideas are appreciated.

Thanks, now to Google Scholar.

--
Onwards and Upwards,
Paul

9055. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-03 21:12:42 UTC
From: Mike Manes
Topic: 9050 Message: 9055

Hi Howard,

Thanks for digging that up. Actually, the AirCore sampler was developed by
Dr. Peiter Tans of NOAA in Boulder. EOSS just hauls it up into the
stratosphere and gets to its landing site & closes the valve in short order.

We've done 3 or 4 of these flights for NOAA over the past few years.

The AirCore payload weighs in at almost 7 kg, so it flies non-exempt under
a 3000 gm Totex.

73 de Mike W5VSI

On 12/3/2010 09:08, BASE wrote:
>
>
> Paul,
>
> I did a little more digging!
>
> I know this article has its roots with the EOSS guys:
>
> Title: AirCore: An Innovative Atmospheric Sampling System
> <http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1
3&SID=3BJ@A7gkjfCNpFo3Com&page=1&doc=1>
>
> Author(s): Karion A, Sweeney C, Tans P, et al.
> Source: JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY Volume: 27 Issue: 11
> Pages: 1839-1853 Published: NOV 2010
>
> This article might be another example, although I haven't been able to get to
> the abstract or the article:
>
> Title: Temperature stratification and altitude ozone variability in the low
> troposphere from acoustic and balloon sounding
> <http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1
7&SID=3BJ@A7gkjfCNpFo3Com&page=1&doc=1>
>
> Author(s): Lokoshchenko MA, Shifrin DM
> Source: RUSSIAN METEOROLOGY AND HYDROLOGY Volume: 34 Issue: 2 Pages: 72-82
> Published: FEB 2009
>
> Howard
> --- On *Thu, 12/2/10, L. Paul Verhage /<nearsys@...>/*wrote:
>
>

> From: L. Paul Verhage <nearsys@...>
> Subject: [GPSL] BalloonSat Research
> To: gpsl@yahoogroups.com
> Date: Thursday, December 2, 2010, 11:34 PM
>
> I need to begin thinking about my first research publication. I'm going to
> start a search on Google Scholar, but I'd be interested to hear from the
> universities on the list aboiut what they have done in regards to
> BalloonSats and publications.
> I'll teach an introduction to aerospace engineering class this spring and
> it will make heavy use of BalloonSats. So I have a venue, I just need to
> come up with a topic.
> Any ideas are appreciated.
> Thanks, now to Google Scholar.
>
> --
> Onwards and Upwards,
> Paul
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9056. Re: [GPSL] BalloonSat Research

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-04 01:11:08 UTC
From: L. Paul Verhage
Topic: 9050 Message: 9056

I checked the KU library and Google Scholar. Interestingly enough, there were more articles on Google Scholar. Even still, there's not a lot written. I'm a little suprised.

I'm looking more at publications in education journals. So more along the lines of what pupils get out of the experience is what I'll write about. I plan to run the BalloonSats lab of AE360 like students were building satellites. We'll do simlar tests, flight planning, and data analysis. I'll be learning how to use Matlab to model a mission and its results. The text for the labs will be my BalloonSat articles for the Society of Amateur Scientists. By the end of the semester I'd like to edited the articles enough to publish them in a book.

So I need to look at examples of educational research and see how lab classes were analyzed. The organization for engineering education looks like a good start, as does NARST.

I recently joined the Near Space Network like Howard mentioned, but have not had the time to log in and pay everyone a visit. I guess it's time to do that.

Thanks for the links everyone, I'll get on them. I think one thing this does show is that a program with lots of accomplishment and potential isn't discussed much in educational journals. With luck, I'll get pone passed peer review this summer.

Paul

On Fri, Dec 3, 2010 at 3:12 PM, Mike Manes <mrmanes@...> wrote:

> Hi Howard,
>
> Thanks for digging that up. Actually, the AirCore sampler was developed by
> Dr. Peiter Tans of NOAA in Boulder. EOSS just hauls it up into the
> stratosphere and gets to its landing site & closes the valve in short
> order.
>
> We've done 3 or 4 of these flights for NOAA over the past few years.
>
> The AirCore payload weighs in at almost 7 kg, so it flies non-exempt under
> a 3000 gm Totex.
>
> 73 de Mike W5VSI
>
> On 12/3/2010 09:08, BASE wrote:
> >
> >

> > Paul,
> >
> > I did a little more digging!
> >
> > I know this article has its roots with the EOSS guys:
> >
> > Title: AirCore: An Innovative Atmospheric Sampling System
> > <
> http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13
&SID=3BJ@A7gkjfCNpFo3Com&page=1&doc=1
> >
> >
> > Author(s): Karion A, Sweeney C, Tans P, et al.
> > Source: JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY Volume: 27 Issue:
> 11
> > Pages: 1839-1853 Published: NOV 2010
> >
> > This article might be another example, although I haven't been able to
> get to
> > the abstract or the article:
> >
> > Title: Temperature stratification and altitude ozone variability in the
> low
> > troposphere from acoustic and balloon sounding
> > <
> http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=17
&SID=3BJ@A7gkjfCNpFo3Com&page=1&doc=1
> >
> >
> > Author(s): Lokoshchenko MA, Shifrin DM
> > Source: RUSSIAN METEOROLOGY AND HYDROLOGY Volume: 34 Issue: 2 Pages:
> 72-82
> > Published: FEB 2009
> >
> > Howard
> > --- On *Thu, 12/2/10, L. Paul Verhage /<nearsys@...>/*wrote:
> >
> >
> > From: L. Paul Verhage <nearsys@...>
> > Subject: [GPSL] BalloonSat Research
> > To: gpsl@yahoogroups.com
> > Date: Thursday, December 2, 2010, 11:34 PM
> >
> > I need to begin thinking about my first research publication. I'm
> going to
> > start a search on Google Scholar, but I'd be interested to hear from
> the
> > universities on the list aboiut what they have done in regards to
> > BalloonSats and publications.
> > I'll teach an introduction to aerospace engineering class this spring

> and
> > it will make heavy use of BalloonSats. So I have a venue, I just need
> to
> > come up with a topic.
> > Any ideas are appreciated.
> > Thanks, now to Google Scholar.
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> >
> >
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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> ------------------------------------
>
> Yahoo! Groups Links
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Onwards and Upwards,
Paul

9057. The Vivitar DVR 550.

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-05 17:01:48 UTC
From: Mike Bogard
Topic: 9057 Message: 9057

Has anyone used a Vivitar DVR 550 Camcorder in there balloon flights? If so how did it work and run time? Thanks Mike KDØFW

9058. White Star Balloon: Speedball 1

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-14 08:05:22 UTC
From: James Coxon
Topic: 9058 Message: 9058

Dear All,
The White Star Balloon Team are going to attempt to launch their first zero pressure balloon this weekend (18/12/10 - 19/12/10). The main form of communication will be via the onboard satellite modem however they will also be flying a HF transmitter constructed by WB8ELK. This radio transmitter will be tx'ing on 40m and will alternate between RTTY and DominoEX. Potentially the flight will last for a number of days and signal reports will be welcome. The format of the transmitter will be compatible with the dl-fldigi/spacenear.us system where if you can receive the telemetry you run dl-fldigi a modified version of the excellent soundcard software fldigi which will detect the strings, verify and upload them to a server where they will be plotted onto a map at http://spacenear.us/tracker/ . The more people who listen out the better!

The flight details:
* Date: First launch window December 18, 2010
* Time: 6:00AM local time
* Location: SpacePort Indiana, Columbus Municipal Airport, Columbus IN
* Target Float Altitude: 250mb Pressure Altitude (~10350m)

Of course there is still lots to do for the payload etc so there is a chance that the first launch window will be missed.

To get involved with the tracking you'll need an HF radio connected to the sound card on your computer and you'll need to run the dl-fldigi software - see this guide for more info
http://wiki.whitestarballoon.com/doku.php?id=hardware:radio:wb8elkwhitestarn17

The signal should be found at 7.102Mhz USB.

If you are planning to listen out for the balloon flight it would be great if you could send me a quick email to jacoxon@... so that I can judge rough numbers, any problems with the software get in touch.

Disclaimer: While I'm not on the White Star Balloon Team I've volunteered to recruit the HF listeners and coordinate the use of dl-fldigi/spacenear.us

James Coxon
M6JCX
http://www.pegasushabproject.org.uk

9059. Re: White Star Balloon: Speedball 1

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-15 07:42:22 UTC
From: James Coxon
Topic: 9058 Message: 9059

Apologies,
The due to technical issues the balloon launch has been postponed
until after the New Year - I'll start rallying listeners the week
before!

James M6JCX
http://www.pegasushabproject.org.uk

On 14 December 2010 08:00, James Coxon <jacoxon@...> wrote:
> Dear All,
> The White Star Balloon Team are going to attempt to launch their first
> zero pressure balloon this weekend (18/12/10 - 19/12/10). The main
> form of communication will be via the onboard satellite modem however
> they will also be flying a HF transmitter constructed by WB8ELK. This
> radio transmitter will be tx'ing on 40m and will alternate between
> RTTY and DominoEX. Potentially the flight will last for a number of
> days and signal reports will be welcome. The format of the transmitter
> will be compatible with the dl-fldigi/spacenear.us system where if you
> can receive the telemetry you run dl-fldigi a modified version of the
> excellent soundcard software fldigi which will detect the strings,
> verify and upload them to a server where they will be plotted onto a
> map at http://spacenear.us/tracker/ . The more people who listen out
> the better!
>
> The flight details:
> * Date: First launch window December 18, 2010
> * Time: 6:00AM local time
> * Location: SpacePort Indiana, Columbus Municipal Airport, Columbus IN
> * Target Float Altitude: 250mb Pressure Altitude (~10350m)
>
> Of course there is still lots to do for the payload etc so there is a
> chance that the first launch window will be missed.
>
> To get involved with the tracking you'll need an HF radio connected to
> the sound card on your computer and you'll need to run the dl-fldigi
> software - see this guide for more info
> http://wiki.whitestarballoon.com/doku.php?id=hardware:radio:wb8elkwhitestarn17
>
> The signal should be found at 7.102Mhz USB.
>
> If you are planning to listen out for the balloon flight it would be
> great if you could send me a quick email to jacoxon@... so
> that I can judge rough numbers, any problems with the software get in
> touch.
>

> Disclaimer: While I'm not on the White Star Balloon Team I've
> volunteered to recruit the HF listeners and coordinate the use of
> dl-fldigi/spacenear.us
>
> James Coxon
> M6JCX
> http://www.pegasushabproject.org.uk
>

9060. Proper Care Extends Li-Ion Battery Life Page of

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-17 04:14:55 UTC
From: Mike Manes
Topic: 9060 Message: 9060

Nice tutorial on making your Li-ion payload batteries last for
plenty of flights:

http://powerelectronics.com/portable_power_management/battery_charger_ics/proper_care_extends-li-ion-battery-0425/index.html

73 de Mike W5VSI
CTO EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9061. WB8ELK HF balloon test flight on 40m from Huntsville AL Sunday afternoon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-18 23:21:26 UTC
From: wb8elk@aol.com
Topic: 9061 Message: 9061

Date: Sunday Dec. 19th at 4:30 pm CDT.

Falkville, AL: 34.4086, -86.8133

7.077 or 7.102 MHz HF telemetry

DominoEX16, 8-bit ASCII RTTY at 110 or 45 baud, Hellscreiber and CW.

Predicted landing zone is southeast of Atlanta.

Streaming video of the launch: www.batc.tv members streams WB8ELK

This is a test of the HF transmitter that will be used for the White Star trans-Atlantic flights in January.

- Bill WB8ELK

9062. Re: WB8ELK HF balloon test flight on 40m from Huntsville AL Sunday afternoon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 09:40:56 UTC
From: James Coxon
Topic: 9061 Message: 9062

A guide to listening out to this flight can be found here:
http://wiki.whitestarballoon.com/doku.php?id=hardware:radio:wb8elkwhitestarn17#listening_information

The flight path will be plotted on http://spacenear.us/tracker (there is another flight earlier today from the Netherlands as well)

James
M6JCX
http://www.pegasushabproject.org.uk

On 18 December 2010 23:21, <wb8elk@...> wrote:
> Date: Sunday Dec. 19th at 4:30 pm CDT.
>
> Falkville, AL: 34.4086, -86.8133
>
> 7.077 or 7.102 MHz HF telemetry
>
> DominoEX16, 8-bit ASCII RTTY at 110 or 45 baud, Hellscreiber and CW.
>
> Predicted landing zone is southeast of Atlanta.
>
> Streaming video of the launch: www.batc.tv members streams WB8ELK
>
> This is a test of the HF transmitter that will be used for the White Star
> trans-Atlantic flights in January.
>
> - Bill WB8ELK
>
>

9063. Re: [Balloonatics] WB8ELK HF balloon test flight on 40m from Huntsville AL Sunday afternoon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 17:29:03 UTC
From: Joe
Topic: 9061 Message: 9063
Attachments: 1 described; binary payloads are missing from this source WARC

Bill what kind of HELL will it be,

Anyone know?

I'm gonna run both dl-dilfigi and Multipsk to decode all the modes.

again as someone else has asked, any pre flight testing we may hear?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 12/18/2010 5:21 PM, wb8elk@... wrote:
> Date: Sunday Dec. 19th at 4:30 pm CDT.
>
> Falkville, AL: 34.4086, -86.8133
>
> 7.077 or 7.102 MHz HF telemetry
>
> DominoEX16, 8-bit ASCII RTTY at 110 or 45 baud, Hellscreiber and CW.
>
> Predicted landing zone is southeast of Atlanta.
>
> Streaming video of the launch: www.batc.tv members streams WB8ELK
>
> This is a test of the HF transmitter that will be used for the White Star trans-Atlantic flights in January.
>
> - Bill WB8ELK
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
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> Yahoo! Groups Links
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>

9064. Re: [Balloonatics] WB8ELK HF balloon test flight on 40m from Huntsville AL Sunday afternoon

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 17:48:20 UTC
From: Joe
Topic: 9061 Message: 9064
Attachments: 1 described; binary payloads are missing from this source WARC

Just noticed the time CDT? are we not on standard time now?

This is a perfect example of using Universal, GMT, Zulu time. so what
time IS lift off supposed to be?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 12/18/2010 5:21 PM, wb8elk@... wrote:
> Date: Sunday Dec. 19th at 4:30 pm CDT.
>
> Falkville, AL: 34.4086, -86.8133
>
> 7.077 or 7.102 MHz HF telemetry
>
> DominoEX16, 8-bit ASCII RTTY at 110 or 45 baud, Hellscreiber and CW.
>
> Predicted landing zone is southeast of Atlanta.
>
> Streaming video of the launch: www.batc.tv members streams WB8ELK
>
> This is a test of the HF transmitter that will be used for the White Star trans-Atlantic
flights in January.
>
> - Bill WB8ELK
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
>

9065. WB8ELK HF Balloon on 40 meters today updated info

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 18:33:24 UTC
From: wb8elk@aol.com
Topic: 9065 Message: 9065

Launch is at 4:30 pm CST (2230 UTC)...or in BST (Bill Standard Time) that would be anywhere between 4:30 pm and midnight.

I've finalized on 7.077 MHz.....if you tune it in at 7.077 USB, the audio center will be at 1750 Hz.

modes are: DominoEX16, 110 baud ASCII RTTY, Feld-Hell and CW....the Feld-Hell and CW are only every 5 minutes.

The transmissions start with DominoEX at the top of each minute, followed by the RTTY....the Hellscreiber and CW follow the CW every 5 minutes.

Tracking online at: http://spacenear.us/tracker

If you use the dl-FLdigi program to track, you can set it up to update the SpaceNear website with your reception. James M6JCX posted a good tutorial on where to download the program and how to set it up in an earlier post today.l

Streaming video starting at 4:00 pm CST (2200 UTC) at: http://www.batc.tv Member's Streams then WB8ELK

- Bill WB8ELK

9066. Re: [Balloon_Sked] WB8ELK HF Balloon on 40 meters today updated info

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 18:44:10 UTC
From: HarryM
Topic: 9065 Message: 9066

Hi Bill,

Do you have any preference as to which mode you would like me to capture or would you like me to switch between modes?
I might not be able to sit by the rig for the duration.

GLuck & 73!
Harry KC5TRB

9067. Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF Balloon on 40 meters today updated info

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-19 18:47:21 UTC
From: wb8elk@aol.com
Topic: 9065 Message: 9067

Hi Harry,

Whichever mode comes through the best....probably the DominoEX16 if you're not at the rig since it tolerates drifting. I'll be on 7.077 USB....the audio will come in with a center of 1750 Hz.

- Bill WB8ELK

-----Original Message-----
From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Sent: Sun, Dec 19, 2010 12:44 pm
Subject: [GPSL] Re: [Balloon_Sked] WB8ELK HF Balloon on 40 meters today updated info

Hi Bill,

Do you have any preference as to which mode you would like me to capture or would you like me to switch between modes?
I might not be able to sit by the rig for the duration.

GLuck & 73!
Harry KC5TRB

9068. Re: [Ballooning] HABEX Test 3 Launch: 18 December..... Thanks

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-20 22:40:21 UTC
From: Mike Manes
Topic: 9068 Message: 9068

Congratulations, Chris!

Nicely done, and excellent on making the ARHAB record books so early
on in your ballooning career! Further kudos on snappy recovery as well:

http://www.habex.za.net/flights/10-09-25/retreavel/index.html

73 de Mike W5VSI
CTO EOSS

On 12/20/2010 01:34, Chris Gryffenberg wrote:
>
>
> Hi All.
>
> On 18 December the High Altitude Balloon Experiment or HABEX team launched
> it’s third test. To all that followed the data and live video feed on
> www.habex.za.net <http://www.habex.za.net/> thank you for your support.
>
> The flight was a huge success, albeit that a few gremlins did show up. We did
> manage to achieve a new South African altitude record, and for that matter an
> African height record for un unmanned amateur radio balloon flight. Here is
> the packet decoded on APRS.FI at the apex of the flight.
>
> 2010-12-18 08:13:15 UTC:*ZS6SCI-4
> <http://aprs.fi/?c=raw&limit=&call=ZS6SCI-4>*>R7Q904,WIDE2-1,WIDE3-3,qAR,ZS6HJF-14
> <http://aprs.fi/?c=raw&limit=&call=ZS6HJF-14>:`6G_qh\O/&G4}HABEXIII Parrot
> type: location
> srccallsign: ZS6SCI-4
> dstcallsign: R7Q904
> latitude: -27.31733333333333 °
> longitude: 26.72783333333333 °
> course: 264 °
> speed: 105.564 km/h
> altitude: 34882 m
> symboltable: /
> symbolcode: O
> mbits: 101
> posresolution: 18.52 m
> posambiguity: 0
> comment: HABEXIII Parrot
>
> Thanks for your interest and support.
>
> Regards
>

> *Chris Gryffenberg*
> DCES: Electrical Technology
> Director: HAMNET Gauteng South
> *Address:*
> */Gauteng Department of Education/*
> */Room 1722/*
> */111 Commissioner Street/*
> */Johannesburg/*
> */South Africa/*
> */2017/*
>
> *Tel:*
> */+2711 355 0044/*
> *Fax:*
> */+2786 607 8472/*
> *Cell:*
> */+2783 543 5668/*
> *e-mail:*
> */chrisg@... <mailto:chrisg@gpg.gov.za> /*
> *Personal URL:*
> */http://wwww.zs6cog.co.za <http://wwww.zs6cog.co.za/> /*
> *Amateur Radio URL:*
> */http://www.zs6erb.co.za <http://www.zs6erb.co.za/> /*

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9069. Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 14:44:21 UTC
From: L. Paul Verhage
Topic: 9069 Message: 9069

We were clouded out in northeast Kansas. Did anyone get a chance to see the eclipse?

--
Onwards and Upwards,
Paul

9070. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 15:01:08 UTC
From: Joe
Topic: 9069 Message: 9070
Attachments: 1 described; binary payloads are missing from this source WARC

clouds,
But Go Bears!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 12/21/2010 8:44 AM, L. Paul Verhage wrote:
>
>
> We were clouded out in northeast Kansas. Did anyone get a chance to
> see the eclipse?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9071. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 15:02:49 UTC
From: Mark Conner
Topic: 9069 Message: 9071

It was clear here in eastern Nebraska. I got up a took a look outside at 2:30 - took me a little bit to find the moon because it was pretty dark. The northern limb was brighter than the rest.

73 de Mark N9XTN

On Tue, Dec 21, 2010 at 08:44, L. Paul Verhage <nearsys@...> wrote:

>
>
> We were clouded out in northeast Kansas. Did anyone get a chance to see
> the eclipse?
>
> --
> Onwards and Upwards,
> Paul
>
>
>

9072. RE: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:09:19 UTC
From: Rick von Glahn
Topic: 9069 Message: 9072

I waffled back and forth and finally decided to shoot the eclipse. It was fun because, the photos actually came out nicely. Here is a link to the traditional composite photo showing the moon in various phases of the eclipse.

http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/

You need to load the "original" size (10K pixels wide) to really see anything.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, December 21, 2010 7:44 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Lunar Eclipse

We were clouded out in northeast Kansas. Did anyone get a chance to see the eclipse?

--
Onwards and Upwards,
Paul

9073. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:18:18 UTC
From: L. Paul Verhage
Topic: 9069 Message: 9073

I was really hoping to take pictures every 5 seconds and animating it into a movie. Sounds like Nebraska and Colorado had clear shots.

Paul

On Tue, Dec 21, 2010 at 12:09 PM, Rick von Glahn <rick@...> wrote:

>
>
> I waffled back and forth and finally decided to shoot the eclipse. It was
> fun because, the photos actually came out nicely. Here is a link to the
> traditional composite photo showing the moon in various phases of the
> eclipse.
>
>
>
> http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/
>
>
>
> You need to load the “original” size (10K pixels wide) to really see
> anything.
>
>
>
> 73 -- Rick
>
>
>
>
>
>
>
>
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Tuesday, December 21, 2010 7:44 AM
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Lunar Eclipse
>
>
>
>
>
>
> We were clouded out in northeast Kansas. Did anyone get a chance to see
> the eclipse?
>

> --
> Onwards and Upwards,
> Paul
>
>
>
>
>
>

--
Onwards and Upwards,
Paul

9074. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:23:39 UTC
From: HarryM
Topic: 9069 Message: 9074
Attachments: 1 described; binary payloads are missing from this source WARC

Nice sequence Rick!

I did venture out and took a few shots. It was 53 deg, but had very dense atmosphere with fog forming. Had to keep the camera covered between shots. It’s the first time I’ve shot the moon with my Canon SX-200. SO I bracketed up to 10 sec with varying ISO from 200 to 800. I didn’t get my 10” reflector scope out because of the fog. I really would’ve liked to have had my old Nikon F film camera out and hooked up to the scope. Digital, even at 12mp & 12 opt zoom sucks. Film is still my choice! I’ll attach a pic here and see if it goes through.

73 Harry
KC5TRB

9075. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:28:05 UTC
From: Joe
Topic: 9069 Message: 9075
Attachments: 1 described; binary payloads are missing from this source WARC

Now THAT would have been cool!

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 12/21/2010 12:18 PM, L. Paul Verhage wrote:
>
>
> I was really hoping to take pictures every 5 seconds and animating it
> into a movie. Sounds like Nebraska and Colorado had clear shots.
> Paul
>
> On Tue, Dec 21, 2010 at 12:09 PM, Rick von Glahn <rick@...
> <mailto:rick@...>> wrote:
>
>
>
> I waffled back and forth and finally decided to shoot the eclipse.
> It was fun because, the photos actually came out nicely. Here is a
> link to the traditional composite photo showing the moon in
> various phases of the eclipse.
>
> http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/
>
> You need to load the ?original? size (10K pixels wide) to really
> see anything.
>
> 73 -- Rick
>
> *From:*GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On
> Behalf Of *L. Paul Verhage
> *Sent:* Tuesday, December 21, 2010 7:44 AM
> *To:* gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>
> *Subject:* [GPSL] Lunar Eclipse
>
>
>
> We were clouded out in northeast Kansas. Did anyone get a chance
> to see the eclipse?
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> --

> Onwards and Upwards,
> Paul
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> Onwards and Upwards,
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9076. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:28:22 UTC
From: HarryM
Topic: 9069 Message: 9076
Attachments: 1 described; binary payloads are missing from this source WARC

Didn’t realize the Forum changes the pic size. The low res posting doesn’t do it justice. Can’t see the stars.
Here’s the first in the sequence.

9077. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:33:07 UTC
From: HarryM
Topic: 9069 Message: 9077

Ahhhhhh.... I forgot about the little resolution buttons at top left.
Click on “Original” for the full image.

9078. RE: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:34:22 UTC
From: Rick von Glahn
Topic: 9069 Message: 9078

Yep, our skies were close to ideal. There was a super thin layer of cirrus clouds, the kind that leaves a ring around the moon which was evident. I didn't get any photos of that. Too large for the lens I was using and I had all the optics cooled down to ambient and didn't want to go inside and drag out a "hot" lens and heat up the camera a little. Figured everything was equalized to the 18 deg F conditions and didn't want to introduce any variables or foggy pictures into the equation mid eclipse. The haze factor of these ice crystals was extremely low and had a low to no effect on the photos.

I was freezing out there so no video. Course, I took the photos from a tripod, not a telescope mount with tracking capabilities. So, video would have been pretty much impossible without a ton of post processing. I thought it would have been fun to do the video about half way through the event but by then it was WAY too late. Perhaps next time, which looks to be April of 2014 for the US.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, December 21, 2010 11:18 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Lunar Eclipse

I was really hoping to take pictures every 5 seconds and animating it into a movie. Sounds like Nebraska and Colorado had clear shots.

Paul

On Tue, Dec 21, 2010 at 12:09 PM, Rick von Glahn <rick@...> wrote:

I waffled back and forth and finally decided to shoot the eclipse. It was fun because, the photos actually came out nicely. Here is a link to the traditional composite photo showing the moon in various phases of the eclipse.

http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/

You need to load the "original" size (10K pixels wide) to really see anything.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Tuesday, December 21, 2010 7:44 AM
To: gpsl@yahoogroups.com

Subject: [GPSL] Lunar Eclipse

We were clouded out in northeast Kansas. Did anyone get a chance to see the eclipse?

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Onwards and Upwards,
Paul

--
Onwards and Upwards,
Paul

9079. RE: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:39:25 UTC
From: Rick von Glahn
Topic: 9069 Message: 9079

NICE and thanks for mentioning the resolution “button”. I missed that first time viewing.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of HarryM
Sent: Tuesday, December 21, 2010 11:33 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Lunar Eclipse

Ahhhhhh.... I forgot about the little resolution buttons at top left.

Click on “Original” for the full image.

9080. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:43:18 UTC
From: HarryM
Topic: 9069 Message: 9080

I used a tripod and timer and as you can see in the one pic there is star movement so no tracking here either. I wasn’t even sure we’d see anything because it was cloudy at midnight and my 10” scope takes at least a couple hours to normalize. I was planning on using CHDK on my SX-200, but decided just to experiment with manual shots this time to get a basis for a future night script.

9081. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 18:48:21 UTC
From: L. Paul Verhage
Topic: 9069 Message: 9081

That sucks, I'm sure someone else is going to create fanastic animated videos of lunar eclipses before then.

I've produced animated movies of clouds by photographing every five seconds and dumping all the images into MS Movie Maker My minimizing each frame and doubling their speed, you get a high definition, sped up movie of changing clouds.

I was trying to find a clock driven telescope mount, but the clouds here made it moot. Perhaps in 3 years I can try again.

Paul

On Tue, Dec 21, 2010 at 12:34 PM, Rick von Glahn <rick@...> wrote:

>
>
> Yep, our skies were close to ideal. There was a super thin layer of
> cirrus clouds, the kind that leaves a ring around the moon which was
> evident. I didn’t get any photos of that. Too large for the lens I was
> using and I had all the optics cooled down to ambient and didn’t want to go
> inside and drag out a “hot” lens and heat up the camera a little. Figured
> everything was equalized to the 18 deg F conditions and didn’t want to
> introduce any variables or foggy pictures into the equation mid eclipse. The
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> by then it was WAY too late. Perhaps next time, which looks to be April of
> 2014 for the US.
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>
> 73 -- Rick
>
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>

> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Tuesday, December 21, 2010 11:18 AM
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Lunar Eclipse
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> http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/
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> You need to load the “original” size (10K pixels wide) to really see
> anything.
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> 73 -- Rick
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of *L.
> Paul Verhage
> *Sent:* Tuesday, December 21, 2010 7:44 AM
> *To:* gpsl@yahoogroups.com

> *Subject:* [GPSL] Lunar Eclipse
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Onwards and Upwards,
Paul

9082. Re: [GPSL] Lunar Eclipse

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-21 22:13:10 UTC
From: Brenden Geary
Topic: 9069 Message: 9082

Clouded over in California, it was really disappointing.

Brenden Geary
www.BrendenGeary.com

--- On Tue, 12/21/10, L. Paul Verhage <nearsys@gmail.com> wrote:

From: L. Paul Verhage <nearsys@...>
Subject: Re: [GPSL] Lunar Eclipse
To: GPSL@yahoogroups.com
Date: Tuesday, December 21, 2010, 10:48 AM

That sucks, I'm sure someone else is going to create fanastic animated videos of lunar eclipses before then.

I've produced animated movies of clouds by photographing every five seconds and dumping all the images into MS Movie Maker My minimizing each frame and doubling their speed, you get a high definition, sped up movie of changing clouds.

I was trying to find a clock driven telescope mount, but the clouds here made it moot. Perhaps in 3 years I can try again.

Paul

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73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage

Sent: Tuesday, December 21, 2010 11:18 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Lunar Eclipse

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http://www.flickr.com/photos/rickvg/5280190884/sizes/l/in/photostream/

You need to load the “original” size (10K pixels wide) to really see anything.

73 -- Rick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage

Sent: Tuesday, December 21, 2010 7:44 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] Lunar Eclipse

We were clouded out in northeast Kansas. Did anyone get a chance to see the eclipse?

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Onwards and Upwards,
Paul

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Onwards and Upwards,
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Onwards and Upwards,
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9083. Explorer-1

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-22 21:43:13 UTC
From: Les Roblin
Topic: 9083 Message: 9083

Three Rivers Flight Civil Air Patrol is proud to announce our first ever High Altitude Balloon launch. The name of our package is "Explorer-1" and is listed on ARHAB announcements.

The package/flight train is very simple for our first attempt.
1200 gr. Helium filled balloon
Parachute
Radar Reflector
APRS - Garmin 18x LVC GPS, OpenTracker+, PX-777 2 Meter Transceiver
APRS is on 144.39 MHZ/Wide 2-1 using my call sign K7PTZ-11
300 ohm twin-lead J-pole portable antenna
Vivitar Camera modified for auto shutter with a 1900+ photo capacity
MK111 timer set at a 20 second shutter interval

Launch date will be 15 January 2011 from Cloud Country Airport Grape Creek, TX 31.58233 -100.56001 at 0900 CST (1500 UTC). Alternate date is 22 January. If it is necessary to change dates we will post when and where it will be.

Photos will be posted on our website http://3rcs.webs.com/ <http://3rcs.webs.com/> as soon as we can.

73's

Leslie Roblin, 1st Lt CAP
Project Officer

9084. WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 18:20:02 UTC
From: wb8elk@aol.com
Topic: 9084 Message: 9084

Thanks to all for participating in receiving the 40 meter telemetry from Sunday night's HF balloon flight. I logged reception reports from across Alabama, IA, KC area in MO, IA, WI, TX, MI, OK, IL, Ontario as well as reception via internet radios in OH and CT. Thanks to WD5EAE's beverage antenna in TX (as well as W1TXT's internet radio in CT) we received a final report just 190 meters above the ground. That was the good news. The bad news is that it appeared to have landed smack dab in the middle of an artillery shooting range in Fort Stewart just west of Savannah GA.

Sure enough, personnel at the artillery range called me first thing in the morning and told me they had found the payloads and had them in their command center. Fortunately they didn't sound too upset over it. Tim from our group (his son's science fair experiment was onboard) is planning to travel over there to get the payloads from the base personnel. Good thing that they found it since otherwise our payloads would've been target practice....I'll still check for bullet holes when I get things back. I had attached an empty water bottle on the bottom of the 66 foot long wire dipole to hold it straight...I put some coins and a message inside. That's where they saw my phone number, so a stratospheric message in a bottle works as well as one sent out to sea.

Perhaps we should do a Records category for worst landing spot....the candidates for the top 5 so far
(any other suggestions?)

1 - O'Hare International Airport
2 - Nuclear Power plant in IL
3 - Army Artillery shooting range in SC
4 - car windshield on highway in KS

5 - on top of large truck on highway in IN

Honorable mention: 6 - Alligator infested swamp

This test was running only the exciter for the upcoming Trans-Atlantic flight attempts in January.....Sunday's flight was only running about a quarter watt on 40 meters. The Inventek GPS as well as the Multi-Mode tracker operated for hours at -45 deg C so this was a really good cold test of the system. It was all powered by 4 lithium AA Eveready batteries.

The DominoEX well outperformed the RTTY when it got weak....and I received a few nice reports from the Hellscreiber as well.

The combination of dl-FLdigi with it's automatic plotting to the http://spacenear.us/tracker website worked very well and should give us a great way to track the upcoming trans-Atlantic flights,

73s de Bill WB8ELK

9085. Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 18:35:49 UTC
From: Joe
Topic: 9084 Message: 9085
Attachments: 1 described; binary payloads are missing from this source WARC

Congratz Bill!

What did the military dudes think of the whole project?

Joe WB9SBD

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

On 12/23/2010 12:20 PM, wb8elk@... wrote:
>
>
> Thanks to all for participating in receiving the 40 meter telemetry
> from Sunday night's HF balloon flight. I logged reception reports from
> across Alabama, IA, KC area in MO, IA, WI, TX, MI, OK, IL, Ontario as
> well as reception via internet radios in OH and CT. Thanks to WD5EAE's
> beverage antenna in TX (as well as W1TXT's internet radio in CT) we
> received a final report just 190 meters above the ground. That was the
> good news. The bad news is that it appeared to have landed smack dab
> in the middle of an artillery shooting range in Fort Stewart just west
> of Savannah GA.
> Sure enough, personnel at the artillery range called me first thing in
> the morning and told me they had found the payloads and had them in
> their command center. Fortunately they didn't sound too upset over it.
> Tim from our group (his son's science fair experiment was onboard) is
> planning to travel over there to get the payloads from the base
> personnel. Good thing that they found it since otherwise our payloads
> would've been target practice....I'll still check for bullet holes
> when I get things back. I had attached an empty water bottle on the
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9086. Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 19:05:25 UTC
From: Mark Conner
Topic: 9084 Message: 9086

Bill,

Any idea when MMT boards will be available for sale? I'm finally considering getting off my *** and taking the General test soon so I can fly HF.

NSTAR managed to straddle two phases of a 30 kV feed with a J-pole antenna and feedline in 2001.

73 de Mark N9XTN

On Thu, Dec 23, 2010 at 12:20, <wb8elk@...> wrote:

>
>
> Thanks to all for participating in receiving the 40 meter telemetry from
> Sunday night's HF balloon flight. I logged reception reports from
> across Alabama, IA, KC area in MO, IA, WI, TX, MI, OK, IL, Ontario as well
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> antenna in TX (as well as W1TXT's internet radio in CT) we received a final
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> morning and told me they had found the payloads and had them in their
> command center. Fortunately they didn't sound too upset over it. Tim from
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> 73s de Bill WB8ELK
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9087. Re: WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 20:39:12 UTC
From: Alan Sieg WB5RMG
Topic: 9084 Message: 9087

Well, the thanks go to you Bill ..!.. You always find projects like this
to keep us up late and well-entertained. Live video and telemetry ..
Who could ask for much more. AND, it was a good functional test as well.
Be sure to let us know about your next flight (and if possible - give me
more than a 24 hr heads-up, maybe I can help get to launch on time..)..

I've posted a quick piece on this flight : http://wb5rmg.wordpress.com ...

Thanks again to all who contributed to this effort.
/;^)
~~~~~~

> Thanks to all for participating in receiving the 40 meter telemetry from
> Sunday night's HF balloon flight. I logged reception reports from across
> Alabama, IA, KC area in MO, IA, WI, TX, MI, OK, IL, Ontario as well as
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> antenna in TX (as well as W1TXT's internet radio in CT) we received a final
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> shooting range in Fort Stewart just west of Savannah GA.
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> Sure enough, personnel at the artillery range called me first thing in the
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> The combination of dl-FLdigi with it's automatic plotting to the
> http://spacenear.us/tracker website worked very well and should give us a
> great way to track the upcoming trans-Atlantic flights,
>
> 73s de Bill WB8ELK
>

--
Alan Sieg, WB5RMG since 1976
http://wb5rmg.wordpress.com
http://www.linkedin.com/in/alansieg
wb5rmg(at)amsat(dot)org AMSAT#20554

9088. Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 23:11:52 UTC
From: Mike Manes
Topic: 9084 Message: 9088

Hi Bill,

Congrats on a successful test flight, and I hope your HF beacon manages to do as well crossing the drink by 'n by. I did copy the CW, but no joy on Domino or Hell here in CO. Just a G5RV, however.

Excellent news re the recovery. I guess you're lucky that it landed close enough to a road that the folks saw it before the artillery practice began!

Re nasty landing sites:

One of our CU Gateway to Space flights (the one with cockroaches) landed right next to an active missile silo. I guess the folks in there observed all those vehicles with strange appendages and the crown of Birkenstock-shod undergrads storming the site, which prompted the arrival of two black SUVs with gun ports and gov't tags to stop on by. Sure glad we had a Sheriff's LT on the T&R team to 'splain it to 'em!

Another was on a buffalo ranch. Thanks to the rancher for training the recovery team on proper buffalo etiquette :=P.

More recently, we landed about 100 ft from the base of wind power turbine that had 150-ft long blades!

MX HNY es 73 de Mike W5VSI

On 12/23/2010 11:20, wb8elk@... wrote:
>
>
> Thanks to all for participating in receiving the 40 meter telemetry from
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> great way to track the upcoming trans-Atlantic flights,
> 73s de Bill WB8ELK
>
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>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

9089. Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-23 23:13:59 UTC
From: James Coxon
Topic: 9084 Message: 9089

Nearly a disaster landing site:

http://www.flickr.com/photos/jcoxon77/4383328360/in/set-72157623226106480/

James
M6JCX
http://www.pegasushabproject.org.uk

On 23 December 2010 23:11, Mike Manes <mrmanes@...> wrote:

>
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> Hi Bill,
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> Congrats on a successful test flight, and I hope your HF beacon manages to
> do as well crossing the drink by 'n by. I did copy the CW, but no joy on
> Domino or Hell here in CO. Just a G5RV, however.
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> Excellent news re the recovery. I guess you're lucky that it landed close
> enough to a road that the folks saw it before the artillery practice began!
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> storming the site, which prompted the arrival of two black SUVs with gun
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> and gov't tags to stop on by. Sure glad we had a Sheriff's LT on the T&R
> team to 'splain it to 'em!
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> Another was on a buffalo ranch. Thanks to the rancher for training the
> recovery team on proper buffalo etiquette :=P.
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> More recently, we landed about 100 ft from the base of wind power turbine
> that had 150-ft long blades!
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> MX HNY es 73 de Mike W5VSI
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> On 12/23/2010 11:20, wb8elk@... <wb8elk%40aol.com> wrote:
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> > Thanks to all for participating in receiving the 40 meter telemetry from
> > Sunday night's HF balloon flight. I logged reception reports from across
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> Mike Manes mrmanes@... <mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
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9090. Nationwide Organization Again

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-24 03:55:10 UTC
From: Joe
Topic: 9090 Message: 9090
Attachments: 1 described; binary payloads are missing from this source WARC

I'm bringing up this topic again?

Reason stating is Now Google has sent a phone up via a balloon!

While the whatever factor again and have we not discovered that phones
on balloons were illegal did we not?

But the part that makes me nervous is the statement made at the very end
on what Google Plans on doing with this.

http://www.newscientist.com/article/dn19871-google-goes-to-space-by-balloon.html

Joe WB9SBD
Near Space Sciences
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

9091. Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-24 07:46:40 UTC
From: wb8elk@aol.com
Topic: 9084 Message: 9091

Hi James, wow that was a close call for sure....I have a photo somewhere that looks exactly like the "nearly a disaster photo" of yours....mine was dangling about 1 foot above Lake Guntersville from a tree limb 10 feet off shore. Great stuff.

After seeing all the stories, I think we'll need a top 100 worst spots....and Mike, I sure do remember the "how to keep a pack of Buffalo happy" training by the rancher before entering the field for the recovery. As I recall he had a bucket of "Buffalo Treats" that were compressed hay the size of coke cans to distract them if they got too skittish. The most important part of his training was that buffalo when spooked will stampede over anyone in their way and right through miles and miles of barbed wire fences before stopping.

- Bill WB8ELK

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-----Original Message-----
From: James Coxon <jacoxon@...>
To: GPSL@yahoogroups.com
Cc: wb8elk@...; balloonatics@yahoogroups.com; balloon_sked@yahoogroups.com; ka9szx@...; rwilson@...; morgan_st@...; BarryL@hiwaay.net; wb5rmg@...; shane.wilson@...; ed@...
Sent: Thu, Dec 23, 2010 5:13 pm
Subject: Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

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http://www.flickr.com/photos/jcoxon77/4383328360/in/set-72157623226106480/

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More recently, we landed about 100 ft from the base of wind power turbine that had 150-ft long blades!

MX HNY es 73 de Mike W5VSI

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Mike Manes mrmanes@... Tel: 303-979-4899
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9092. Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-24 22:06:18 UTC
From: Robert Rochte
Topic: 9084 Message: 9092

I never received a photo of my balloon that landed across a rural road in Ohio and was described by the local sheriff as looking like "smoke across the road" (it was at night and the translucent envelope of the still-inflated solar Montgolfiere stretched from one side of the road to the other). Fortunately, the payload was just off to the side of the road and was returned unscathed (I collected it from the trunk of the sheriff's patrol car a few days later).

My most scenic recovery photo - after the payload had taken a week-long holiday down the length of Lake Erie - remains this one:

http://3.bp.blogspot.com/_Q-9xDZflyLU/RuGlV6asEGI/AAAAAAAAAA0/0E9_7POCpsI/s1600-h/07Sept2007a.jpg

On a completely unrelated note, I have a part-15 "Hifer" beacon on the air right now, somewhere around 13.556Mhz. It is transmitting "GPA" using QRSS3. If anyone copies it, please let me know!

73,
Robert
KC8UCH

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-378-0525

On Fri, Dec 24, 2010 at 2:46 AM, <wb8elk@...> wrote:

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9093. Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-24 22:46:27 UTC
From: Mark Garrett
Topic: 9084 Message: 9093

Great Photo Robert. Always seal your packages up like they are going to take a bath and sometimes they do even when you do not expect it.

While you are looking for Robert's GPA HiFer, give a listen for my HiFer at 13.563, in CW transmitting SZX.

Mark Garrett

From: Robert Rochte <rrochte@...>
To: GPSL@yahoogroups.com
Cc: jacoxon@...
Sent: Fri, December 24, 2010 4:06:18 PM
Subject: Re: [GPSL] Re: [Balloon_Sked] WB8ELK HF balloon payloads have been recovered

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9094. To: Bubble Wrap Bill, And Everyone Else

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 15:26:57 UTC
From: Joe
Topic: 9094 Message: 9094
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Everyone,

I've used it many many times and got the Idea from Bill ELK about using bubble wrap to insulate a payload. I just came across this stuff and I wonder how much better it may be?

It is a small bubble bubble wrap, but has like a mylar foil on both sides also. so it also block the radiation of heat loss from happening. At a night time flight it has to be better. But day time i wonder how much solar heating through the bubbles we now wouldn't get..

It would be a neat experiment to fly two payloads one with clear bubbles and one with the foil,

do it day and night, hmmm?

It's called Reflectix and used a lot in the HVAC industry, as well as shipping products. They have on their web page examples on how it's much better than styrofoam for heat loss prevention.
Joe WB9SBD

http://pic17.picturetrail.com/VOL836/1216349/8848488/199533748.jpg
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

9095. Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 17:43:17 UTC
From: Jerry Gable
Topic: 9095 Message: 9095

Since late November I have had a program running that extracts balloon flights from the APRS-IS stream.

You can see the preliminary output here: http://www.s3research.com/flightdata/

Except for Christmas weekend there has been at least one detected flight every weekend.

It updates once a minute so you should see it update any active flights.

To keep down the amount of data to process it only looks at packets that use the Balloon or Rocket symbols (letter O and alternate table letter O). To eliminate people driving around in their cars with the balloon symbol and the few hot air balloons, they have to reach 20,000 feet before I tag them as an actual balloon flight.

Now the question is, is this of interest to anyone? Should I continue to work on it? Any suggestions for changes?

Jerry

9096. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 18:06:17 UTC
From: Pete Lilja
Topic: 9095 Message: 9096

Yes! That is an excellent idea. I've often thought it would be fun to have some method to search out balloon flights around the country and this is a good idea.

One thought is that 20K' might be a little high. There will be a lull in the first number of minutes before a HAB flight in identified. And, another thing is that high powered rocket fliers are increasingly using GPS based onboard transmitters to track and find their rockets. More may be using the 70cm band due to the shorter length transmitter antenna but there are 2 meter transmitters such as the Bid Red Bee.<http://www.bigredbee.com/index.htm>
There are rocket launches 'most every weekend around the country, too.

I like what you done!

Pete
KC0GPB

On Mon, Dec 27, 2010 at 11:43 AM, Jerry Gable <jerrygable@...> wrote:

>
>
> Since late November I have had a program running that extracts balloon
> flights from the APRS-IS stream.
>
> You can see the preliminary output here:
> http://www.s3research.com/flightdata/
>
> Except for Christmas weekend there has been at least one detected flight
> every weekend.
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> It updates once a minute so you should see it update any active flights.
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> To keep down the amount of data to process it only looks at packets that
> use the Balloon or Rocket symbols (letter O and alternate table letter O).
> To eliminate people driving around in their cars with the balloon symbol and
> the few hot air balloons, they have to reach 20,000 feet before I tag them
> as an actual balloon flight.
>
> Now the question is, is this of interest to anyone? Should I continue to
> work on it? Any suggestions for changes?
>
> Jerry
>
>

9097. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 17:54:53 UTC
From: Mark Conner
Topic: 9095 Message: 9097

That is a pretty cool exercise in data mining.

Unfortunately many groups still don't use the balloon symbol regularly, esp. on alternate payloads. If you wanted to process a fuller APRS-IS data stream, one could find the other flights with some relatively simple rules. One that comes to mind is any moving station that exceeds 45,000 ft and has a speed less than 200 kts. That should eliminate aircraft and any satellite objects. With a little thought, you may be able to design a APRS-IS filter to reduce the processing load (getting rid of wx data comes to mind).

73 de Mark N9XTN

On Mon, Dec 27, 2010 at 11:43, Jerry Gable <jerrygable@...> wrote:

>
>
> Since late November I have had a program running that extracts balloon
> flights from the APRS-IS stream.
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> You can see the preliminary output here:
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> the few hot air balloons, they have to reach 20,000 feet before I tag them
> as an actual balloon flight.
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> Now the question is, is this of interest to anyone? Should I continue to
> work on it? Any suggestions for changes?
>
> Jerry
>
>
>

9098. RE: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 19:58:02 UTC
From: Steve D
Topic: 9095 Message: 9098

Great idea, I also think 20,000ft is a little high.

A group of us use ANSRVR (similar to CQSRVR) to alert each other to balloon launches, would be handy if your system could send alerts through that.

Steve

G6UIM

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Pete Lilja
Sent: 27 December 2010 18:06
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

Yes! That is an excellent idea. I've often thought it would be fun to have some method to search out balloon flights around the country and this is a good idea.

One thought is that 20K' might be a little high. There will be a lull in the first number of minutes before a HAB flight in identified. And, another thing is that high powered rocket fliers are increasingly using GPS based onboard transmitters to track and find their rockets. More may be using the 70cm band due to the shorter length transmitter antenna but there are 2 meter transmitters such as the Bid <http://www.bigredbee.com/index.htm> Red Bee. There are rocket launches 'most every weekend around the country, too.

I like what you done!

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Except for Christmas weekend there has been at least one detected flight every weekend.

It updates once a minute so you should see it update any active flights.

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eliminate people driving around in their cars with the balloon symbol and the few hot air balloons, they have to reach 20,000 feet before I tag them as an actual balloon flight.

Now the question is, is this of interest to anyone? Should I continue to work on it? Any suggestions for changes?

Jerry

9099. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 20:30:39 UTC
From: Jerry Gable
Topic: 9095 Message: 9099

I did my initial testing with the full APRS-IS data stream and the capture is able to deal with that. A simple filter that would eliminate weather and a few other streams would get the workload down to a reasonable number.

The biggest issue with detecting balloons is the out of order/ duplicate packets. The flights that I have captured all have many duplicates and packets that are out of order by several minutes. Hitting multiple repeaters and i-gates is a problem. This makes detecting points in the flight difficult. I initially tried using 3 out of 5 packets with > 500ft/min rise as the launch marker. I gave up and decided to use the 20K feet limit. My first limit was 15K feet and that added another 50% hits for things that didn't seem to be balloons.

Right now I am keeping all of the packets that I receive in a database. As I gather data I will see if I can come up with a better flight detection algorithm. If nothing else, I could create a "Potential Flight" category that will get dropped if it doesn't make it to the 20K height.

Jerry

From: Jerry Gable <jerrygable@...>
To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
Cc:
Sent: Monday, December 27, 2010 10:43:17 AM
Subject: [GPSL] Extracting Balloon flights from APRS-IS

Since late November I have had a program running that extracts balloon flights from the APRS-IS stream.

You can see the preliminary output here: http://www.s3research.com/flightdata/

Except for Christmas weekend there has been at least one detected flight every weekend.

It updates once a minute so you should see it update any active flights.

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Now the question is, is this of interest to anyone? Should I continue to work on it? Any suggestions for changes?

Jerry

9100. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 20:45:44 UTC
From: Mark Conner
Topic: 9095 Message: 9100

Actually, it may not be problematic to keep the hot-air balloons as trackable on your page (maybe filtered separately). I've always wondered how many hot-air balloons use APRS for tracking. One of these days I'm going to get a local balloonist I've been working with to include regular APRS tracking of his flights - I'd like to know when he's airborne and where he's flying. He's got a ham license but hasn't gotten the equipment yet.

You might also take a look at what aprs.fi does for it's dupe filtering. It seems to do it by comparing the speed derived from two subsequent packets and if it's too high rejects the later one. Probably the site owner can tell you more details. It's not perfect but does a fair job.

73 de Mark N9XTN

On Mon, Dec 27, 2010 at 14:30, Jerry Gable <jerrygable@...> wrote:

>
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> I did my initial testing with the full APRS-IS data stream and the capture
> is able to deal with that. A simple filter that would eliminate weather and
> a few other streams would get the workload down to a reasonable number.
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> feet limit. My first limit was 15K feet and that added another 50% hits for
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> I gather data I will see if I can come up with a better flight detection
> algorithm. If nothing else, I could create a "Potential Flight" category
> that will get dropped if it doesn't make it to the 20K height.
>
> Jerry
>
> *From:* Jerry Gable <jerrygable@...>
> *To:* "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
> *Cc:*
> *Sent:* Monday, December 27, 2010 10:43:17 AM
> *Subject:* [GPSL] Extracting Balloon flights from APRS-IS
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> as an actual balloon flight.
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>
> Jerry
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9101. RE: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-27 21:13:50 UTC
From: DON FRASER
Topic: 9095 Message: 9101

I also hear that some private pilots that are also hams are using APRS so that their family can track them.

Don, WA9WWS

To: GPSL@...m
From: mconner1@...
Date: Mon, 27 Dec 2010 14:45:44 -0600
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

Actually, it may not be problematic to keep the hot-air balloons as trackable on your page (maybe filtered separately). I've always wondered how many hot-air balloons use APRS for tracking. One of these days I'm going to get a local balloonist I've been working with to include regular APRS tracking of his flights - I'd like to know when he's airborne and where he's flying. He's got a ham license but hasn't gotten the equipment yet.

You might also take a look at what aprs.fi does for it's dupe filtering. It seems to do it by comparing the speed derived from two subsequent packets and if it's too high rejects the later one. Probably the site owner can tell you more details. It's not perfect but does a fair job.

73 de Mark N9XTN

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The biggest issue with detecting balloons is the out of order/ duplicate packets. The flights that I have captured all have many duplicates and packets that are out of order by several minutes. Hitting multiple repeaters and i-gates is a problem. This makes detecting points in the flight difficult. I initially tried using 3 out of 5 packets with > 500ft/min rise as the launch marker. I gave up and decided to use the 20K feet limit. My first limit was 15K feet and that added another 50% hits for things that didn't seem to be balloons.

Right now I am keeping all of the packets that I receive in a database. As I gather data I will see if I can come up with a better flight detection algorithm. If nothing else, I could create a "Potential Flight" category that will get dropped if it doesn't make it to the 20K height.

Jerry

From: Jerry Gable <jerrygable@...>
To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
Cc:
Sent: Monday, December 27, 2010 10:43:17 AM
Subject: [GPSL] Extracting Balloon flights from APRS-IS

Since late November I have had a program running that extracts balloon flights from the APRS-IS stream.

You can see the preliminary output here: http://www.s3research.com/flightdata/

Except for Christmas weekend there has been at least one detected flight every weekend.

It updates once a minute so you should see it update any active flights.

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Now the question is, is this of interest to anyone? Should I continue to work on it? Any suggestions for changes?

Jerry

9102. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 17:10:39 UTC
From: HarryM
Topic: 9095 Message: 9102

A couple weeks ago I happened to noticed an APRS station doing 180 mph at 13,000 ft just south of Oklahoma City.
I watched for a couple days as he made his way to Memphis then up to NJ. He originated in Southern Calif. He beaconed
his N-number, it was a Cessna 210 registered to a business in Ca. He got great coverage all across the US. I haven't seen
the plane move since the 11th of Dec.

http://aprs.fi/?call=a%2FN5CAT-6

73 Harry KC5TRB

> I also hear that some private pilots that are also hams are using APRS so that their family can track them.

> Don, WA9WWS

.

9103. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 17:17:17 UTC
From: HarryM
Topic: 9095 Message: 9103

Jerry, if you sorted by the GPS time in the packet, not the time it got to AprsFI would that not solve the out of sequence issue?

73 Harry KC5TRB

The biggest issue with detecting balloons is the out of order/ duplicate packets. The flights that I have captured all have many duplicates and packets that are out of order by several minutes. Hitting multiple repeaters and i-gates is a problem....

9104. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 19:30:35 UTC
From: Jerry Gable
Topic: 9095 Message: 9104

The problem is many packets don't have a timestamp. The only time I get is the one I add when I receive them.

From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Cc:
Sent: Tuesday, December 28, 2010 10:17:17 AM
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

Jerry, if you sorted by the GPS time in the packet, not the time it got to AprsFI would that not solve the out of sequence issue?

73 Harry KC5TRB

The biggest issue with detecting
balloons is the out of order/ duplicate packets. The flights that I have captured all have many duplicates and packets that are out of order by several minutes. Hitting multiple repeaters and i-gates is a problem....

9105. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 21:11:02 UTC
From: Mark Conner
Topic: 9095 Message: 9105

Here's an opportunity to encourage everyone to set their balloon payloads to include hour/minute/second time stamps in their APRS positions. It makes post-flight analysis a lot easier when trying to sort data from multiple sources, and for stations following on APRS-IS to tell what is going on. OpenTracker and TinyTrak can be configured to do this. Here's an example from my car:

N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191727h4107.76N/09554.70W>038/021/A=001054
14.0V
N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191749h4107.86N/09554.59W>077/014/A=001059
14.0V
N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191758h4107.84N/09554.57W>186/014/A=001059
14.0V
N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191810h4107.79N/09554.57W>135/010/A=001062
14.2V

73 de Mark N9XTN

On Tue, Dec 28, 2010 at 13:30, Jerry Gable <jerrygable@...> wrote:

>
>
> The problem is many packets don't have a timestamp. The only time I get is
> the one I add when I receive them.
>
> *From:* HarryM <hhm_74115@...>
> *To:* GPSL@yahoogroups.com
> *Cc:*
> *Sent:* Tuesday, December 28, 2010 10:17:17 AM
>
> *Subject:* Re: [GPSL] Extracting Balloon flights from APRS-IS
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> Jerry, if you sorted by the GPS time in the packet, not the time it got
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> 73 Harry KC5TRB
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> repeaters and i-gates is a problem....

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9106. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 20:16:53 UTC
From: HarryM
Topic: 9095 Message: 9106

If the balloon is putting out RMC or GGA there is a FIX time stamp...

$GPRMC,123519,A,4807.038,N,01131.000,E,022.4,084.4,230394,003.1,W*6A

Where:
RMC Recommended Minimum sentence C
123519 Fix taken at 12:35:19 UTC
A Status A=active or V=Void.
4807.038,N Latitude 48 deg 07.038' N
01131.000,E Longitude 11 deg 31.000' E
022.4 Speed over the ground in knots
084.4 Track angle in degrees True
230394 Date - 23rd of March 1994
003.1,W Magnetic Variation
*6A The checksum data, always begins with *

$GPGGA,123519,4807.038,N,01131.000,E,1,08,0.9,545.4,M,46.9,M,,*47

Where:
GGA Global Positioning System Fix Data
123519 Fix taken at 12:35:19 UTC
4807.038,N Latitude 48 deg 07.038' N
01131.000,E Longitude 11 deg 31.000' E
1 Fix quality: 0 = invalid
1 = GPS fix (SPS)
2 = DGPS fix
3 = PPS fix
4 = Real Time Kinematic
5 = Float RTK
6 = estimated (dead reckoning) (2.3 feature)
7 = Manual input mode
8 = Simulation mode
08 Number of satellites being tracked
0.9 Horizontal dilution of position
545.4,M Altitude, Meters, above mean sea level
46.9,M Height of geoid (mean sea level) above WGS84
ellipsoid
(empty field) time in seconds since last DGPS update
(empty field) DGPS station ID number
*47 the checksum data, always begins with *

> The problem is many packets don't have a timestamp. The only time I get is the one I add when I receive them.

9107. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 22:28:02 UTC
From: BASE
Topic: 9095 Message: 9107

I agree with Mark. Many of our BASE flight APRS transmissions reach the Internet out of order, leading to some amazing flight paths. Having the transmission time stamp included in the data string has been essential to getting the flight data back into proper chronological order.
Howard, KC9QBN

--- On Tue, 12/28/10, Mark Conner <mconner1@...> wrote:

From: Mark Conner <mconner1@...>
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS
To: GPSL@yahoogroups.com
Date: Tuesday, December 28, 2010, 4:11 PM

Here's an opportunity to encourage everyone to set their balloon payloads to include hour/minute/second time stamps in their APRS positions. It makes post-flight analysis a lot easier when trying to sort data from multiple sources, and for stations following on APRS-IS to tell what is going on. OpenTracker and TinyTrak can be configured to do this. Here's an example from my car:

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73 de Mark N9XTN

On Tue, Dec 28, 2010 at 13:30, Jerry Gable <jerrygable@...> wrote:

The problem is many packets don't have a timestamp. The only time I get is the one I add when I receive them.

From: HarryM <hhm_74115@...>

To: GPSL@yahoogroups.com
Cc:
Sent: Tuesday, December 28, 2010 10:17:17 AM

Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

Jerry, if you sorted by the GPS time in the packet, not the time it got to
AprsFI would that not solve the out of sequence issue?

73 Harry KC5TRB

The biggest issue with detecting
balloons is the out of order/ duplicate packets. The flights that I have captured all have many duplicates and packets that are out of order by several minutes. Hitting multiple repeaters and i-gates is a problem....

9108. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 23:46:45 UTC
From: Jerry Gable
Topic: 9095 Message: 9108

Of the 8 flights in my limited database, 5 have timestamps and 3 don't.

I have a big Red Bee tracker and it doesn't have a timestamp. I just asked Greg to add altitude based path switching and he did that quickly so maybe he would be willing to add a timestamp also.

From my point of view the APRS is for tracking. Any data that I am interested in from the balloon I store on the balloon at a much higher data rate so the timestamp is really not required for me.

Jerry

From: BASE <basedepauw@...>
To: GPSL@yahoogroups.com
Cc:
Sent: Tuesday, December 28, 2010 3:28:02 PM
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

I agree with Mark. Many of our BASE flight APRS transmissions reach the Internet out of order, leading to some amazing flight paths. Having the transmission time stamp included in the data string has been essential to getting the flight data back into proper chronological order.

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>>N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191758h4107.84N/09554.57W>186/014/A=001059 14.0V
>>N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191810h4107.79N/09554.57W>135/010/A=001062 14.2V
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>>Cc:
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9109. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-28 23:51:10 UTC
From: Jerry Gable
Topic: 9095 Message: 9109

Most of the packets sent are either APRS position reports or Mic-E packets. Position reports can have a timestamp but it is optional. Mic-E packets do not have a position field.

I haven't seen any that encode the direct GPS packets yet.

From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Cc:
Sent: Tuesday, December 28, 2010 1:16:53 PM
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

If the balloon is putting out RMC or GGA there is a FIX time stamp...

$GPRMC,123519,A,4807.038,N,01131.000,E,022.4,084.4,230394,003.1,W*6A Where: RMC Recommended Minimum sentence C 123519 Fix taken at 12:35:19 UTC A Status A=active or V=Void. 4807.038,N Latitude 48 deg 07.038' N 01131.000,E Longitude 11 deg 31.000' E 022.4 Speed over the ground in knots 084.4 Track angle in degrees True 230394 Date - 23rd of March 1994 003.1,W Magnetic Variation *6A The checksum data, always begins with *

$GPGGA,123519,4807.038,N,01131.000,E,1,08,0.9,545.4,M,46.9,M,,*47 Where: GGA Global Positioning System Fix Data 123519 Fix taken at 12:35:19 UTC 4807.038,N Latitude 48 deg 07.038' N 01131.000,E Longitude 11 deg 31.000' E 1 Fix quality: 0 = invalid 1 = GPS fix (SPS) 2 = DGPS fix 3 = PPS fix 4 = Real Time Kinematic 5 = Float RTK 6 = estimated (dead reckoning) (2.3 feature) 7 = Manual input mode 8 = Simulation mode 08 Number of satellites being tracked 0.9 Horizontal dilution of position 545.4,M Altitude, Meters, above mean sea level 46.9,M Height of geoid (mean sea level) above WGS84 ellipsoid (empty field) time in seconds since last DGPS update (empty field) DGPS station ID number *47 the checksum data, always begins with *

>
The problem is many packets don't have a timestamp. The only time I get is
the one I add when I receive them.

9110. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-29 00:27:35 UTC
From: Jerry Gable
Topic: 9095 Message: 9110

Looking back through my log I came across reports from WSONDE-6 and WSONDE-7 They appear to be objects being sent by DJ7KL and are in the air now.

I am not currently decoding objects but it appears that I need to.

Does anyone know anything about these balloons? One looks like it went from ~1000 ft to 70K feet in a few minutes.

Jerry

From: Jerry Gable <jerrygable@yahoo.com>
To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
Cc:
Sent: Tuesday, December 28, 2010 4:51:10 PM
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

Most of the packets sent are either APRS position reports or Mic-E packets. Position reports can have a timestamp but it is optional. Mic-E packets do not have a position field.

I haven't seen any that encode the direct GPS packets yet.

From: HarryM <hhm_74115@...>
To: GPSL@yahoogroups.com
Cc:
Sent: Tuesday, December 28, 2010 1:16:53 PM
Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

If the balloon is putting out RMC or GGA there is a FIX time stamp...

$GPRMC,123519,A,4807.038,N,01131.000,E,022.4,084.4,230394,003.1,W*6A Where: RMC Recommended Minimum sentence C 123519 Fix taken at 12:35:19 UTC A Status A=active or V=Void. 4807.038,N Latitude 48 deg 07.038' N 01131.000,E Longitude 11 deg 31.000' E 022.4 Speed over the ground in knots 084.4 Track angle in degrees True 230394 Date - 23rd of March 1994 003.1,W Magnetic Variation *6A The checksum data, always begins with *

$GPGGA,123519,4807.038,N,01131.000,E,1,08,0.9,545.4,M,46.9,M,,*47 Where: GGA Global Positioning System Fix Data 123519 Fix taken at 12:35:19 UTC 4807.038,N Latitude 48 deg 07.038' N 01131.000,E Longitude 11 deg 31.000' E 1 Fix quality: 0 = invalid 1 = GPS fix (SPS) 2 = DGPS fix 3 = PPS fix 4 = Real Time Kinematic 5 = Float RTK 6 = estimated (dead reckoning) (2.3 feature) 7 = Manual input mode 8 = Simulation mode 08 Number of satellites being tracked 0.9 Horizontal dilution of position 545.4,M Altitude, Meters, above mean sea level 46.9,M Height of geoid (mean sea level) above WGS84 ellipsoid (empty field) time in seconds since last DGPS update (empty field) DGPS station ID number *47 the checksum data, always begins with *

>
The problem is many packets don't have a timestamp. The only time I get is
the one I add when I receive them.

9111. Re: [GPSL] Extracting Balloon flights from APRS-IS

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-29 01:27:51 UTC
From: Mark Conner
Topic: 9095 Message: 9111

But what if you don't get the payload back? :)

Seriously, though, being able to reconstruct a track after the fact from multiple data sources (including APRS-IS - that's why we fly our backup on 144.39) has helped us narrow our searches and diagnose what happened.

73 de Mark N9XTN

On Tue, Dec 28, 2010 at 17:46, Jerry Gable <jerrygable@...> wrote:

>
>
> Of the 8 flights in my limited database, 5 have timestamps and 3 don't.
>
> I have a big Red Bee tracker and it doesn't have a timestamp. I just asked
> Greg to add altitude based path switching and he did that quickly so maybe
> he would be willing to add a timestamp also.
>
> From my point of view the APRS is for tracking. Any data that I am
> interested in from the balloon I store on the balloon at a much higher data
> rate so the timestamp is really not required for me.
>
> Jerry
>
> *From:* BASE <basedepauw@...>
>
> *To:* GPSL@yahoogroups.com
> *Cc:*
> *Sent:* Tuesday, December 28, 2010 3:28:02 PM
>
> *Subject:* Re: [GPSL] Extracting Balloon flights from APRS-IS
>
>
>
> I agree with Mark. Many of our BASE flight APRS transmissions reach the
> Internet out of order, leading to some amazing flight paths. Having the
> transmission time stamp included in the data string has been essential to
> getting the flight data back into proper chronological order.
>
> Howard, KC9QBN
>
> --- On *Tue, 12/28/10, Mark Conner <mconner1@...>* wrote:
>
>
>
> From: Mark Conner <mconner1@...>
> Subject: Re: [GPSL] Extracting Balloon flights from APRS-IS

> To: GPSL@yahoogroups.com
> Date: Tuesday, December 28, 2010, 4:11 PM
>
>
>
> Here's an opportunity to encourage everyone to set their balloon payloads
> to include hour/minute/second time stamps in their APRS positions. It makes
> post-flight analysis a lot easier when trying to sort data from multiple
> sources, and for stations following on APRS-IS to tell what is going on.
> OpenTracker and TinyTrak can be configured to do this. Here's an example
> from my car:
>
> N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191727h4107.76N/09554.70W>038/021/A=001054
> 14.0V
> N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191749h4107.86N/09554.59W>077/014/A=001059
> 14.0V
> N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191758h4107.84N/09554.57W>186/014/A=001059
> 14.0V
> N9XTN-9>APOTC1,WIDE1-1,WIDE2-1,qAR,KE6DZD:/191810h4107.79N/09554.57W>135/010/A=001062
> 14.2V
>
> 73 de Mark N9XTN
>
> On Tue, Dec 28, 2010 at 13:30, Jerry Gable <jerrygable@...> wrote:
>
>
>
> The problem is many packets don't have a timestamp. The only time I get is
> the one I add when I receive them.
>
> *From:* HarryM <hhm_74115@...>
> *To:* GPSL@yahoogroups.com
> *Cc:*
> *Sent:* Tuesday, December 28, 2010 10:17:17 AM
>
> *Subject:* Re: [GPSL] Extracting Balloon flights from APRS-IS
>
>
>
> Jerry, if you sorted by the GPS time in the packet, not the time it got
> to AprsFI would that not solve the out of sequence issue?
>
> 73 Harry KC5TRB
>
> -----
>
>
> The biggest issue with detecting balloons is the out of order/ duplicate
> packets. The flights that I have captured all have many duplicates and
> packets that are out of order by several minutes. Hitting multiple

> repeaters and i-gates is a problem....
>
>
>
>
>
>
>
>
>
>
>
>

9112. Re: [GPSL] To: Bubble Wrap Bill, And Everyone Else

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-29 05:11:38 UTC
From: wb8elk@aol.com
Topic: 9094 Message: 9112
Attachments: 2 described; binary payloads are missing from this source WARC

Joe....it likely would help keep internal heat inside, particularly for night flights....however, the clear stuff allows a greenhouse effect to occur from the solar radiation during the day and often my payloads stay above freezing throughout the flight with just 3 layers of small-cell bubblewrap. This stuff would be most useful for night flights as long as the foil doesn't detune the antenna or block the signal to the GPS receiver....I'd test for that before flying this stuff. You are right, this is a perfect student experiment to fly this stuff and another temp sensor with clear bubblewrap and plot the difference.

- Bill WB8ELK

-----Original Message-----
From: Joe <nss@...>
To: gpsl <GPSL@yahoogroups.com>
Sent: Mon, Dec 27, 2010 10:26 am
Subject: [GPSL] To: Bubble Wrap Bill, And Everyone Else

Hi Everyone,

I've used it many many times and got the Idea from Bill ELK about using bubble wrap to insulate a payload. I just came across this stuff and I wonder how much better it may be?

It is a small bubble bubble wrap, but has like a mylar foil on both sides also. so it also block the radiation of heat loss from happening. At a night time flight it has to be better. But day time i wonder how much solar heating through the bubbles we now wouldn't get..

It would be a neat experiment to fly two payloads one with clear bubbles and one with the foil,

do it day and night, hmmm?

It's called Reflectix and used a lot in the HVAC industry, as well as shipping products. They have on their web page examples on how it's much better than styrofoam for heat loss prevention.
Joe WB9SBD

http://pic17.picturetrail.com/VOL836/1216349/8848488/199533748.jpg

--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

9113. Anybody know anything about WSONDE or DJ7KL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-29 23:58:36 UTC
From: Jerry Gable
Topic: 9113 Message: 9113

Looking at my data, they appear to have launched 6 balloons over the last 3 days in Belgium.

http://www.s3research.com/flightdata/

2 appear to still be in the air.

9114. Re: [GPSL] Anybody know anything about WSONDE or DJ7KL?

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-30 00:13:11 UTC
From: Mark Conner
Topic: 9113 Message: 9114

These look like radiosondes that someone is recoding into APRS data. Easier to do with their sondes.

73 de Mark N9XTN

Sent via DroidX
On Dec 29, 2010 5:58 PM, "Jerry Gable" <jerrygable@...> wrote:
> Looking at my data, they appear to have launched 6 balloons over the last 3 days in Belgium.
>
> http://www.s3research.com/flightdata/
>
> 2 appear to still be in the air.

9115. Pretty Cool UAV

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-30 14:50:05 UTC
From: Joe
Topic: 9115 Message: 9115
Attachments: 1 described; binary payloads are missing from this source WARC

http://www.gizmag.com/qinetiq-zephyr-world-records-ratified/17396/?utm_source=Gizmag+Subscribers&utm_campaign=a8ba637cc6-UA-2235360-4&utm_medium=email
--

The Original Rolling Ball Clock
Idle Tyme
Idle-Tyme.com
http://www.idle-tyme.com

9116. Fwd: help

Yahoo group: GPSL (2009 — 2010)
Date: 2010-12-30 16:46:36 UTC
From: Keith Kaiser
Topic: 9116 Message: 9116

Hey guys, respond back to Lanena directly. Lets give him more ideas than he know what to do with.

Thanks..

Begin forwarded message:

> From: "Berry, Lanena" <LBERRY1@...>
> Date: December 29, 2010 4:05:35 PM CST
> To: "waOtjt@..." <waOtjt@...>, "wa0tjt@..." <wa0tjt@gmail.com>
> Subject: help
>
> Hello,
> I'm a teacher at Johnston Middle
> School in Houston, Texas. We are teaming up with Prairie View A&M University in order to launch a balloon to take pictures and readings. Do you have any plans available that we could look at? Any help would be appreciated.
> Lanena Berry